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Ty Coon, President of Vice
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1.2 pam 1.3.1-5ubuntu4.3

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1.3 python-stdlib-extensions 3.8.10- 0ubuntu1~20.04

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Found in path(s):

```
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pgen2/driver.py
```

```
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pgen2/driver.py
```

```
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pgen2/driver.py
```

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```
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pgen2/__init__.py
```

```
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pgen2/grammar.py
```

```
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pgen2/pgen.py
```

```
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-
```

extensions-3.8.2/3.7/Lib/lib2to3/pgen2/parse.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pgen2/parse.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pgen2/literals.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pgen2/__init__.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pgen2/literals.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pgen2/pgen.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pgen2/parse.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pgen2/conv.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pgen2/grammar.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pgen2/literals.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pgen2/__init__.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pgen2/conv.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pgen2/conv.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pgen2/grammar.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pgen2/pgen.py
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* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pygram.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_print.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_apply.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/refactor.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/patcomp.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixer_base.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/patcomp.py

- * /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_long.py
- * /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/patcomp.py
- * /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/tests/test_pytree.py
- * /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/tests/pytree_idempotency.py
- * /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_execfile.py
- * /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_long.py
- * /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pytree.py
- * /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pytree.py
- * /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_repr.py
- * /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_exec.py
- * /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixer_base.py
- * /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/refactor.py
- * /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/tests/pytree_idempotency.py
- * /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_ne.py
- * /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_has_key.py
- * /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_print.py
- * /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_execfile.py
- * /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_repr.py
- * /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixer_base.py
- * /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_has_key.py
- * /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_apply.py
- * /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/refactor.py
- * /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/tests/test_pytree.py
- * /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_repr.py

* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_apply.py
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* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_exec.py
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* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/tests/pytree_idempotency.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pygram.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pygram.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_execfile.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_ne.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_has_key.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_exec.py

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```
('binary-only', None,  
"cannot supply both '--source-only' and '--binary-only'")  
'License: ' + self.distribution.get_license(),
```

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* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/distutils/command/bdist_rpm.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/distutils/command/bdist_rpm.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/distutils/command/bdist_rpm.py

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```
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```

```
# A grammar to describe tree matching patterns.  
# Not shown here:
```


- 'TOKEN' stands for any token (leaf node)
- 'any' stands for any node (leaf or interior)
With 'any' we can still specify the sub-structure.

The start symbol is 'Matcher'.

Matcher: Alternatives ENDMARKER

Alternatives: Alternative (' Alternative)*

Alternative: (Unit | NegatedUnit)+

Unit: [NAME '=' (STRING [Repeater]
| NAME [Details] [Repeater]
| '(' Alternatives ')' [Repeater]
| '[' Alternatives '']
)

NegatedUnit: 'not' (STRING | NAME [Details] | '(' Alternatives ')')

Repeater: '*' | '+' | '{' NUMBER [, NUMBER]}'

Details: '<' Alternatives '>'

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* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/PatternGrammar.txt

* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/PatternGrammar.txt

* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/PatternGrammar.txt

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* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Modules/_tkinter.c

* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Modules/_tkinter.c

* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Modules/_tkinter.c

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version.

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- * /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/distutils/command/bdist_wininst.py
- * /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/distutils/command/bdist_msi.py
- * /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/distutils/command/bdist_msi.py
- * /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/distutils/cygwincompiler.py
- * /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/distutils/command/bdist_wininst.py
- * /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/distutils/command/bdist_msi.py
- * /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/distutils/command/bdist_wininst.py
- * /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/distutils/cygwincompiler.py
- * /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/distutils/cygwincompiler.py

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- * /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_standarderror.py
- * /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_map.py
- * /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_xrange.py
- * /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_xrange.py
- * /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_buffer.py
- * /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_dict.py
- * /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_buffer.py
- * /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_dict.py
- * /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_standarderror.py
- * /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_standarderror.py

```
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_xrange.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_map.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_types.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_types.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_dict.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_filter.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_filter.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_buffer.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_types.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_filter.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_map.py
```

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executable.

Found in path(s):

```
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/distutils/spawn.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/distutils/spawn.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/distutils/spawn.py
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```
file.write('License: %s\n' % self.get_license())
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Found in path(s):

```
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/distutils/dist.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/distutils/dist.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/distutils/dist.py
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* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pgen2/tokenize.py

* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pgen2/tokenize.py

1.4 opendns-utils-perl 1.0

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1.5 blinker 1.4+dfsg1-0.3ubuntu1

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1.6 opendns-opendnsforwarder 3.7-24

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* /opt/cola/permits/1251459531_1641806649.61/0/forwarder-va-3-2-1-tar-gz/forwarder-va-3.2.1/vhdtool/vhdtool.c
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```
*
* $FreeBSD: src/lib/libutil/libutil.h,v 1.45.2.3 2009/06/10 14:52:34 des Exp $
*/
```

Found in path(s):

```
* /opt/cola/permits/1251459531_1641806649.61/0/forwarder-va-3-2-1-tar-gz/forwarder-va-3.2.1/vmdktool/expand_number.h
* /opt/cola/permits/1251459531_1641806649.61/0/forwarder-va-3-2-1-tar-gz/forwarder-va-3.2.1/vhdtool/expand_number.h
```

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* /opt/cola/permits/1251459531_1641806649.61/0/forwarder-va-3-2-1-tar-gz/forwarder-va-3.2.1/vmdktool/vmdktool.8
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```
* /opt/cola/permits/1251459531_1641806649.61/0/forwarder-va-3-2-1-tar-gz/forwarder-va-3.2.1/apps/OpenDNS-IronPort/bin/tunnel.py
* /opt/cola/permits/1251459531_1641806649.61/0/forwarder-va-3-2-1-tar-gz/forwarder-va-3.2.1/apps/OpenDNS-
```

IronPort/bin/tunnel_client.py

* /opt/cola/permits/1251459531_1641806649.61/0/forwarder-va-3-2-1-tar-gz/forwarder-va-3.2.1/apps/OpenDNS-

IronPort/lib/logger.py

* /opt/cola/permits/1251459531_1641806649.61/0/forwarder-va-3-2-1-tar-gz/forwarder-va-

3.2.1/cisco_x509_verify_release.py3

* /opt/cola/permits/1251459531_1641806649.61/0/forwarder-va-3-2-1-tar-gz/forwarder-va-3.2.1/apps/OpenDNS-

IronPort/lib/__init__.py

* /opt/cola/permits/1251459531_1641806649.61/0/forwarder-va-3-2-1-tar-gz/forwarder-va-3.2.1/apps/OpenDNS-

IronPort/lib/util.py

* /opt/cola/permits/1251459531_1641806649.61/0/forwarder-va-3-2-1-tar-gz/forwarder-va-

3.2.1/cisco_x509_verify_dev.py3

* /opt/cola/permits/1251459531_1641806649.61/0/forwarder-va-3-2-1-tar-gz/forwarder-va-3.2.1/apps/OpenDNS-

IronPort/lib/settings.py

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3.2.1/vmdktool/vmdktool.c

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* /opt/cola/permits/1251459531_1641806649.61/0/forwarder-va-3-2-1-tar-gz/forwarder-va-3.2.1/vmdktool/expand_number.c
 * /opt/cola/permits/1251459531_1641806649.61/0/forwarder-va-3-2-1-tar-gz/forwarder-va-3.2.1/vhdtool/expand_number.c

1.7 libtext-charwidth-perl 0.04-10

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```
<one line to give the program's name and a brief idea of what it does.>  
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```

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```
<program> Copyright (C) <year> <name of author>  
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
This is free software, and you are welcome to redistribute it  
under certain conditions; type `show c' for details.
```

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Format: <https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/>
Upstream-Name: ubuntu-advantage-script
Source: <https://github.com/CanonicalLtd/ubuntu-advantage-script>

Files: *

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1.9 daemon-tools 0.76-7

1.9.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
/* Public domain. */
```

```
/* sysdep: -sigaction */
```

Found in path(s):

```
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/hassgact.h1
```

No license file was found, but licenses were detected in source scan.

```
/* Public domain. */
```

```
/* sysdep: +mkfifo */
```

```
#define HASMKFIFO 1
```

Found in path(s):

```
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/hasmkfho.h2
```

No license file was found, but licenses were detected in source scan.

```
/* Public domain. */
```

```
/* sysdep: +waitpid */
```

```
#define HASWAITPID 1
```


Found in path(s):

* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/haswaitp.h2

No license file was found, but licenses were detected in source scan.

/* Public domain. */

#ifndef UINT64_H

#define UINT64_H

/* sysdep: -ulong64 */

typedef unsigned long long uint64;

#endif

Found in path(s):

* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/uint64.h1

No license file was found, but licenses were detected in source scan.

/* Public domain. */

/* sysdep: +shortsetgroups */

#define HASSHORTSETGROUPS 1

Found in path(s):

* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/hasshgr.h2

No license file was found, but licenses were detected in source scan.

/* Public domain. */

/* sysdep: -waitpid */

Found in path(s):

* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/haswaitp.h1

No license file was found, but licenses were detected in source scan.

/* Public domain. */

#ifndef UINT64_H

#define UINT64_H

/* sysdep: +ulong64 */

```
typedef unsigned long uint64;
```

```
#endif
```

Found in path(s):

```
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/uint64.h2
```

No license file was found, but licenses were detected in source scan.

```
/* Public domain. */
```

```
/* sysdep: -flock */
```

Found in path(s):

```
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/hasflock.h1
```

No license file was found, but licenses were detected in source scan.

```
/* Public domain. */
```

```
/* sysdep: -sigprocmask */
```

Found in path(s):

```
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/hassgprm.h1
```

No license file was found, but licenses were detected in source scan.

```
/* Public domain. */
```

```
/* sysdep: +flock */
```

```
#define HASFLOCK 1
```

Found in path(s):

```
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/hasflock.h2
```

No license file was found, but licenses were detected in source scan.

```
/* Public domain. */
```

```
/* sysdep: -shortsetgroups */
```

Found in path(s):

```
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/hasshsgr.h1
```

No license file was found, but licenses were detected in source scan.

```
/* Public domain. */
```

Found in path(s):

- * /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/taia_less.c
- * /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/sig_pause.c
- * /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/ndelay.h
- * /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/x86cpuid.c
- * /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/trypoll.c
- * /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/str_start.c
- * /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/ndelay_on.c
- * /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/stralloc_eady.c
- * /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/stralloc.h
- * /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/byte_copy.c
- * /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/trycpp.c
- * /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/strerr_sys.c
- * /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/fd_copy.c
- * /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/byte_rchr.c
- * /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/strerr.h
- * /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/buffer_get.c
- * /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/stralloc_pend.c
- * /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/buffer.c
- * /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/wait_pid.c
- * /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/stralloc_cats.c
- * /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/pathexec_env.c
- * /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/tryulong64.c
- * /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/buffer.h
- * /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/taia.h

* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/open_write.c
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* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/fifo.c
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0.76/src/open_read.c
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* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/prot.h
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/coe.h
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/wait_nohang.c
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* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/prot.c
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* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/stralloc_cat.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/seek_set.c
No license file was found, but licenses were detected in source scan.

/* Public domain. */

/* sysdep: -mkfifo */

Found in path(s):

* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/hasmkffo.h1

No license file was found, but licenses were detected in source scan.

```
/* Public domain. */
```

```
/* sysdep: +sigprocmask */
```

```
#define HASSIGPROCMASK 1
```

Found in path(s):

```
* /opt/cola/permits/1146929125_1617008988.83/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/hassgprm.h2
```

No license file was found, but licenses were detected in source scan.

```
/* Public domain. */
```

```
/* sysdep: +sigaction */
```

```
#define HASSIGACTION 1
```

Found in path(s):

```
* /opt/cola/permits/1146929125_1617008988.83/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/hassgact.h2
```

1.10 libpipeline 1.5.2-2build1

1.10.1 Available under license :

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Version 3, 29 June 2007

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```

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```
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@vskip 20pt plus 1fil  
@end macro
```

```
@macro copyrightstart{ }  
@end macro
```

```
@macro copyrightend{ }  
@end macro
```

```
@node Copyrights and Licenses, , Acknowledgments, Top
```

```
@comment node-name, next, previous, up
```

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@heading Vincent Rijmen, Antoon Bosselaers, Paulo Barreto

AES in libcrypto

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rijndael-alg-fst.c

@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>

@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>

@author Paulo Barreto <paulo.barreto@terra.com.br>

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DES core in libcrypto

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D3DES (V5.09) -

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1.17 oauthlib 3.1.0

1.17.1 Available under license :

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1.18 libjson-perl 4.02000-2

1.18.1 Available under license :

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```
use strict;
use warnings;
use Benchmark qw( cmpthese timethese );

our $VERSION = '1.00';

my $wanttime = $ARGV[1] || 5;

use JSON qw( -support_by_pp -no_export ); # for JSON::PP::Boolean inheritance
use JSON::PP ();
use JSON::XS ();
use utf8;

my $pp = JSON::PP->new->utf8;
my $xs = JSON::XS->new->utf8;

local $/;

my $json = <>;
my $perl = JSON::XS::decode_json $json;
my $result;

printf( "JSON::PP %s\n", JSON::PP->VERSION );
printf( "JSON::XS %s\n", JSON::XS->VERSION );

print "-----\n";
print "->encode()\n";
```

```
print "-----\n";

$result = timethese( -$wanttime,
{
  'JSON::PP' => sub { $pp->encode( $perl ) },
  'JSON::XS' => sub { $xs->encode( $perl ) },
},
'none'
);
cmpthese( $result );
```

```
print "-----\n";
print "->pretty->canonical->encode()\n";
print "-----\n";
```

```
$pp->pretty->canonical;
$xs->pretty->canonical;
```

```
$result = timethese( -$wanttime,
{
  'JSON::PP' => sub { $pp->encode( $perl ) },
  'JSON::XS' => sub { $xs->encode( $perl ) },
},
'none'
);
cmpthese( $result );
```

```
print "-----\n";
```

__END__

=pod

=head1 SYNOPSIS

```
bench_encode.pl json-file
# or
bench_encode.pl json-file minimum-time
```

=head1 DESCRIPTION

L<JSON::PP> and L<JSON::XS> encoding benchmark.

=head1 AUTHOR

makamaka

=head1 LISENCE

This library is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

=cut

Found in path(s):

```
* /opt/cola/permits/1146693972_1616600962.38/0/libjson-perl-4-02000-orig-1-tar-gz/JSON-4.02/eg/bench_encode.pl
```

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=head1 NAME

JSON - JSON (JavaScript Object Notation) encoder/decoder

=head1 SYNOPSIS

```
use JSON; # imports encode_json, decode_json, to_json and from_json.
```

```
# simple and fast interfaces (expect/generate UTF-8)
```

```
$utf8_encoded_json_text = encode_json $perl_hash_or_arrayref;  
$perl_hash_or_arrayref = decode_json $utf8_encoded_json_text;
```

```
# OO-interface
```

```
$json = JSON->new->allow_nonref;
```

```
$json_text = $json->encode( $perl_scalar );  
$perl_scalar = $json->decode( $json_text );
```

```
$pretty_printed = $json->pretty->encode( $perl_scalar ); # pretty-printing
```

=head1 VERSION

4.02

=head1 DESCRIPTION

This module is a thin wrapper for L<JSON::XS>-compatible modules with a few additional features. All the backend modules convert a Perl data structure to a JSON text and vice versa. This module uses L<JSON::XS> by default, and when JSON::XS is not available, falls back on L<JSON::PP>, which is in the Perl core since 5.14. If JSON::PP is not available either, this module then falls back on JSON::backportPP (which is actually JSON::PP in a different .pm file) bundled in the same distribution as this module.

You can also explicitly specify to use L<Cpanel::JSON::XS>, a fork of

JSON::XS by Reini Urban.

All these backend modules have slight incompatibilities between them, including extra features that other modules don't support, but as long as you use only common features (most important ones are described below), migration from backend to backend should be reasonably easy. For details, see each backend module you use.

=head1 CHOOSING BACKEND

This module respects an environmental variable called C<PERL_JSON_BACKEND> when it decides a backend module to use. If this environmental variable is not set, it tries to load JSON::XS, and if JSON::XS is not available, it falls back on JSON::PP, and then JSON::backportPP if JSON::PP is not available either.

If you always don't want it to fall back on pure perl modules, set the variable like this (C<export> may be C<setenv>, C<set> and the likes, depending on your environment):

```
> export PERL_JSON_BACKEND=JSON::XS
```

If you prefer Cpanel::JSON::XS to JSON::XS, then:

```
> export PERL_JSON_BACKEND=Cpanel::JSON::XS,JSON::XS,JSON::PP
```

You may also want to set this variable at the top of your test files, in order not to be bothered with incompatibilities between backends (you need to wrap this in C<BEGIN>, and set before actually C<use>-ing JSON module, as it decides its backend as soon as it's loaded):

```
BEGIN { $ENV{PERL_JSON_BACKEND}='JSON::backportPP'; }  
use JSON;
```

=head1 USING OPTIONAL FEATURES

There are a few options you can set when you C<use> this module. These historical options are only kept for backward compatibility, and should not be used in a new application.

=over

=item -support_by_pp

```
BEGIN { $ENV{PERL_JSON_BACKEND} = 'JSON::XS' }
```

```
use JSON -support_by_pp;
```



```
my $json = JSON->new;
# escape_slash is for JSON::PP only.
$json->allow_nonref->escape_slash->encode("/");
```

With this option, this module loads its pure perl backend along with its XS backend (if available), and lets the XS backend to watch if you set a flag only JSON::PP supports. When you do, the internal JSON::XS object is replaced with a newly created JSON::PP object with the setting copied from the XS object, so that you can use JSON::PP flags (and its slower C<decode>/C<encode> methods) from then on. In other words, this is not something that allows you to hook JSON::XS to change its behavior while keeping its speed. JSON::XS and JSON::PP objects are quite different (JSON::XS object is a blessed scalar reference, while JSON::PP object is a blessed hash reference), and can't share their internals.

To avoid needless overhead (by copying settings), you are advised not to use this option and just to use JSON::PP explicitly when you need JSON::PP features.

```
=item -convert_blessed_universally
```

```
use JSON -convert_blessed_universally;

my $json = JSON->new->allow_nonref->convert_blessed;
my $object = bless {foo => 'bar'}, 'Foo';
$json->encode($object); # => {"foo":"bar"}
```

JSON::XS-compatible backend modules don't encode blessed objects by default (except for their boolean values, which are typically blessed JSON::PP::Boolean objects). If you need to encode a data structure that may contain objects, you usually need to look into the structure and replace objects with alternative non-blessed values, or enable C<convert_blessed> and provide a C<TO_JSON> method for each object's (base) class that may be found in the structure, in order to let the methods replace the objects with whatever scalar values the methods return.

If you need to serialise data structures that may contain arbitrary objects, it's probably better to use other serialisers (such as L<Sereal> or L<Storable> for example), but if you do want to use this module for that purpose, C<-convert_blessed_universally> option may help, which tweaks C<encode> method of the backend to install C<UNIVERSAL::TO_JSON> method (locally) before encoding, so that all the objects that don't have their own C<TO_JSON> method can fall back on the method in the C<UNIVERSAL> namespace. Note that you still need to enable C<convert_blessed> flag to actually encode objects in a data structure, and C<UNIVERSAL::TO_JSON> method installed by this option only converts blessed hash/array references

into their unblest clone (including private keys/values that are not supposed to be exposed). Other blessed references will be converted into null.

This feature is experimental and may be removed in the future.

```
=item -no_export
```

When you don't want to import functional interfaces from a module, you usually supply `C<()>` to its `C<use>` statement.

```
use JSON (); # no functional interfaces
```

If you don't want to import functional interfaces, but you also want to use any of the above options, add `C<-no_export>` to the option list.

```
# no functional interfaces, while JSON::PP support is enabled.  
use JSON -support_by_pp, -no_export;
```

```
=back
```

```
=head1 FUNCTIONAL INTERFACE
```

This section is taken from `JSON::XS`. `C<encode_json>` and `C<decode_json>` are exported by default.

This module also exports `C<to_json>` and `C<from_json>` for backward compatibility. These are slower, and may expect/generate different stuff from what `C<encode_json>` and `C<decode_json>` do, depending on their options. It's better just to use Object-Oriented interfaces than using these two functions.

```
=head2 encode_json
```

```
$json_text = encode_json $perl_scalar
```

Converts the given Perl data structure to a UTF-8 encoded, binary string (that is, the string contains octets only). Croaks on error.

This function call is functionally identical to:

```
$json_text = JSON->new->utf8->encode($perl_scalar)
```

Except being faster.

```
=head2 decode_json
```

```
$perl_scalar = decode_json $json_text
```

The opposite of `C<encode_json>`: expects an UTF-8 (binary) string and tries to parse that as an UTF-8 encoded JSON text, returning the resulting reference. Croaks on error.

This function call is functionally identical to:

```
$perl_scalar = JSON->new->utf8->decode($json_text)
```

Except being faster.

=head2 to_json

```
$json_text = to_json($perl_scalar[, $optional_hashref])
```

Converts the given Perl data structure to a Unicode string by default. Croaks on error.

Basically, this function call is functionally identical to:

```
$json_text = JSON->new->encode($perl_scalar)
```

Except being slower.

You can pass an optional hash reference to modify its behavior, but that may change what `C<to_json>` expects/generates (see `C<ENCODING/CODESET FLAG NOTES>` for details).

```
$json_text = to_json($perl_scalar, {utf8 => 1, pretty => 1})  
# => JSON->new->utf8(1)->pretty(1)->encode($perl_scalar)
```

=head2 from_json

```
$perl_scalar = from_json($json_text[, $optional_hashref])
```

The opposite of `C<to_json>`: expects a Unicode string and tries to parse it, returning the resulting reference. Croaks on error.

Basically, this function call is functionally identical to:

```
$perl_scalar = JSON->new->decode($json_text)
```

You can pass an optional hash reference to modify its behavior, but that may change what `C<from_json>` expects/generates (see `C<ENCODING/CODESET FLAG NOTES>` for details).

```
$perl_scalar = from_json($json_text, {utf8 => 1})  
# => JSON->new->utf8(1)->decode($json_text)
```

=head2 JSON::is_bool

```
$is_boolean = JSON::is_bool($scalar)
```

Returns true if the passed scalar represents either `JSON::true` or `JSON::false`, two constants that act like `C<1>` and `C<0>` respectively and are also used to represent JSON `C<>true>` and `C<>false>` in Perl strings.

See [L<MAPPING>](#), below, for more information on how JSON values are mapped to Perl.

=head1 COMMON OBJECT-ORIENTED INTERFACE

This section is also taken from `JSON::XS`.

The object oriented interface lets you configure your own encoding or decoding style, within the limits of supported formats.

=head2 new

```
$json = JSON->new
```

Creates a new `JSON::XS`-compatible backend object that can be used to de/encode JSON strings. All boolean flags described below are by default `I<disabled>` (with the exception of `C<allow_nonref>`, which defaults to `I<enabled>` since version `C<4.0>`).

The mutators for flags all return the backend object again and thus calls can be chained:

```
my $json = JSON->new->utf8->space_after->encode({a => [1,2]})
=> {"a": [1, 2]}
```

=head2 ascii

```
$json = $json->ascii([$enable])
```

```
$enabled = $json->get_ascii
```

If `C<$enable>` is true (or missing), then the `C<encode>` method will not generate characters outside the code range `C<0..127>` (which is ASCII). Any Unicode characters outside that range will be escaped using either a single `\uXXXX` (BMP characters) or a double `\uHHHH\uLLLL` escape sequence, as per RFC4627. The resulting encoded JSON text can be treated as a native Unicode string, an ascii-encoded, latin1-encoded or UTF-8 encoded string, or any other superset of ASCII.

If C<\$enable> is false, then the C<encode> method will not escape Unicode characters unless required by the JSON syntax or other flags. This results in a faster and more compact format.

See also the section I<ENCODING/CODESET FLAG NOTES> later in this document.

The main use for this flag is to produce JSON texts that can be transmitted over a 7-bit channel, as the encoded JSON texts will not contain any 8 bit characters.

```
JSON->new->ascii(1)->encode([chr 0x10401])  
=> ["\ud801\udc01"]
```

```
=head2 latin1
```

```
$json = $json->latin1([$enable])
```

```
$enabled = $json->get_latin1
```

If C<\$enable> is true (or missing), then the C<encode> method will encode the resulting JSON text as latin1 (or iso-8859-1), escaping any characters outside the code range C<0..255>. The resulting string can be treated as a latin1-encoded JSON text or a native Unicode string. The C<decode> method will not be affected in any way by this flag, as C<decode> by default expects Unicode, which is a strict superset of latin1.

If C<\$enable> is false, then the C<encode> method will not escape Unicode characters unless required by the JSON syntax or other flags.

See also the section I<ENCODING/CODESET FLAG NOTES> later in this document.

The main use for this flag is efficiently encoding binary data as JSON text, as most octets will not be escaped, resulting in a smaller encoded size. The disadvantage is that the resulting JSON text is encoded in latin1 (and must correctly be treated as such when storing and transferring), a rare encoding for JSON. It is therefore most useful when you want to store data structures known to contain binary data efficiently in files or databases, not when talking to other JSON encoders/decoders.

```
JSON->new->latin1->encode(["\x{89}\x{abc}"])  
=> ["\x{89}\u00abc"] # (perl syntax, U+abc escaped, U+89 not)
```

```
=head2 utf8
```

```
$json = $json->utf8([$enable])
```

```
$enabled = $json->get_utf8
```

If `C<$enable>` is true (or missing), then the `C<encode>` method will encode the JSON result into UTF-8, as required by many protocols, while the `C<decode>` method expects to be handled an UTF-8-encoded string. Please note that UTF-8-encoded strings do not contain any characters outside the range `C<0..255>`, they are thus useful for bitwise/binary I/O. In future versions, enabling this option might enable autodetection of the UTF-16 and UTF-32 encoding families, as described in RFC4627.

If `C<$enable>` is false, then the `C<encode>` method will return the JSON string as a (non-encoded) Unicode string, while `C<decode>` expects thus a Unicode string. Any decoding or encoding (e.g. to UTF-8 or UTF-16) needs to be done yourself, e.g. using the Encode module.

See also the section `I<ENCODING/CODESET FLAG NOTES>` later in this document.

Example, output UTF-16BE-encoded JSON:

```
use Encode;
$json = encode "UTF-16BE", JSON->new->encode ($object);
```

Example, decode UTF-32LE-encoded JSON:

```
use Encode;
$object = JSON->new->decode (decode "UTF-32LE", $json);
```

```
=head2 pretty
```

```
    $json = $json->pretty([$enable])
```

This enables (or disables) all of the `C<indent>`, `C<space_before>` and `C<space_after>` (and in the future possibly more) flags in one call to generate the most readable (or most compact) form possible.

```
=head2 indent
```

```
    $json = $json->indent([$enable])
```

```
    $enabled = $json->get_indent
```

If `C<$enable>` is true (or missing), then the `C<encode>` method will use a multiline format as output, putting every array member or object/hash key-value pair into its own line, indenting them properly.

If `C<$enable>` is false, no newlines or indenting will be produced, and the resulting JSON text is guaranteed not to contain any `C<newlines>`.

This setting has no effect when decoding JSON texts.

=head2 space_before

```
$json = $json->space_before([$enable])
```

```
$enabled = $json->get_space_before
```

If C<\$enable> is true (or missing), then the C<encode> method will add an extra optional space before the C<:> separating keys from values in JSON objects.

If C<\$enable> is false, then the C<encode> method will not add any extra space at those places.

This setting has no effect when decoding JSON texts. You will also most likely combine this setting with C<space_after>.

Example, space_before enabled, space_after and indent disabled:

```
{"key" : "value" }
```

=head2 space_after

```
$json = $json->space_after([$enable])
```

```
$enabled = $json->get_space_after
```

If C<\$enable> is true (or missing), then the C<encode> method will add an extra optional space after the C<:> separating keys from values in JSON objects and extra whitespace after the C<,> separating key-value pairs and array members.

If C<\$enable> is false, then the C<encode> method will not add any extra space at those places.

This setting has no effect when decoding JSON texts.

Example, space_before and indent disabled, space_after enabled:

```
{"key": "value" }
```

=head2 relaxed

```
$json = $json->relaxed([$enable])
```

```
$enabled = $json->get_relaxed
```

If C<\$enable> is true (or missing), then C<decode> will accept some extensions to normal JSON syntax (see below). C<encode> will not be affected in any way. I<Be aware that this option makes you accept invalid

JSON texts as if they were valid!>. I suggest only to use this option to parse application-specific files written by humans (configuration files, resource files etc.)

If C<\$enable> is false (the default), then C<decode> will only accept valid JSON texts.

Currently accepted extensions are:

=over 4

=item * list items can have an end-comma

JSON I<separates> array elements and key-value pairs with commas. This can be annoying if you write JSON texts manually and want to be able to quickly append elements, so this extension accepts comma at the end of such items not just between them:

```
[
  1,
  2, <- this comma not normally allowed
]
{
  "k1": "v1",
  "k2": "v2", <- this comma not normally allowed
}
```

=item * shell-style '#'-comments

Whenever JSON allows whitespace, shell-style comments are additionally allowed. They are terminated by the first carriage-return or line-feed character, after which more white-space and comments are allowed.

```
[
  1, # this comment not allowed in JSON
  # neither this one...
]
```

=back

=head2 canonical

```
$json = $json->canonical([$enable])
```

```
$enabled = $json->get_canonical
```

If C<\$enable> is true (or missing), then the C<encode> method will output JSON objects by sorting their keys. This is adding a comparatively high overhead.

If `C<$enable>` is false, then the `C<encode>` method will output key-value pairs in the order Perl stores them (which will likely change between runs of the same script, and can change even within the same run from 5.18 onwards).

This option is useful if you want the same data structure to be encoded as the same JSON text (given the same overall settings). If it is disabled, the same hash might be encoded differently even if contains the same data, as key-value pairs have no inherent ordering in Perl.

This setting has no effect when decoding JSON texts.

This setting has currently no effect on tied hashes.

```
=head2 allow_nonref
```

```
$json = $json->allow_nonref([$enable])
```

```
$enabled = $json->get_allow_nonref
```

Unlike other boolean options, this option is enabled by default beginning with version `C<4.0>`.

If `C<$enable>` is true (or missing), then the `C<encode>` method can convert a non-reference into its corresponding string, number or null JSON value, which is an extension to RFC4627. Likewise, `C<decode>` will accept those JSON values instead of croaking.

If `C<$enable>` is false, then the `C<encode>` method will croak if it isn't passed an arrayref or hashref, as JSON texts must either be an object or array. Likewise, `C<decode>` will croak if given something that is not a JSON object or array.

Example, encode a Perl scalar as JSON value with enabled `C<allow_nonref>`, resulting in an invalid JSON text:

```
JSON->new->allow_nonref->encode ("Hello, World!")  
=> "Hello, World!"
```

```
=head2 allow_unknown
```

```
$json = $json->allow_unknown([$enable])
```

```
$enabled = $json->get_allow_unknown
```

If `C<$enable>` is true (or missing), then `C<encode>` will `I<not>` throw an exception when it encounters values it cannot represent in JSON (for

example, filehandles) but instead will encode a JSON C<null> value. Note that blessed objects are not included here and are handled separately by c<allow_blessed>.

If C<\$enable> is false (the default), then C<encode> will throw an exception when it encounters anything it cannot encode as JSON.

This option does not affect C<decode> in any way, and it is recommended to leave it off unless you know your communications partner.

```
=head2 allow_blessed
```

```
$json = $json->allow_blessed([$enable])
```

```
$enabled = $json->get_allow_blessed
```

See L<OBJECT SERIALISATION> for details.

If C<\$enable> is true (or missing), then the C<encode> method will not barf when it encounters a blessed reference that it cannot convert otherwise. Instead, a JSON C<null> value is encoded instead of the object.

If C<\$enable> is false (the default), then C<encode> will throw an exception when it encounters a blessed object that it cannot convert otherwise.

This setting has no effect on C<decode>.

```
=head2 convert_blessed
```

```
$json = $json->convert_blessed([$enable])
```

```
$enabled = $json->get_convert_blessed
```

See L<OBJECT SERIALISATION> for details.

If C<\$enable> is true (or missing), then C<encode>, upon encountering a blessed object, will check for the availability of the C<TO_JSON> method on the object's class. If found, it will be called in scalar context and the resulting scalar will be encoded instead of the object.

The C<TO_JSON> method may safely call die if it wants. If C<TO_JSON> returns other blessed objects, those will be handled in the same way. C<TO_JSON> must take care of not causing an endless recursion cycle (== crash) in this case. The name of C<TO_JSON> was chosen because other methods called by the Perl core (== not by the user of the object) are usually in upper case letters and to avoid collisions with any C<to_json> function or method.

If `C<$enable>` is false (the default), then `C<encode>` will not consider this type of conversion.

This setting has no effect on `C<decode>`.

=head2 allow_tags (since version 3.0)

```
$json = $json->allow_tags([$enable])
```

```
$enabled = $json->get_allow_tags
```

See [L<OBJECT SERIALISATION>](#) for details.

If `C<$enable>` is true (or missing), then `C<encode>`, upon encountering a blessed object, will check for the availability of the `C<FREEZE>` method on the object's class. If found, it will be used to serialise the object into a nonstandard tagged JSON value (that JSON decoders cannot decode).

It also causes `C<decode>` to parse such tagged JSON values and deserialise them via a call to the `C<THAW>` method.

If `C<$enable>` is false (the default), then `C<encode>` will not consider this type of conversion, and tagged JSON values will cause a parse error in `C<decode>`, as if tags were not part of the grammar.

=head2 boolean_values (since version 4.0)

```
$json->boolean_values([$false, $true])
```

```
($false, $true) = $json->get_boolean_values
```

By default, JSON booleans will be decoded as overloaded `C<$JSON::false>` and `C<$JSON::true>` objects.

With this method you can specify your own boolean values for decoding - on decode, JSON `C<false>` will be decoded as a copy of `C<$false>`, and JSON `C<true>` will be decoded as `C<$true>` ("copy" here is the same thing as assigning a value to another variable, i.e. `C<$copy = $false>`).

This is useful when you want to pass a decoded data structure directly to other serialisers like `YAML`, `Data::MessagePack` and so on.

Note that this works only when you `C<decode>`. You can set incompatible boolean objects (like `L<boolean>`), but when you `C<encode>` a data structure with such boolean objects, you still need to enable `C<convert_blessed>` (and add a `C<TO_JSON>` method if necessary).

Calling this method without any arguments will reset the booleans to their default values.

C<get_boolean_values> will return both C<\$false> and C<\$true> values, or the empty list when they are set to the default.

```
=head2 filter_json_object
```

```
$json = $json->filter_json_object([$coderef])
```

When C<\$coderef> is specified, it will be called from C<decode> each time it decodes a JSON object. The only argument is a reference to the newly-created hash. If the code references returns a single scalar (which need not be a reference), this value (or rather a copy of it) is inserted into the deserialised data structure. If it returns an empty list (NOTE: I<not> C<undef>, which is a valid scalar), the original deserialised hash will be inserted. This setting can slow down decoding considerably.

When C<\$coderef> is omitted or undefined, any existing callback will be removed and C<decode> will not change the deserialised hash in any way.

Example, convert all JSON objects into the integer 5:

```
my $js = JSON->new->filter_json_object(sub { 5 });
# returns [5]
$js->decode('{}');
# returns 5
$js->decode '{"a":1, "b":2}');
```

```
=head2 filter_json_single_key_object
```

```
$json = $json->filter_json_single_key_object($key [=> $coderef])
```

Works remotely similar to C<filter_json_object>, but is only called for JSON objects having a single key named C<\$key>.

This C<\$coderef> is called before the one specified via C<filter_json_object>, if any. It gets passed the single value in the JSON object. If it returns a single value, it will be inserted into the data structure. If it returns nothing (not even C<undef> but the empty list), the callback from C<filter_json_object> will be called next, as if no single-key callback were specified.

If C<\$coderef> is omitted or undefined, the corresponding callback will be disabled. There can only ever be one callback for a given key.

As this callback gets called less often than the C<filter_json_object> one, decoding speed will not usually suffer as much. Therefore, single-key objects make excellent targets to serialise Perl objects into, especially as single-key JSON objects are as close to the type-tagged value concept as JSON gets (it's basically an ID/VALUE tuple). Of course, JSON does not support this in any way, so you need to make sure your data never looks like a serialised Perl hash.

Typical names for the single object key are C<__class_whatever__>, or C<\$_dollars_are_rarely_used_\$> or C<{}ugly_brace_placement>, or even things like C<__class_md5sum(classname)__>, to reduce the risk of clashing with real hashes.

Example, decode JSON objects of the form C<< { "__widget__" => <id> } >> into the corresponding C<< \$WIDGET{<id>} >> object:

```
# return whatever is in $WIDGET{5}:
JSON
->new
->filter_json_single_key_object (__widget__ => sub {
    $WIDGET{ $_[0] }
})
->decode ('{"__widget__": 5')

# this can be used with a TO_JSON method in some "widget" class
# for serialisation to json:
sub WidgetBase::TO_JSON {
    my ($self) = @_;

    unless ($self->{id}) {
        $self->{id} = ..get..some..id..;
        $WIDGET{$self->{id}} = $self;
    }

    { __widget__ => $self->{id} }
}

=head2 max_depth

$json = $json->max_depth([$maximum_nesting_depth])

$max_depth = $json->get_max_depth
```

Sets the maximum nesting level (default C<512>) accepted while encoding or decoding. If a higher nesting level is detected in JSON text or a Perl data structure, then the encoder and decoder will stop and croak at that point.

Nesting level is defined by number of hash- or arrayrefs that the encoder needs to traverse to reach a given point or the number of C<{> or C<[> characters without their matching closing parenthesis crossed to reach a given character in a string.

Setting the maximum depth to one disallows any nesting, so that ensures that the object is only a single hash/object or array.

If no argument is given, the highest possible setting will be used, which is rarely useful.

See L<JSON::XS/SECURITY CONSIDERATIONS> for more info on why this is useful.

```
=head2 max_size
```

```
$json = $json->max_size([$maximum_string_size])
```

```
$max_size = $json->get_max_size
```

Set the maximum length a JSON text may have (in bytes) where decoding is being attempted. The default is C<0>, meaning no limit. When C<decode> is called on a string that is longer than this many bytes, it will not attempt to decode the string but throw an exception. This setting has no effect on C<encode> (yet).

If no argument is given, the limit check will be deactivated (same as when C<0> is specified).

See L<JSON::XS/SECURITY CONSIDERATIONS> for more info on why this is useful.

```
=head2 encode
```

```
$json_text = $json->encode($perl_scalar)
```

Converts the given Perl value or data structure to its JSON representation. Croaks on error.

```
=head2 decode
```

```
$perl_scalar = $json->decode($json_text)
```

The opposite of C<encode>: expects a JSON text and tries to parse it, returning the resulting simple scalar or reference. Croaks on error.

```
=head2 decode_prefix
```

```
($perl_scalar, $characters) = $json->decode_prefix($json_text)
```

This works like the `C<decode>` method, but instead of raising an exception when there is trailing garbage after the first JSON object, it will silently stop parsing there and return the number of characters consumed so far.

This is useful if your JSON texts are not delimited by an outer protocol and you need to know where the JSON text ends.

```
JSON->new->decode_prefix("[1] the tail")  
=> ([1], 3)
```

=head1 ADDITIONAL METHODS

The following methods are for this module only.

=head2 backend

```
$backend = $json->backend
```

Since 2.92, `C<backend>` method returns an abstract backend module used currently, which should be `JSON::Backend::XS` (which inherits `JSON::XS` or `Cpanel::JSON::XS`), or `JSON::Backend::PP` (which inherits `JSON::PP`), not to monkey-patch the actual backend module globally.

If you need to know what is used actually, use `C<isa>`, instead of string comparison.

=head2 is_xs

```
$boolean = $json->is_xs
```

Returns true if the backend inherits `JSON::XS` or `Cpanel::JSON::XS`.

=head2 is_pp

```
$boolean = $json->is_pp
```

Returns true if the backend inherits `JSON::PP`.

=head2 property

```
$settings = $json->property()
```

Returns a reference to a hash that holds all the common flag settings.

```
$json = $json->property('utf8' => 1)  
$value = $json->property('utf8') # 1
```

You can use this to get/set a value of a particular flag.

=head2 boolean

```
$boolean_object = JSON->boolean($scalar)
```

Returns `$JSON::true` if `$scalar` contains a true value, `$JSON::false` otherwise. You can use this as a full-qualified function (`C<JSON::boolean($scalar)>`).

=head1 INCREMENTAL PARSING

This section is also taken from `JSON::XS`.

In some cases, there is the need for incremental parsing of JSON texts. While this module always has to keep both JSON text and resulting Perl data structure in memory at one time, it does allow you to parse a JSON stream incrementally. It does so by accumulating text until it has a full JSON object, which it then can decode. This process is similar to using `C<decode_prefix>` to see if a full JSON object is available, but is much more efficient (and can be implemented with a minimum of method calls).

This module will only attempt to parse the JSON text once it is sure it has enough text to get a decisive result, using a very simple but truly incremental parser. This means that it sometimes won't stop as early as the full parser, for example, it doesn't detect mismatched parentheses. The only thing it guarantees is that it starts decoding as soon as a syntactically valid JSON text has been seen. This means you need to set resource limits (e.g. `C<max_size>`) to ensure the parser will stop parsing in the presence of syntax errors.

The following methods implement this incremental parser.

=head2 incr_parse

```
$json->incr_parse( [$string] ) # void context
```

```
$obj_or_undef = $json->incr_parse( [$string] ) # scalar context
```

```
@obj_or_empty = $json->incr_parse( [$string] ) # list context
```

This is the central parsing function. It can both append new text and extract objects from the stream accumulated so far (both of these functions are optional).

If `C<$string>` is given, then this string is appended to the already existing JSON fragment stored in the `C<$json>` object.

After that, if the function is called in void context, it will simply

return without doing anything further. This can be used to add more text in as many chunks as you want.

If the method is called in scalar context, then it will try to extract exactly I<one> JSON object. If that is successful, it will return this object, otherwise it will return C<undef>. If there is a parse error, this method will croak just as C<decode> would do (one can then use C<incr_skip> to skip the erroneous part). This is the most common way of using the method.

And finally, in list context, it will try to extract as many objects from the stream as it can find and return them, or the empty list otherwise. For this to work, there must be no separators (other than whitespace) between the JSON objects or arrays, instead they must be concatenated back-to-back. If an error occurs, an exception will be raised as in the scalar context case. Note that in this case, any previously-parsed JSON texts will be lost.

Example: Parse some JSON arrays/objects in a given string and return them.

```
my @objs = JSON->new->incr_parse ("[5][7][1,2]");
```

```
=head2 incr_text
```

```
$lvalue_string = $json->incr_text
```

This method returns the currently stored JSON fragment as an lvalue, that is, you can manipulate it. This I<only> works when a preceding call to C<incr_parse> in I<scalar context> successfully returned an object. Under all other circumstances you must not call this function (I mean it, although in simple tests it might actually work, it I<will> fail under real world conditions). As a special exception, you can also call this method before having parsed anything.

That means you can only use this function to look at or manipulate text before or after complete JSON objects, not while the parser is in the middle of parsing a JSON object.

This function is useful in two cases: a) finding the trailing text after a JSON object or b) parsing multiple JSON objects separated by non-JSON text (such as commas).

```
=head2 incr_skip
```

```
$json->incr_skip
```

This will reset the state of the incremental parser and will remove

the parsed text from the input buffer so far. This is useful after C<incr_parse> died, in which case the input buffer and incremental parser state is left unchanged, to skip the text parsed so far and to reset the parse state.

The difference to C<incr_reset> is that only text until the parse error occurred is removed.

=head2 incr_reset

```
$json->incr_reset
```

This completely resets the incremental parser, that is, after this call, it will be as if the parser had never parsed anything.

This is useful if you want to repeatedly parse JSON objects and want to ignore any trailing data, which means you have to reset the parser after each successful decode.

=head1 MAPPING

Most of this section is also taken from JSON::XS.

This section describes how the backend modules map Perl values to JSON values and vice versa. These mappings are designed to "do the right thing" in most circumstances automatically, preserving round-tripping characteristics (what you put in comes out as something equivalent).

For the more enlightened: note that in the following descriptions, lowercase I<perl> refers to the Perl interpreter, while uppercase I<Perl> refers to the abstract Perl language itself.

=head2 JSON -> PERL

=over 4

=item object

A JSON object becomes a reference to a hash in Perl. No ordering of object keys is preserved (JSON does not preserve object key ordering itself).

=item array

A JSON array becomes a reference to an array in Perl.

=item string

A JSON string becomes a string scalar in Perl - Unicode codepoints in JSON

are represented by the same codepoints in the Perl string, so no manual decoding is necessary.

=item number

A JSON number becomes either an integer, numeric (floating point) or string scalar in perl, depending on its range and any fractional parts. On the Perl level, there is no difference between those as Perl handles all the conversion details, but an integer may take slightly less memory and might represent more values exactly than floating point numbers.

If the number consists of digits only, this module will try to represent it as an integer value. If that fails, it will try to represent it as a numeric (floating point) value if that is possible without loss of precision. Otherwise it will preserve the number as a string value (in which case you lose roundtripping ability, as the JSON number will be re-encoded to a JSON string).

Numbers containing a fractional or exponential part will always be represented as numeric (floating point) values, possibly at a loss of precision (in which case you might lose perfect roundtripping ability, but the JSON number will still be re-encoded as a JSON number).

Note that precision is not accuracy - binary floating point values cannot represent most decimal fractions exactly, and when converting from and to floating point, this module only guarantees precision up to but not including the least significant bit.

=item true, false

These JSON atoms become C<JSON::true> and C<JSON::false>, respectively. They are overloaded to act almost exactly like the numbers C<1> and C<0>. You can check whether a scalar is a JSON boolean by using the C<JSON::is_bool> function.

=item null

A JSON null atom becomes C<undef> in Perl.

=item shell-style comments (C<< # I<text> >>)

As a nonstandard extension to the JSON syntax that is enabled by the C<relaxed> setting, shell-style comments are allowed. They can start anywhere outside strings and go till the end of the line.

=item tagged values (C<< (I<tag>)I<value> >>).

Another nonstandard extension to the JSON syntax, enabled with the

C<allow_tags> setting, are tagged values. In this implementation, the I<tag> must be a perl package/class name encoded as a JSON string, and the I<value> must be a JSON array encoding optional constructor arguments.

See L<OBJECT SERIALISATION>, below, for details.

=back

=head2 PERL -> JSON

The mapping from Perl to JSON is slightly more difficult, as Perl is a truly typeless language, so we can only guess which JSON type is meant by a Perl value.

=over 4

=item hash references

Perl hash references become JSON objects. As there is no inherent ordering in hash keys (or JSON objects), they will usually be encoded in a pseudo-random order. This module can optionally sort the hash keys (determined by the I<canonical> flag), so the same data structure will serialise to the same JSON text (given same settings and version of the same backend), but this incurs a runtime overhead and is only rarely useful, e.g. when you want to compare some JSON text against another for equality.

=item array references

Perl array references become JSON arrays.

=item other references

Other unblesed references are generally not allowed and will cause an exception to be thrown, except for references to the integers C<0> and C<1>, which get turned into C<false> and C<true> atoms in JSON. You can also use C<JSON::false> and C<JSON::true> to improve readability.

```
encode_json [0,JSON::true] # yields [false,true]
```

=item JSON::true, JSON::false, JSON::null

These special values become JSON true and JSON false values, respectively. You can also use C<\1> and C<\0> directly if you want.

=item blessed objects

Blessed objects are not directly representable in JSON, but C<JSON::XS>

allows various ways of handling objects. See L<OBJECT SERIALISATION>, below, for details.

=item simple scalars

Simple Perl scalars (any scalar that is not a reference) are the most difficult objects to encode: this module will encode undefined scalars as JSON C<null> values, scalars that have last been used in a string context before encoding as JSON strings, and anything else as number value:

```
# dump as number
encode_json [2]          # yields [2]
encode_json [-3.0e17]    # yields [-3e+17]
my $value = 5; encode_json [$value] # yields [5]
```

```
# used as string, so dump as string
print $value;
encode_json [$value]     # yields ["5"]
```

```
# undef becomes null
encode_json [undef]     # yields [null]
```

You can force the type to be a string by stringifying it:

```
my $x = 3.1; # some variable containing a number
"$x";      # stringified
$x .= "";  # another, more awkward way to stringify
print $x;  # perl does it for you, too, quite often
```

You can force the type to be a number by numifying it:

```
my $x = "3"; # some variable containing a string
$x += 0;    # numify it, ensuring it will be dumped as a number
$x *= 1;    # same thing, the choice is yours.
```

You can not currently force the type in other, less obscure, ways. Tell me if you need this capability (but don't forget to explain why it's needed :).

Since version 2.91_01, JSON::PP uses a different number detection logic that converts a scalar that is possible to turn into a number safely.

The new logic is slightly faster, and tends to help people who use older perl or who want to encode complicated data structure. However, this may results in a different JSON text from the one JSON::XS encodes (and thus may break tests that compare entire JSON texts). If you do need the previous behavior for better compatibility or for finer control, set PERL_JSON_PP_USE_B environmental variable to true before you C<use> JSON.

Note that numerical precision has the same meaning as under Perl (so binary to decimal conversion follows the same rules as in Perl, which can differ to other languages). Also, your perl interpreter might expose extensions to the floating point numbers of your platform, such as infinities or NaN's - these cannot be represented in JSON, and it is an error to pass those in.

JSON.pm backend modules trust what you pass to C<encode> method (or C<encode_json> function) is a clean, validated data structure with values that can be represented as valid JSON values only, because it's not from an external data source (as opposed to JSON texts you pass to C<decode> or C<decode_json>, which JSON backends consider tainted and don't trust). As JSON backends don't know exactly what you and consumers of your JSON texts want the unexpected values to be (you may want to convert them into null, or to stringify them with or without normalisation (string representation of infinities/NaN may vary depending on platforms), or to croak without conversion), you're advised to do what you and your consumers need before you encode, and also not to numify values that may start with values that look like a number (including infinities/NaN), without validating.

=back

=head2 OBJECT SERIALISATION

As JSON cannot directly represent Perl objects, you have to choose between a pure JSON representation (without the ability to deserialise the object automatically again), and a nonstandard extension to the JSON syntax, tagged values.

=head3 SERIALISATION

What happens when this module encounters a Perl object depends on the C<allow_blessed>, C<convert_blessed> and C<allow_tags> settings, which are used in this order:

=over 4

=item 1. C<allow_tags> is enabled and the object has a C<FREEZE> method.

In this case, C<JSON> creates a tagged JSON value, using a nonstandard extension to the JSON syntax.

This works by invoking the C<FREEZE> method on the object, with the first argument being the object to serialise, and the second argument being the constant string C<JSON> to distinguish it from other serialisers.

The C<FREEZE> method can return any number of values (i.e. zero or more). These values and the package/classname of the object will then be encoded as a tagged JSON value in the following format:

```
("classname")[FREEZE return values...]
```

e.g.:

```
("URI")["http://www.google.com/"]  
("MyDate")[2013,10,29]  
("ImageData::JPEG")["Z3...VICg=="]
```

For example, the hypothetical C<My::Object> C<FREEZE> method might use the objects C<type> and C<id> members to encode the object:

```
sub My::Object::FREEZE {  
    my ($self, $serialiser) = @_;  
  
    ($self->{type}, $self->{id})  
}
```

=item 2. C<convert_blessed> is enabled and the object has a C<TO_JSON> method.

In this case, the C<TO_JSON> method of the object is invoked in scalar context. It must return a single scalar that can be directly encoded into JSON. This scalar replaces the object in the JSON text.

For example, the following C<TO_JSON> method will convert all L<URI> objects to JSON strings when serialised. The fact that these values originally were L<URI> objects is lost.

```
sub URI::TO_JSON {  
    my ($uri) = @_;  
    $uri->as_string  
}
```

=item 3. C<allow_blessed> is enabled.

The object will be serialised as a JSON null value.

=item 4. none of the above

If none of the settings are enabled or the respective methods are missing, this module throws an exception.

=back

=head3 DESERIALISATION

For deserialisation there are only two cases to consider: either nonstandard tagging was used, in which case `C<allow_tags>` decides, or objects cannot be automatically be deserialised, in which case you can use postprocessing or the `C<filter_json_object>` or `C<filter_json_single_key_object>` callbacks to get some real objects out of your JSON.

This section only considers the tagged value case: a tagged JSON object is encountered during decoding and `C<allow_tags>` is disabled, a parse error will result (as if tagged values were not part of the grammar).

If `C<allow_tags>` is enabled, this module will look up the `C<THAW>` method of the package/classname used during serialisation (it will not attempt to load the package as a Perl module). If there is no such method, the decoding will fail with an error.

Otherwise, the `C<THAW>` method is invoked with the classname as first argument, the constant string `C<JSON>` as second argument, and all the values from the JSON array (the values originally returned by the `C<FREEZE>` method) as remaining arguments.

The method must then return the object. While technically you can return any Perl scalar, you might have to enable the `C<allow_nonref>` setting to make that work in all cases, so better return an actual blessed reference.

As an example, let's implement a `C<THAW>` function that regenerates the `C<My::Object>` from the `C<FREEZE>` example earlier:

```
sub My::Object::THAW {
    my ($class, $serialiser, $type, $id) = @_;

    $class->new (type => $type, id => $id)
}
```

=head1 ENCODING/CODESET FLAG NOTES

This section is taken from `JSON::XS`.

The interested reader might have seen a number of flags that signify encodings or codesets - `C<utf8>`, `C<latin1>` and `C<ascii>`. There seems to be some confusion on what these do, so here is a short comparison:

`C<utf8>` controls whether the JSON text created by `C<encode>` (and expected by `C<decode>`) is UTF-8 encoded or not, while `C<latin1>` and `C<ascii>` only control whether `C<encode>` escapes character values outside their respective codeset range. Neither of these flags conflict with each other, although

some combinations make less sense than others.

Care has been taken to make all flags symmetrical with respect to C<encode> and C<decode>, that is, texts encoded with any combination of these flag values will be correctly decoded when the same flags are used - in general, if you use different flag settings while encoding vs. when decoding you likely have a bug somewhere.

Below comes a verbose discussion of these flags. Note that a "codeset" is simply an abstract set of character-codepoint pairs, while an encoding takes those codepoint numbers and I<encodes> them, in our case into octets. Unicode is (among other things) a codeset, UTF-8 is an encoding, and ISO-8859-1 (= latin 1) and ASCII are both codesets I<and> encodings at the same time, which can be confusing.

=over 4

=item C<utf8> flag disabled

When C<utf8> is disabled (the default), then C<encode>/C<decode> generate and expect Unicode strings, that is, characters with high ordinal Unicode values (> 255) will be encoded as such characters, and likewise such characters are decoded as-is, no changes to them will be done, except "(re-)interpreting" them as Unicode codepoints or Unicode characters, respectively (to Perl, these are the same thing in strings unless you do funny/weird/dumb stuff).

This is useful when you want to do the encoding yourself (e.g. when you want to have UTF-16 encoded JSON texts) or when some other layer does the encoding for you (for example, when printing to a terminal using a filehandle that transparently encodes to UTF-8 you certainly do NOT want to UTF-8 encode your data first and have Perl encode it another time).

=item C<utf8> flag enabled

If the C<utf8>-flag is enabled, C<encode>/C<decode> will encode all characters using the corresponding UTF-8 multi-byte sequence, and will expect your input strings to be encoded as UTF-8, that is, no "character" of the input string must have any value > 255, as UTF-8 does not allow that.

The C<utf8> flag therefore switches between two modes: disabled means you will get a Unicode string in Perl, enabled means you get an UTF-8 encoded octet/binary string in Perl.

=item C<latin1> or C<ascii> flags enabled

With C<latin1> (or C<ascii>) enabled, C<encode> will escape characters

with ordinal values > 255 (> 127 with C<ascii>) and encode the remaining characters as specified by the C<utf8> flag.

If C<utf8> is disabled, then the result is also correctly encoded in those character sets (as both are proper subsets of Unicode, meaning that a Unicode string with all character values < 256 is the same thing as a ISO-8859-1 string, and a Unicode string with all character values < 128 is the same thing as an ASCII string in Perl).

If C<utf8> is enabled, you still get a correct UTF-8-encoded string, regardless of these flags, just some more characters will be escaped using C<\uXXXX> then before.

Note that ISO-8859-1-I<encoded> strings are not compatible with UTF-8 encoding, while ASCII-encoded strings are. That is because the ISO-8859-1 encoding is NOT a subset of UTF-8 (despite the ISO-8859-1 I<codeset> being a subset of Unicode), while ASCII is.

Surprisingly, C<decode> will ignore these flags and so treat all input values as governed by the C<utf8> flag. If it is disabled, this allows you to decode ISO-8859-1- and ASCII-encoded strings, as both strict subsets of Unicode. If it is enabled, you can correctly decode UTF-8 encoded strings.

So neither C<latin1> nor C<ascii> are incompatible with the C<utf8> flag - they only govern when the JSON output engine escapes a character or not.

The main use for C<latin1> is to relatively efficiently store binary data as JSON, at the expense of breaking compatibility with most JSON decoders.

The main use for C<ascii> is to force the output to not contain characters with values > 127, which means you can interpret the resulting string as UTF-8, ISO-8859-1, ASCII, KOI8-R or most about any character set and 8-bit-encoding, and still get the same data structure back. This is useful when your channel for JSON transfer is not 8-bit clean or the encoding might be mangled in between (e.g. in mail), and works because ASCII is a proper subset of most 8-bit and multibyte encodings in use in the world.

=back

=head1 BACKWARD INCOMPATIBILITY

Since version 2.90, stringification (and string comparison) for C<JSON::true> and C<JSON::false> has not been overloaded. It shouldn't matter as long as you treat them as boolean values, but a code that expects they are stringified as "true" or "false" doesn't work as you have expected any more.

```
if (JSON::true eq 'true') { # now fails
```

```
print "The result is $JSON::true now."; # => The result is 1 now.
```

And now these boolean values don't inherit `JSON::Boolean`, either. When you need to test a value is a JSON boolean value or not, use `C<JSON::is_bool>` function, instead of testing the value inherits a particular boolean class or not.

=head1 BUGS

Please report bugs on backend selection and additional features this module provides to RT or GitHub issues for this module:

L<<https://rt.cpan.org/Public/Dist/Display.html?Queue=JSON>>

L<<https://github.com/makamaka/JSON/issues>>

As for bugs on a specific behavior, please report to the author of the backend module you are using.

As for new features and requests to change common behaviors, please ask the author of `JSON::XS` (Marc Lehmann, E<lt>[schmorp\[at\]schmorp.de](mailto:schmorp[at]schmorp.de)<gt>) first, by email (important!), to keep compatibility among `JSON.pm` backends.

=head1 SEE ALSO

L<`JSON::XS`>, L<`Cpanel::JSON::XS`>, L<`JSON::PP`> for backends.

L<`JSON::MaybeXS`>, an alternative that prefers `Cpanel::JSON::XS`.

C<[RFC4627](http://www.ietf.org/rfc/rfc4627.txt)>(L<<http://www.ietf.org/rfc/rfc4627.txt>>)

RFC7159 (L<<http://www.ietf.org/rfc/rfc7159.txt>>)

RFC8259 (L<<http://www.ietf.org/rfc/rfc8259.txt>>)

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=head1 COPYRIGHT AND LICENSE

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=cut

Found in path(s):

* /opt/cola/permits/1146693972_1616600962.38/0/libjson-perl-4-02000-orig-1-tar-gz/JSON-4.02/lib/JSON.pm

No license file was found, but licenses were detected in source scan.

=pod

=head1 NAME

JSON::PP5005 - Helper module in using JSON::PP in Perl 5.005

=head1 DESCRIPTION

JSON::PP calls internally.

=head1 AUTHOR

Makamaka Hannyaharamitu, E<lt>makamaka[at]cpan.orgE<gt>

=head1 COPYRIGHT AND LICENSE

Copyright 2007-2012 by Makamaka Hannyaharamitu

This library is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

=cut

Found in path(s):

* /opt/cola/permits/1146693972_1616600962.38/0/libjson-perl-4-02000-orig-1-tar-gz/JSON-4.02/lib/JSON/backportPP/Compat5005.pm

No license file was found, but licenses were detected in source scan.

=pod

=head1 NAME

JSON::PP56 - Helper module in using JSON::PP in Perl 5.6

=head1 DESCRIPTION

JSON::PP calls internally.

=head1 AUTHOR

Makamaka Hannyaharamitu, E<lt>makamaka[at]cpan.orgE<gt>

=head1 COPYRIGHT AND LICENSE

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=cut

Found in path(s):

* /opt/cola/permits/1146693972_1616600962.38/0/libjson-perl-4-02000-orig-1-tar-gz/JSON-4.02/lib/JSON/backportPP/Compat5006.pm

No license file was found, but licenses were detected in source scan.

NAME

JSON - JSON (JavaScript Object Notation) encoder/decoder

SYNOPSIS

```
use JSON; # imports encode_json, decode_json, to_json and from_json.
```

```
# simple and fast interfaces (expect/generate UTF-8)
```

```
$utf8_encoded_json_text = encode_json $perl_hash_or_arrayref;  
$perl_hash_or_arrayref = decode_json $utf8_encoded_json_text;
```

```
# OO-interface
```

```
$json = JSON->new->allow_nonref;
```

```
$json_text = $json->encode( $perl_scalar );  
$perl_scalar = $json->decode( $json_text );
```

```
$pretty_printed = $json->pretty->encode( $perl_scalar ); # pretty-printing
```

VERSION

2.93

DESCRIPTION

This module is a thin wrapper for JSON::XS-compatible modules with a few additional features. All the backend modules convert a Perl data structure to a JSON text as of RFC4627 (which we know is obsolete but we still stick to; see below for an option to support part of RFC7159) and vice versa. This module uses JSON::XS by default, and when JSON::XS is not available, this module falls back on JSON::PP, which is in the Perl core since 5.14. If JSON::PP is not available either, this module then falls back on JSON::backportPP (which is actually JSON::PP in a different .pm file) bundled in the same distribution as this module. You can also explicitly specify to use Cpanel::JSON::XS, a fork of JSON::XS by Reini Urban.

All these backend modules have slight incompatibilities between them, including extra features that other modules don't support, but as long as you use only common features (most important ones are described below), migration from backend to backend should be reasonably easy. For details, see each backend module you use.

CHOOSING BACKEND

This module respects an environmental variable called "PERL_JSON_BACKEND" when it decides a backend module to use. If this environmental variable is not set, it tries to load JSON::XS, and if JSON::XS is not available, it falls back on JSON::PP, and then JSON::backportPP if JSON::PP is not available either.

If you always don't want it to fall back on pure perl modules, set the variable like this ("export" may be "setenv", "set" and the likes, depending on your environment):

```
> export PERL_JSON_BACKEND=JSON::XS
```

If you prefer Cpanel::JSON::XS to JSON::XS, then:

```
> export PERL_JSON_BACKEND=Cpanel::JSON::XS,JSON::XS,JSON::PP
```

You may also want to set this variable at the top of your test files, in order not to be bothered with incompatibilities between backends (you need to wrap this in "BEGIN", and set before actually "use"-ing JSON module, as it decides its backend as soon as it's loaded):

```
BEGIN { $ENV{PERL_JSON_BACKEND}='JSON::backportPP'; }  
use JSON;
```

USING OPTIONAL FEATURES

There are a few options you can set when you "use" this module:

```
-support_by_pp
BEGIN { $ENV{PERL_JSON_BACKEND} = 'JSON::XS' }

use JSON -support_by_pp;

my $json = JSON->new;
# escape_slash is for JSON::PP only.
$json->allow_nonref->escape_slash->encode("/");
```

With this option, this module loads its pure perl backend along with its XS backend (if available), and lets the XS backend to watch if you set a flag only JSON::PP supports. When you do, the internal JSON::XS object is replaced with a newly created JSON::PP object with the setting copied from the XS object, so that you can use JSON::PP flags (and its slower "decode"/"encode" methods) from then on. In other words, this is not something that allows you to hook JSON::XS to change its behavior while keeping its speed. JSON::XS and JSON::PP objects are quite different (JSON::XS object is a blessed scalar reference, while JSON::PP object is a blessed hash reference), and can't share their internals.

To avoid needless overhead (by copying settings), you are advised not to use this option and just to use JSON::PP explicitly when you need JSON::PP features.

```
-convert_blessed_universally
use JSON -convert_blessed_universally;

my $json = JSON->new->allow_nonref->convert_blessed;
my $object = bless {foo => 'bar'}, 'Foo';
$json->encode($object); # => {"foo":"bar"}
```

JSON::XS-compatible backend modules don't encode blessed objects by default (except for their boolean values, which are typically blessed JSON::PP::Boolean objects). If you need to encode a data structure that may contain objects, you usually need to look into the structure and replace objects with alternative non-blessed values, or enable "convert_blessed" and provide a "TO_JSON" method for each object's (base) class that may be found in the structure, in order to let the methods replace the objects with whatever scalar values the methods return.

If you need to serialise data structures that may contain arbitrary objects, it's probably better to use other

serialisers (such as Sereal or Storable for example), but if you do want to use this module for that purpose, "-convert_blessed_universally" option may help, which tweaks "encode" method of the backend to install "UNIVERSAL::TO_JSON" method (locally) before encoding, so that all the objects that don't have their own "TO_JSON" method can fall back on the method in the "UNIVERSAL" namespace. Note that you still need to enable "convert_blessed" flag to actually encode objects in a data structure, and "UNIVERSAL::TO_JSON" method installed by this option only converts blessed hash/array references into their unblessed clone (including private keys/values that are not supposed to be exposed). Other blessed references will be converted into null.

This feature is experimental and may be removed in the future.

-no_export

When you don't want to import functional interfaces from a module, you usually supply "()" to its "use" statement.

```
use JSON (); # no functional interfaces
```

If you don't want to import functional interfaces, but you also want to use any of the above options, add "-no_export" to the option list.

```
# no functional interfaces, while JSON::PP support is enabled.
use JSON -support_by_pp, -no_export;
```

FUNCTIONAL INTERFACE

This section is taken from JSON::XS. "encode_json" and "decode_json" are exported by default.

This module also exports "to_json" and "from_json" for backward compatibility. These are slower, and may expect/generate different stuff from what "encode_json" and "decode_json" do, depending on their options. It's better just to use Object-Oriented interfaces than using these two functions.

encode_json

```
$json_text = encode_json $perl_scalar
```

Converts the given Perl data structure to a UTF-8 encoded, binary string (that is, the string contains octets only). Croaks on error.

This function call is functionally identical to:


```
$json_text = JSON->new->utf8->encode($perl_scalar)
```

Except being faster.

decode_json

```
$perl_scalar = decode_json $json_text
```

The opposite of "encode_json": expects an UTF-8 (binary) string and tries to parse that as an UTF-8 encoded JSON text, returning the resulting reference. Croaks on error.

This function call is functionally identical to:

```
$perl_scalar = JSON->new->utf8->decode($json_text)
```

Except being faster.

to_json

```
$json_text = to_json($perl_scalar[, $optional_hashref])
```

Converts the given Perl data structure to a Unicode string by default. Croaks on error.

Basically, this function call is functionally identical to:

```
$json_text = JSON->new->encode($perl_scalar)
```

Except being slower.

You can pass an optional hash reference to modify its behavior, but that may change what "to_json" expects/generates (see "ENCODING/CODESET FLAG NOTES" for details).

```
$json_text = to_json($perl_scalar, {utf8 => 1, pretty => 1})  
# => JSON->new->utf8(1)->pretty(1)->encode($perl_scalar)
```

from_json

```
$perl_scalar = from_json($json_text[, $optional_hashref])
```

The opposite of "to_json": expects a Unicode string and tries to parse it, returning the resulting reference. Croaks on error.

Basically, this function call is functionally identical to:

```
$perl_scalar = JSON->new->decode($json_text)
```

You can pass an optional hash reference to modify its behavior, but that may change what "from_json" expects/generates (see

"ENCODING/CODESET FLAG NOTES" for details).

```
$perl_scalar = from_json($json_text, {utf8 => 1})  
# => JSON->new->utf8(1)->decode($json_text)
```

JSON::is_bool

```
$is_boolean = JSON::is_bool($scalar)
```

Returns true if the passed scalar represents either JSON::true or JSON::false, two constants that act like 1 and 0 respectively and are also used to represent JSON "true" and "false" in Perl strings.

See MAPPING, below, for more information on how JSON values are mapped to Perl.

COMMON OBJECT-ORIENTED INTERFACE

This section is also taken from JSON::XS.

The object oriented interface lets you configure your own encoding or decoding style, within the limits of supported formats.

new

```
$json = JSON->new
```

Creates a new JSON::XS-compatible backend object that can be used to de/encode JSON strings. All boolean flags described below are by default *disabled*.

The mutators for flags all return the backend object again and thus calls can be chained:

```
my $json = JSON->new->utf8->space_after->encode({a => [1,2]})  
=> {"a": [1, 2]}
```

ascii

```
$json = $json->ascii([$enable])
```

```
$enabled = $json->get_ascii
```

If \$enable is true (or missing), then the "encode" method will not generate characters outside the code range 0..127 (which is ASCII). Any Unicode characters outside that range will be escaped using either a single \uXXXX (BMP characters) or a double \uHHHH\uLLLLL escape sequence, as per RFC4627. The resulting encoded JSON text can be treated as a native Unicode string, an ascii-encoded, latin1-encoded or UTF-8 encoded string, or any other superset of ASCII.

If `$enable` is false, then the "encode" method will not escape Unicode characters unless required by the JSON syntax or other flags. This results in a faster and more compact format.

See also the section **ENCODING/CODESET FLAG NOTES** later in this document.

The main use for this flag is to produce JSON texts that can be transmitted over a 7-bit channel, as the encoded JSON texts will not contain any 8 bit characters.

```
JSON->new->ascii(1)->encode([chr 0x10401])
=> ["\ud801\udc01"]
```

latin1

```
$json = $json->latin1([$enable])
```

```
$enabled = $json->get_latin1
```

If `$enable` is true (or missing), then the "encode" method will encode the resulting JSON text as latin1 (or iso-8859-1), escaping any characters outside the code range 0..255. The resulting string can be treated as a latin1-encoded JSON text or a native Unicode string. The "decode" method will not be affected in any way by this flag, as "decode" by default expects Unicode, which is a strict superset of latin1.

If `$enable` is false, then the "encode" method will not escape Unicode characters unless required by the JSON syntax or other flags.

See also the section **ENCODING/CODESET FLAG NOTES** later in this document.

The main use for this flag is efficiently encoding binary data as JSON text, as most octets will not be escaped, resulting in a smaller encoded size. The disadvantage is that the resulting JSON text is encoded in latin1 (and must correctly be treated as such when storing and transferring), a rare encoding for JSON. It is therefore most useful when you want to store data structures known to contain binary data efficiently in files or databases, not when talking to other JSON encoders/decoders.

```
JSON->new->latin1->encode(["\x{89}\x{abc}"])
=> ["\x{89}\u0abc"] # (perl syntax, U+abc escaped, U+89 not)
```

utf8

```
$json = $json->utf8([$enable])
```

```
$enabled = $json->get_utf8
```

If `$enable` is true (or missing), then the "encode" method will encode the JSON result into UTF-8, as required by many protocols, while the "decode" method expects to be handled an UTF-8-encoded string. Please note that UTF-8-encoded strings do not contain any characters outside the range 0..255, they are thus useful for bitwise/binary I/O. In future versions, enabling this option might enable autodetection of the UTF-16 and UTF-32 encoding families, as described in RFC4627.

If `$enable` is false, then the "encode" method will return the JSON string as a (non-encoded) Unicode string, while "decode" expects thus a Unicode string. Any decoding or encoding (e.g. to UTF-8 or UTF-16) needs to be done yourself, e.g. using the Encode module.

See also the section **ENCODING/CODESET FLAG NOTES** later in this document.

Example, output UTF-16BE-encoded JSON:

```
use Encode;
$jsoncontext = encode "UTF-16BE", $json->new->encode ($object);
```

Example, decode UTF-32LE-encoded JSON:

```
use Encode;
$object = $json->new->decode (decode "UTF-32LE", $jsoncontext);
```

```
pretty
$json = $json->pretty([$enable])
```

This enables (or disables) all of the "indent", "space_before" and "space_after" (and in the future possibly more) flags in one call to generate the most readable (or most compact) form possible.

```
indent
$json = $json->indent([$enable])
```

```
$enabled = $json->get_indent
```

If `$enable` is true (or missing), then the "encode" method will use a multiline format as output, putting every array member or object/hash key-value pair into its own line, indenting them properly.

If `$enable` is false, no newlines or indenting will be produced, and the resulting JSON text is guaranteed not to contain any "newlines".

This setting has no effect when decoding JSON texts.

`space_before`

```
$json = $json->space_before([$enable])
```

```
$enabled = $json->get_space_before
```

If `$enable` is true (or missing), then the "encode" method will add an extra optional space before the ":" separating keys from values in JSON objects.

If `$enable` is false, then the "encode" method will not add any extra space at those places.

This setting has no effect when decoding JSON texts. You will also most likely combine this setting with "space_after".

Example, `space_before` enabled, `space_after` and `indent` disabled:

```
{"key" : "value" }
```

`space_after`

```
$json = $json->space_after([$enable])
```

```
$enabled = $json->get_space_after
```

If `$enable` is true (or missing), then the "encode" method will add an extra optional space after the ":" separating keys from values in JSON objects and extra whitespace after the "," separating key-value pairs and array members.

If `$enable` is false, then the "encode" method will not add any extra space at those places.

This setting has no effect when decoding JSON texts.

Example, `space_before` and `indent` disabled, `space_after` enabled:

```
{ "key": "value" }
```

`relaxed`

```
$json = $json->relaxed([$enable])
```

```
$enabled = $json->get_relaxed
```

If `$enable` is true (or missing), then "decode" will accept some extensions to normal JSON syntax (see below). "encode" will not be affected in anyway. *Be aware that this option makes you accept invalid JSON texts as if they were valid!*. I suggest only to use this option to parse application-specific files written by humans (configuration files, resource files etc.)

If `$enable` is false (the default), then "decode" will only accept valid JSON texts.

Currently accepted extensions are:

- * list items can have an end-comma

JSON *separates* array elements and key-value pairs with commas. This can be annoying if you write JSON texts manually and want to be able to quickly append elements, so this extension accepts comma at the end of such items not just between them:

```
[
  1,
  2, <- this comma not normally allowed
]
{
  "k1": "v1",
  "k2": "v2", <- this comma not normally allowed
}
```

- * shell-style '#'-comments

Whenever JSON allows whitespace, shell-style comments are additionally allowed. They are terminated by the first carriage-return or line-feed character, after which more white-space and comments are allowed.

```
[
  1, # this comment not allowed in JSON
  # neither this one...
]
```

canonical

```
$json = $json->canonical([$enable])
```

```
$enabled = $json->get_canonical
```

If `$enable` is true (or missing), then the "encode" method will

output JSON objects by sorting their keys. This is adding a comparatively high overhead.

If `$enable` is false, then the "encode" method will output key-value pairs in the order Perl stores them (which will likely change between runs of the same script, and can change even within the same run from 5.18 onwards).

This option is useful if you want the same data structure to be encoded as the same JSON text (given the same overall settings). If it is disabled, the same hash might be encoded differently even if contains the same data, as key-value pairs have no inherent ordering in Perl.

This setting has no effect when decoding JSON texts.

This setting has currently no effect on tied hashes.

`allow_nonref`

```
$json = $json->allow_nonref([$enable])
```

```
$enabled = $json->get_allow_nonref
```

If `$enable` is true (or missing), then the "encode" method can convert a non-reference into its corresponding string, number or null JSON value, which is an extension to RFC4627. Likewise, "decode" will accept those JSON values instead of croaking.

If `$enable` is false, then the "encode" method will croak if it isn't passed an arrayref or hashref, as JSON texts must either be an object or array. Likewise, "decode" will croak if given something that is not a JSON object or array.

Example, encode a Perl scalar as JSON value with enabled "allow_nonref", resulting in an invalid JSON text:

```
JSON->new->allow_nonref->encode ("Hello, World!")  
=> "Hello, World!"
```

`allow_unknown`

```
$json = $json->allow_unknown([$enable])
```

```
$enabled = $json->get_allow_unknown
```

If `$enable` is true (or missing), then "encode" will *not* throw an exception when it encounters values it cannot represent in JSON (for example, filehandles) but instead will encode a JSON "null" value. Note that blessed objects are not included here and are

handled separately by `c<allow_nonref>`.

If `$enable` is false (the default), then "encode" will throw an exception when it encounters anything it cannot encode as JSON.

This option does not affect "decode" in any way, and it is recommended to leave it off unless you know your communications partner.

`allow_blessed`

```
$json = $json->allow_blessed([$enable])
```

```
$enabled = $json->get_allow_blessed
```

See "OBJECT SERIALISATION" for details.

If `$enable` is true (or missing), then the "encode" method will not barf when it encounters a blessed reference that it cannot convert otherwise. Instead, a JSON "null" value is encoded instead of the object.

If `$enable` is false (the default), then "encode" will throw an exception when it encounters a blessed object that it cannot convert otherwise.

This setting has no effect on "decode".

`convert_blessed`

```
$json = $json->convert_blessed([$enable])
```

```
$enabled = $json->get_convert_blessed
```

See "OBJECT SERIALISATION" for details.

If `$enable` is true (or missing), then "encode", upon encountering a blessed object, will check for the availability of the "TO_JSON" method on the object's class. If found, it will be called in scalar context and the resulting scalar will be encoded instead of the object.

The "TO_JSON" method may safely call die if it wants. If "TO_JSON" returns other blessed objects, those will be handled in the same way. "TO_JSON" must take care of not causing an endless recursion cycle (== crash) in this case. The name of "TO_JSON" was chosen because other methods called by the Perl core (== not by the user of the object) are usually in upper case letters and to avoid collisions with any "to_json" function or method.

If \$enable is false (the default), then "encode" will not consider this type of conversion.

This setting has no effect on "decode".

filter_json_object

```
$json = $json->filter_json_object([$coderef])
```

When \$coderef is specified, it will be called from "decode" each time it decodes a JSON object. The only argument is a reference to the newly-created hash. If the code references returns a single scalar (which need not be a reference), this value (i.e. a copy of that scalar to avoid aliasing) is inserted into the deserialised data structure. If it returns an empty list (NOTE: **not** "undef", which is a valid scalar), the original deserialised hash will be inserted. This setting can slow down decoding considerably.

When \$coderef is omitted or undefined, any existing callback will be removed and "decode" will not change the deserialised hash in any way.

Example, convert all JSON objects into the integer 5:

```
my $js = JSON->new->filter_json_object (sub { 5 });
# returns [5]
$js->decode ('[{}]); # the given subroutine takes a hash reference.
# throw an exception because allow_nonref is not enabled
# so a lone 5 is not allowed.
$js->decode ('{"a":1, "b":2}');
```

filter_json_single_key_object

```
$json = $json->filter_json_single_key_object($key [=> $coderef])
```

Works remotely similar to "filter_json_object", but is only called for JSON objects having a single key named \$key.

This \$coderef is called before the one specified via "filter_json_object", if any. It gets passed the single value in the JSON object. If it returns a single value, it will be inserted into the data structure. If it returns nothing (not even "undef" but the empty list), the callback from "filter_json_object" will be called next, as if no single-key callback were specified.

If \$coderef is omitted or undefined, the corresponding callback will be disabled. There can only ever be one callback for a given key.

As this callback gets called less often than the

"filter_json_object" one, decoding speed will not usually suffer as much. Therefore, single-key objects make excellent targets to serialise Perl objects into, especially as single-key JSON objects are as close to the type-tagged value concept as JSON gets (it's basically an ID/VALUE tuple). Of course, JSON does not support this in any way, so you need to make sure your data never looks like a serialised Perl hash.

Typical names for the single object key are "__class_whatever__", or "\$__dollars_are_rarely_used__\$" or "}ugly_brace_placement", or even things like "__class_md5sum(classname)__", to reduce the risk of clashing with real hashes.

Example, decode JSON objects of the form "{ "__widget__" => <id> }" into the corresponding \$WIDGET{<id>} object:

```
# return whatever is in $WIDGET{5}:
JSON
->new
->filter_json_single_key_object (__widget__ => sub {
    $WIDGET{ $_[0] }
})
->decode ('{"__widget__": 5')

# this can be used with a TO_JSON method in some "widget" class
# for serialisation to json:
sub WidgetBase::TO_JSON {
    my ($self) = @_;

    unless ($self->{id}) {
        $self->{id} = ..get..some..id..;
        $WIDGET{$self->{id}} = $self;
    }

    { __widget__ => $self->{id} }
}

max_depth
$json = $json->max_depth([$maximum_nesting_depth])

$max_depth = $json->get_max_depth
```

Sets the maximum nesting level (default 512) accepted while encoding or decoding. If a higher nesting level is detected in JSON text or a Perl data structure, then the encoder and decoder will stop and croak at that point.

Nesting level is defined by number of hash- or arrayrefs that the

encoder needs to traverse to reach a given point or the number of "{" or "[" characters without their matching closing parenthesis crossed to reach a given character in a string.

Setting the maximum depth to one disallows any nesting, so that ensures that the object is only a single hash/object or array.

If no argument is given, the highest possible setting will be used, which is rarely useful.

max_size

```
$json = $json->max_size([$maximum_string_size])
```

```
$max_size = $json->get_max_size
```

Set the maximum length a JSON text may have (in bytes) where decoding is being attempted. The default is 0, meaning no limit. When "decode" is called on a string that is longer than this many bytes, it will not attempt to decode the string but throw an exception. This setting has no effect on "encode" (yet).

If no argument is given, the limit check will be deactivated (same as when 0 is specified).

encode

```
$json_text = $json->encode($perl_scalar)
```

Converts the given Perl value or data structure to its JSON representation. Croaks on error.

decode

```
$perl_scalar = $json->decode($json_text)
```

The opposite of "encode": expects a JSON text and tries to parse it, returning the resulting simple scalar or reference. Croaks on error.

decode_prefix

```
($perl_scalar, $characters) = $json->decode_prefix($json_text)
```

This works like the "decode" method, but instead of raising an exception when there is trailing garbage after the first JSON object, it will silently stop parsing there and return the number of characters consumed so far.

This is useful if your JSON texts are not delimited by an outer protocol and you need to know where the JSON text ends.

```
JSON->new->decode_prefix("[1] the tail")
=> ([1], 3)
```

ADDITIONAL METHODS

The following methods are for this module only.

backend

```
$backend = $json->backend
```

Since 2.92, "backend" method returns an abstract backend module used currently, which should be `JSON::Backend::XS` (which inherits `JSON::XS` or `Cpanel::JSON::XS`), or `JSON::Backend::PP` (which inherits `JSON::PP`), not to monkey-patch the actual backend module globally.

If you need to know what is used actually, use "isa", instead of string comparison.

is_xs

```
$boolean = $json->is_xs
```

Returns true if the backend inherits `JSON::XS` or `Cpanel::JSON::XS`.

is_pp

```
$boolean = $json->is_pp
```

Returns true if the backend inherits `JSON::PP`.

property

```
$settings = $json->property()
```

Returns a reference to a hash that holds all the common flag settings.

```
$json = $json->property('utf8' => 1)
$value = $json->property('utf8') # 1
```

You can use this to get/set a value of a particular flag.

INCREMENTAL PARSING

This section is also taken from `JSON::XS`.

In some cases, there is the need for incremental parsing of JSON texts. While this module always has to keep both JSON text and resulting Perl data structure in memory at one time, it does allow you to parse a JSON stream incrementally. It does so by accumulating text until it has a full JSON object, which it then can decode. This process is similar to using "decode_prefix" to

see if a full JSON object is available, but is much more efficient (and can be implemented with a minimum of method calls).

This module will only attempt to parse the JSON text once it is sure it has enough text to get a decisive result, using a very simple but truly incremental parser. This means that it sometimes won't stop as early as the full parser, for example, it doesn't detect mismatched parentheses. The only thing it guarantees is that it starts decoding as soon as a syntactically valid JSON text has been seen. This means you need to set resource limits (e.g. "max_size") to ensure the parser will stop parsing in the presence of syntax errors.

The following methods implement this incremental parser.

`incr_parse`

```
$json->incr_parse( [$string] ) # void context
```

```
$obj_or_undef = $json->incr_parse( [$string] ) # scalar context
```

```
@obj_or_empty = $json->incr_parse( [$string] ) # list context
```

This is the central parsing function. It can both append new text and extract objects from the stream accumulated so far (both of these functions are optional).

If `$string` is given, then this string is appended to the already existing JSON fragment stored in the `$json` object.

After that, if the function is called in void context, it will simply return without doing anything further. This can be used to add more text in as many chunks as you want.

If the method is called in scalar context, then it will try to extract exactly **one** JSON object. If that is successful, it will return this object, otherwise it will return "undef". If there is a parse error, this method will croak just as "decode" would do (one can then use "incr_skip" to skip the erroneous part). This is the most common way of using the method.

And finally, in list context, it will try to extract as many objects from the stream as it can find and return them, or the empty list otherwise. For this to work, there must be no separators (other than whitespace) between the JSON objects or arrays, instead they must be concatenated back-to-back. If an error occurs, an exception will be raised as in the scalar context case. Note that in this case, any previously-parsed JSON texts will be lost.

Example: Parse some JSON arrays/objects in a given string and return them.

```
my @objs = JSON->new->incr_parse ("[5][7][1,2]");
```

incr_text

```
$lvalue_string = $json->incr_text
```

This method returns the currently stored JSON fragment as an lvalue, that is, you can manipulate it. This **only** works when a preceding call to "incr_parse" in **scalar context** successfully returned an object. Under all other circumstances you must not call this function (I mean it. although in simple tests it might actually work, it **will** fail under real world conditions). As a special exception, you can also call this method before having parsed anything.

That means you can only use this function to look at or manipulate text before or after complete JSON objects, not while the parser is in the middle of parsing a JSON object.

This function is useful in two cases: a) finding the trailing text after a JSON object or b) parsing multiple JSON objects separated by non-JSON text (such as commas).

incr_skip

```
$json->incr_skip
```

This will reset the state of the incremental parser and will remove the parsed text from the input buffer so far. This is useful after "incr_parse" died, in which case the input buffer and incremental parser state is left unchanged, to skip the text parsed so far and to reset the parse state.

The difference to "incr_reset" is that only text until the parse error occurred is removed.

incr_reset

```
$json->incr_reset
```

This completely resets the incremental parser, that is, after this call, it will be as if the parser had never parsed anything.

This is useful if you want to repeatedly parse JSON objects and want to ignore any trailing data, which means you have to reset the parser after each successful decode.

MAPPING

Most of this section is also taken from JSON::XS.

This section describes how the backend modules map Perl values to JSON values and vice versa. These mappings are designed to "do the right thing" in most circumstances automatically, preserving round-tripping characteristics (what you put in comes out as something equivalent).

For the more enlightened: note that in the following descriptions, lowercase `*perl*` refers to the Perl interpreter, while uppercase `*Perl*` refers to the abstract Perl language itself.

JSON -> PERL

object

A JSON object becomes a reference to a hash in Perl. No ordering of object keys is preserved (JSON does not preserve object key ordering itself).

array

A JSON array becomes a reference to an array in Perl.

string

A JSON string becomes a string scalar in Perl - Unicode codepoints in JSON are represented by the same codepoints in the Perl string, so no manual decoding is necessary.

number

A JSON number becomes either an integer, numeric (floating point) or string scalar in perl, depending on its range and any fractional parts. On the Perl level, there is no difference between those as Perl handles all the conversion details, but an integer may take slightly less memory and might represent more values exactly than floating point numbers.

If the number consists of digits only, this module will try to represent it as an integer value. If that fails, it will try to represent it as a numeric (floating point) value if that is possible without loss of precision. Otherwise it will preserve the number as a string value (in which case you lose roundtripping ability, as the JSON number will be re-encoded to a JSON string).

Numbers containing a fractional or exponential part will always be represented as numeric (floating point) values, possibly at a loss of precision (in which case you might lose perfect roundtripping ability, but the JSON number will still

be re-encoded as a JSON number).

Note that precision is not accuracy - binary floating point values cannot represent most decimal fractions exactly, and when converting from and to floating point, this module only guarantees precision up to but not including the least significant bit.

true, false

These JSON atoms become "JSON::true" and "JSON::false", respectively. They are overloaded to act almost exactly like the numbers 1 and 0. You can check whether a scalar is a JSON boolean by using the "JSON::is_bool" function.

null

A JSON null atom becomes "undef" in Perl.

shell-style comments ("# *text*")

As a nonstandard extension to the JSON syntax that is enabled by the "relaxed" setting, shell-style comments are allowed. They can start anywhere outside strings and go till the end of the line.

PERL -> JSON

The mapping from Perl to JSON is slightly more difficult, as Perl is a truly typeless language, so we can only guess which JSON type is meant by a Perl value.

hash references

Perl hash references become JSON objects. As there is no inherent ordering in hash keys (or JSON objects), they will usually be encoded in a pseudo-random order. This module can optionally sort the hash keys (determined by the *canonical* flag), so the same data structure will serialise to the same JSON text (given same settings and version of the same backend), but this incurs a runtime overhead and is only rarely useful, e.g. when you want to compare some JSON text against another for equality.

array references

Perl array references become JSON arrays.

other references

Other unblest references are generally not allowed and will cause an exception to be thrown, except for references to the integers 0 and 1, which get turned into "false" and "true" atoms in JSON. You can also use "JSON::false" and "JSON::true" to improve readability.


```
encode_json [\0,JSON::true] # yields [false,true]
```

JSON::true, JSON::false, JSON::null

These special values become JSON true and JSON false values, respectively. You can also use "\1" and "\0" directly if you want.

blessed objects

Blessed objects are not directly representable in JSON, but "JSON::XS" allows various ways of handling objects. See "OBJECT SERIALISATION", below, for details.

simple scalars

Simple Perl scalars (any scalar that is not a reference) are the most difficult objects to encode: this module will encode undefined scalars as JSON "null" values, scalars that have last been used in a string context before encoding as JSON strings, and anything else as number value:

```
# dump as number
encode_json [2] # yields [2]
encode_json [-3.0e17] # yields [-3e+17]
my $value = 5; encode_json [$value] # yields [5]
```

```
# used as string, so dump as string
print $value;
encode_json [$value] # yields ["5"]
```

```
# undef becomes null
encode_json [undef] # yields [null]
```

You can force the type to be a string by stringifying it:

```
my $x = 3.1; # some variable containing a number
"$x"; # stringified
$x .= ""; # another, more awkward way to stringify
print $x; # perl does it for you, too, quite often
```

You can force the type to be a number by numifying it:

```
my $x = "3"; # some variable containing a string
$x += 0; # numify it, ensuring it will be dumped as a number
$x *= 1; # same thing, the choice is yours.
```

You can not currently force the type in other, less obscure, ways. Tell me if you need this capability (but don't forget to explain why it's needed :).

Note that numerical precision has the same meaning as under Perl (so binary to decimal conversion follows the same rules as in Perl, which can differ to other languages). Also, your perl interpreter might expose extensions to the floating point numbers of your platform, such as infinities or NaN's - these cannot be represented in JSON, and it is an error to pass those in.

OBJECT SERIALISATION

As for Perl objects, this module only supports a pure JSON representation (without the ability to deserialise the object automatically again).

SERIALISATION

What happens when this module encounters a Perl object depends on the "allow_blessed" and "convert_blessed" settings, which are used in this order:

1. "convert_blessed" is enabled and the object has a "TO_JSON" method.

In this case, the "TO_JSON" method of the object is invoked in scalar context. It must return a single scalar that can be directly encoded into JSON. This scalar replaces the object in the JSON text.

For example, the following "TO_JSON" method will convert all URI objects to JSON strings when serialised. The fact that these values originally were URI objects is lost.

```
sub URI::TO_JSON {
    my ($uri) = @_ ;
    $uri->as_string
}
```

2. "allow_blessed" is enabled.

The object will be serialised as a JSON null value.

3. none of the above

If none of the settings are enabled or the respective methods are missing, this module throws an exception.

ENCODING/CODESET FLAG NOTES

This section is taken from JSON::XS.

The interested reader might have seen a number of flags that signify encodings or codesets - "utf8", "latin1" and "ascii".

There seems to be some confusion on what these do, so here is a

short comparison:

"utf8" controls whether the JSON text created by "encode" (and expected by "decode") is UTF-8 encoded or not, while "latin1" and "ascii" only control whether "encode" escapes character values outside their respective codeset range. Neither of these flags conflict with each other, although some combinations make less sense than others.

Care has been taken to make all flags symmetrical with respect to "encode" and "decode", that is, texts encoded with any combination of these flag values will be correctly decoded when the same flags are used - in general, if you use different flag settings while encoding vs. when decoding you likely have a bug somewhere.

Below comes a verbose discussion of these flags. Note that a "codeset" is simply an abstract set of character-codepoint pairs, while an encoding takes those codepoint numbers and *encodes* them, in our case into octets. Unicode is (among other things) a codeset, UTF-8 is an encoding, and ISO-8859-1 (= latin 1) and ASCII are both codesets *and* encodings at the same time, which can be confusing.

"utf8" flag disabled

When "utf8" is disabled (the default), then "encode"/"decode" generate and expect Unicode strings, that is, characters with high ordinal Unicode values (> 255) will be encoded as such characters, and likewise such characters are decoded as-is, no changes to them will be done, except "(re-)interpreting" them as Unicode codepoints or Unicode characters, respectively (to Perl, these are the same thing in strings unless you do funny/weird/dumb stuff).

This is useful when you want to do the encoding yourself (e.g. when you want to have UTF-16 encoded JSON texts) or when some other layer does the encoding for you (for example, when printing to a terminal using a filehandle that transparently encodes to UTF-8 you certainly do NOT want to UTF-8 encode your data first and have Perl encode it another time).

"utf8" flag enabled

If the "utf8"-flag is enabled, "encode"/"decode" will encode all characters using the corresponding UTF-8 multi-byte sequence, and will expect your input strings to be encoded as UTF-8, that is, no "character" of the input string must have any value > 255, as UTF-8 does not allow that.

The "utf8" flag therefore switches between two modes: disabled

means you will get a Unicode string in Perl, enabled means you get an UTF-8 encoded octet/binary string in Perl.

"latin1" or "ascii" flags enabled

With "latin1" (or "ascii") enabled, "encode" will escape characters with ordinal values > 255 (> 127 with "ascii") and encode the remaining characters as specified by the "utf8" flag.

If "utf8" is disabled, then the result is also correctly encoded in those character sets (as both are proper subsets of Unicode, meaning that a Unicode string with all character values < 256 is the same thing as a ISO-8859-1 string, and a Unicode string with all character values < 128 is the same thing as an ASCII string in Perl).

If "utf8" is enabled, you still get a correct UTF-8-encoded string, regardless of these flags, just some more characters will be escaped using "\uXXXX" then before.

Note that ISO-8859-1-*encoded* strings are not compatible with UTF-8 encoding, while ASCII-encoded strings are. That is because the ISO-8859-1 encoding is NOT a subset of UTF-8 (despite the ISO-8859-1 *codeset* being a subset of Unicode), while ASCII is.

Surprisingly, "decode" will ignore these flags and so treat all input values as governed by the "utf8" flag. If it is disabled, this allows you to decode ISO-8859-1- and ASCII-encoded strings, as both strict subsets of Unicode. If it is enabled, you can correctly decode UTF-8 encoded strings.

So neither "latin1" nor "ascii" are incompatible with the "utf8" flag - they only govern when the JSON output engine escapes a character or not.

The main use for "latin1" is to relatively efficiently store binary data as JSON, at the expense of breaking compatibility with most JSON decoders.

The main use for "ascii" is to force the output to not contain characters with values > 127, which means you can interpret the resulting string as UTF-8, ISO-8859-1, ASCII, KOI8-R or most about any character set and 8-bit-encoding, and still get the same data structure back. This is useful when your channel for JSON transfer is not 8-bit clean or the encoding might be mangled in between (e.g. in mail), and works because ASCII is a proper subset of most 8-bit and multibyte encodings in use

in the world.

BACKWARD INCOMPATIBILITY

Since version 2.90, stringification (and string comparison) for "JSON::true" and "JSON::false" has not been overloaded. It shouldn't matter as long as you treat them as boolean values, but a code that expects they are stringified as "true" or "false" doesn't work as you have expected any more.

```
if (JSON::true eq 'true') { # now fails

print "The result is $JSON::true now."; # => The result is 1 now.
```

And now these boolean values don't inherit JSON::Boolean, either. When you need to test a value is a JSON boolean value or not, use "JSON::is_bool" function, instead of testing the value inherits a particular boolean class or not.

BUGS

Please report bugs on backend selection and additional features this module provides to RT or GitHub issues for this module:

<https://rt.cpan.org/Public/Dist/Display.html?Queue=JSON>
<https://github.com/makamaka/JSON/issues>

Please report bugs and feature requests on decoding/encoding and boolean behaviors to the author of the backend module you are using.

SEE ALSO

JSON::XS, Cpanel::JSON::XS, JSON::PP for backends.

JSON::MaybeXS, an alternative that prefers Cpanel::JSON::XS.

"RFC4627"(<<http://www.ietf.org/rfc/rfc4627.txt>>)

AUTHOR

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JSON::XS was written by Marc Lehmann <[schmorp\[at\]schmorp.de](mailto:schmorp[at]schmorp.de)>

The release of this new version owes to the courtesy of Marc Lehmann.

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modify it under the same terms as Perl itself.

Found in path(s):

* /opt/cola/permits/1146693972_1616600962.38/0/libjson-perl-4-02000-orig-1-tar-gz/JSON-4.02/README
No license file was found, but licenses were detected in source scan.

=head1 NAME

JSON::PP::Boolean - dummy module providing JSON::PP::Boolean

=head1 SYNOPSIS

```
# do not "use" yourself
```

=head1 DESCRIPTION

This module exists only to provide overload resolution for Storable and similar modules. See L<JSON::PP> for more info about this class.

=head1 AUTHOR

This idea is from L<JSON::XS::Boolean> written by Marc Lehmann <schmorp[at]schmorp.de>

=head1 LICENSE

This library is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

=cut

Found in path(s):

* /opt/cola/permits/1146693972_1616600962.38/0/libjson-perl-4-02000-orig-1-tar-gz/JSON-4.02/lib/JSON/backportPP/Boolean.pm
No license file was found, but licenses were detected in source scan.

abstract: 'JSON (JavaScript Object Notation) encoder/decoder'

author:

- 'Makamaka Hannyaharamitu, E<lt>makamaka[at]cpan.orgE<gt>'

build_requires:

ExtUtils::MakeMaker: '0'

configure_requires:

ExtUtils::MakeMaker: '0'

dynamic_config: 1

generated_by: 'ExtUtils::MakeMaker version 7.24, CPAN::Meta::Converter version 2.150010'

license: perl

meta-spec:

url: <http://module-build.sourceforge.net/META-spec-v1.4.html>

```
version: '1.4'
name: JSON
no_index:
directory:
  - t
  - inc
recommends:
  JSON::XS: '2.34'
requires:
  Test::More: '0'
resources:
  bugtracker: https://github.com/makamaka/JSON/issues
  repository: https://github.com/makamaka/JSON
version: '4.02'
x_serialization_backend: 'CPAN::Meta::YAML version 0.012'
```

Found in path(s):

```
* /opt/cola/permits/1146693972_1616600962.38/0/libjson-perl-4-02000-orig-1-tar-gz/JSON-4.02/META.yml
```

No license file was found, but licenses were detected in source scan.

=pod

=head1 NAME

JSON::PP - JSON::XS compatible pure-Perl module.

=head1 SYNOPSIS

```
use JSON::PP;
```

```
# exported functions, they croak on error
```

```
# and expect/generate UTF-8
```

```
$utf8_encoded_json_text = encode_json $perl_hash_or_arrayref;
```

```
$perl_hash_or_arrayref = decode_json $utf8_encoded_json_text;
```

```
# OO-interface
```

```
$json = JSON::PP->new->ascii->pretty->allow_nonref;
```

```
$pretty_printed_json_text = $json->encode( $perl_scalar );
```

```
$perl_scalar = $json->decode( $json_text );
```

```
# Note that JSON version 2.0 and above will automatically use
```

```
# JSON::XS or JSON::PP, so you should be able to just:
```

```
use JSON;
```

=head1 VERSION

4.02

=head1 DESCRIPTION

JSON::PP is a pure perl JSON decoder/encoder, and (almost) compatible to much faster L<JSON::XS> written by Marc Lehmann in C. JSON::PP works as a fallback module when you use L<JSON> module without having installed JSON::XS.

Because of this fallback feature of JSON.pm, JSON::PP tries not to be more JavaScript-friendly than JSON::XS (i.e. not to escape extra characters such as U+2028 and U+2029, etc), in order for you not to lose such JavaScript-friendliness silently when you use JSON.pm and install JSON::XS for speed or by accident. If you need JavaScript-friendly RFC7159-compliant pure perl module, try L<JSON::Tiny>, which is derived from L<Mojolicious> web framework and is also smaller and faster than JSON::PP.

JSON::PP has been in the Perl core since Perl 5.14, mainly for CPAN toolchain modules to parse META.json.

=head1 FUNCTIONAL INTERFACE

This section is taken from JSON::XS almost verbatim. C<encode_json> and C<decode_json> are exported by default.

=head2 encode_json

```
$json_text = encode_json $perl_scalar
```

Converts the given Perl data structure to a UTF-8 encoded, binary string (that is, the string contains octets only). Croaks on error.

This function call is functionally identical to:

```
$json_text = JSON::PP->new->utf8->encode($perl_scalar)
```

Except being faster.

=head2 decode_json

```
$perl_scalar = decode_json $json_text
```

The opposite of C<encode_json>: expects an UTF-8 (binary) string and tries to parse that as an UTF-8 encoded JSON text, returning the resulting

reference. Croaks on error.

This function call is functionally identical to:

```
$perl_scalar = JSON::PP->new->utf8->decode($json_text)
```

Except being faster.

```
=head2 JSON::PP::is_bool
```

```
$is_boolean = JSON::PP::is_bool($scalar)
```

Returns true if the passed scalar represents either `JSON::PP::true` or `JSON::PP::false`, two constants that act like `C<1>` and `C<0>` respectively and are also used to represent JSON `C<true>` and `C<>false>` in Perl strings.

See [L<MAPPING>](#), below, for more information on how JSON values are mapped to Perl.

```
=head1 OBJECT-ORIENTED INTERFACE
```

This section is also taken from `JSON::XS`.

The object oriented interface lets you configure your own encoding or decoding style, within the limits of supported formats.

```
=head2 new
```

```
$json = JSON::PP->new
```

Creates a new `JSON::PP` object that can be used to de/encode JSON strings. All boolean flags described below are by default `I<disabled>` (with the exception of `C<allow_nonref>`, which defaults to `I<enabled>` since version `C<4.0>`).

The mutators for flags all return the `JSON::PP` object again and thus calls can be chained:

```
my $json = JSON::PP->new->utf8->space_after->encode({ a => [1,2]})  
=> {"a": [1, 2]}
```

```
=head2 ascii
```

```
$json = $json->ascii([$enable])
```

```
$enabled = $json->get_ascii
```

If `C<$enable>` is true (or missing), then the `C<encode>` method will not

generate characters outside the code range C<0..127> (which is ASCII). Any Unicode characters outside that range will be escaped using either a single \uXXXX (BMP characters) or a double \uHHHH\uLLLLL escape sequence, as per RFC4627. The resulting encoded JSON text can be treated as a native Unicode string, an ascii-encoded, latin1-encoded or UTF-8 encoded string, or any other superset of ASCII.

If C<\$enable> is false, then the C<encode> method will not escape Unicode characters unless required by the JSON syntax or other flags. This results in a faster and more compact format.

See also the section I<ENCODING/CODESET FLAG NOTES> later in this document.

The main use for this flag is to produce JSON texts that can be transmitted over a 7-bit channel, as the encoded JSON texts will not contain any 8 bit characters.

```
JSON::PP->new->ascii(1)->encode([chr 0x10401])
=> ["\ud801\udc01"]
```

```
=head2 latin1
```

```
$json = $json->latin1([$enable])
```

```
$enabled = $json->get_latin1
```

If C<\$enable> is true (or missing), then the C<encode> method will encode the resulting JSON text as latin1 (or iso-8859-1), escaping any characters outside the code range C<0..255>. The resulting string can be treated as a latin1-encoded JSON text or a native Unicode string. The C<decode> method will not be affected in any way by this flag, as C<decode> by default expects Unicode, which is a strict superset of latin1.

If C<\$enable> is false, then the C<encode> method will not escape Unicode characters unless required by the JSON syntax or other flags.

See also the section I<ENCODING/CODESET FLAG NOTES> later in this document.

The main use for this flag is efficiently encoding binary data as JSON text, as most octets will not be escaped, resulting in a smaller encoded size. The disadvantage is that the resulting JSON text is encoded in latin1 (and must correctly be treated as such when storing and transferring), a rare encoding for JSON. It is therefore most useful when you want to store data structures known to contain binary data efficiently in files or databases, not when talking to other JSON encoders/decoders.

```
JSON::PP->new->latin1->encode(["\x{89}\x{abc}"])
=> ["\x{89}\u0abc"] # (perl syntax, U+abc escaped, U+89 not)
```

```
=head2 utf8
```

```
$json = $json->utf8([$enable])
```

```
$enabled = $json->get_utf8
```

If C<\$enable> is true (or missing), then the C<encode> method will encode the JSON result into UTF-8, as required by many protocols, while the C<decode> method expects to be handled an UTF-8-encoded string. Please note that UTF-8-encoded strings do not contain any characters outside the range C<0..255>, they are thus useful for bitwise/binary I/O. In future versions, enabling this option might enable autodetection of the UTF-16 and UTF-32 encoding families, as described in RFC4627.

If C<\$enable> is false, then the C<encode> method will return the JSON string as a (non-encoded) Unicode string, while C<decode> expects thus a Unicode string. Any decoding or encoding (e.g. to UTF-8 or UTF-16) needs to be done yourself, e.g. using the Encode module.

See also the section I<ENCODING/CODESET FLAG NOTES> later in this document.

Example, output UTF-16BE-encoded JSON:

```
use Encode;
$json_text = encode "UTF-16BE", JSON::PP->new->encode ($object);
```

Example, decode UTF-32LE-encoded JSON:

```
use Encode;
$object = JSON::PP->new->decode (decode "UTF-32LE", $json_text);
```

```
=head2 pretty
```

```
$json = $json->pretty([$enable])
```

This enables (or disables) all of the C<indent>, C<space_before> and C<space_after> (and in the future possibly more) flags in one call to generate the most readable (or most compact) form possible.

```
=head2 indent
```

```
$json = $json->indent([$enable])
```

```
$enabled = $json->get_indent
```

If C<\$enable> is true (or missing), then the C<encode> method will use a multiline format as output, putting every array member or object/hash key-value pair

into its own line, indenting them properly.

If `C<$enable>` is false, no newlines or indenting will be produced, and the resulting JSON text is guaranteed not to contain any `C<newlines>`.

This setting has no effect when decoding JSON texts.

The default indent space length is three.

You can use `C<indent_length>` to change the length.

=head2 space_before

```
$json = $json->space_before([$enable])
```

```
$enabled = $json->get_space_before
```

If `C<$enable>` is true (or missing), then the `C<encode>` method will add an extra optional space before the `C<:>` separating keys from values in JSON objects.

If `C<$enable>` is false, then the `C<encode>` method will not add any extra space at those places.

This setting has no effect when decoding JSON texts. You will also most likely combine this setting with `C<space_after>`.

Example, space_before enabled, space_after and indent disabled:

```
{"key" : "value" }
```

=head2 space_after

```
$json = $json->space_after([$enable])
```

```
$enabled = $json->get_space_after
```

If `C<$enable>` is true (or missing), then the `C<encode>` method will add an extra optional space after the `C<:>` separating keys from values in JSON objects and extra whitespace after the `C<,>` separating key-value pairs and array members.

If `C<$enable>` is false, then the `C<encode>` method will not add any extra space at those places.

This setting has no effect when decoding JSON texts.

Example, space_before and indent disabled, space_after enabled:

```
{"key": "value" }
```

=head2 relaxed

```
$json = $json->relaxed([$enable])
```

```
$enabled = $json->get_relaxed
```

If C<\$enable> is true (or missing), then C<decode> will accept some extensions to normal JSON syntax (see below). C<encode> will not be affected in anyway. I<Be aware that this option makes you accept invalid JSON texts as if they were valid!>. I suggest only to use this option to parse application-specific files written by humans (configuration files, resource files etc.)

If C<\$enable> is false (the default), then C<decode> will only accept valid JSON texts.

Currently accepted extensions are:

=over 4

=item * list items can have an end-comma

JSON I<separates> array elements and key-value pairs with commas. This can be annoying if you write JSON texts manually and want to be able to quickly append elements, so this extension accepts comma at the end of such items not just between them:

```
[
  1,
  2, <- this comma not normally allowed
]
{
  "k1": "v1",
  "k2": "v2", <- this comma not normally allowed
}
```

=item * shell-style '#'-comments

Whenever JSON allows whitespace, shell-style comments are additionally allowed. They are terminated by the first carriage-return or line-feed character, after which more white-space and comments are allowed.

```
[
  1, # this comment not allowed in JSON
    # neither this one...
]
```

=item * C-style multiple-line `/* */`-comments (JSON::PP only)

Whenever JSON allows whitespace, C-style multiple-line comments are additionally allowed. Everything between `C<*/>` and `C<*/>` is a comment, after which more white-space and comments are allowed.

```
[
  1, /* this comment not allowed in JSON */
     /* neither this one... */
]
```

=item * C++-style one-line `//`-comments (JSON::PP only)

Whenever JSON allows whitespace, C++-style one-line comments are additionally allowed. They are terminated by the first carriage-return or line-feed character, after which more white-space and comments are allowed.

```
[
  1, // this comment not allowed in JSON
     // neither this one...
]
```

=item * literal ASCII TAB characters in strings

Literal ASCII TAB characters are now allowed in strings (and treated as `C<\t>`).

```
[
  "Hello\tWorld",
  "Hello<TAB>World", # literal <TAB> would not normally be allowed
]
```

=back

=head2 canonical

```
$json = $json->canonical([$enable])
```

```
$enabled = $json->get_canonical
```

If `C<$enable>` is true (or missing), then the `C<encode>` method will output JSON objects by sorting their keys. This is adding a comparatively high overhead.

If `C<$enable>` is false, then the `C<encode>` method will output key-value pairs in the order Perl stores them (which will likely change between runs of the same script, and can change even within the same run from 5.18 onwards).

This option is useful if you want the same data structure to be encoded as the same JSON text (given the same overall settings). If it is disabled, the same hash might be encoded differently even if contains the same data, as key-value pairs have no inherent ordering in Perl.

This setting has no effect when decoding JSON texts.

This setting has currently no effect on tied hashes.

```
=head2 allow_nonref
```

```
$json = $json->allow_nonref([$enable])
```

```
$enabled = $json->get_allow_nonref
```

Unlike other boolean options, this option is enabled by default beginning with version C<4.0>.

If C<\$enable> is true (or missing), then the C<encode> method can convert a non-reference into its corresponding string, number or null JSON value, which is an extension to RFC4627. Likewise, C<decode> will accept those JSON values instead of croaking.

If C<\$enable> is false, then the C<encode> method will croak if it isn't passed an arrayref or hashref, as JSON texts must either be an object or array. Likewise, C<decode> will croak if given something that is not a JSON object or array.

Example, encode a Perl scalar as JSON value without enabled C<allow_nonref>, resulting in an error:

```
JSON::PP->new->allow_nonref(0)->encode ("Hello, World!")  
=> hash- or arrayref expected...
```

```
=head2 allow_unknown
```

```
$json = $json->allow_unknown([$enable])
```

```
$enabled = $json->get_allow_unknown
```

If C<\$enable> is true (or missing), then C<encode> will I<not> throw an exception when it encounters values it cannot represent in JSON (for example, filehandles) but instead will encode a JSON C<null> value. Note that blessed objects are not included here and are handled separately by C<allow_blessed>.

If C<\$enable> is false (the default), then C<encode> will throw an exception when it encounters anything it cannot encode as JSON.

This option does not affect C<decode> in any way, and it is recommended to leave it off unless you know your communications partner.

```
=head2 allow_blessed
```

```
$json = $json->allow_blessed([$enable])
```

```
$enabled = $json->get_allow_blessed
```

See L<OBJECT SERIALISATION> for details.

If C<\$enable> is true (or missing), then the C<encode> method will not barf when it encounters a blessed reference that it cannot convert otherwise. Instead, a JSON C<null> value is encoded instead of the object.

If C<\$enable> is false (the default), then C<encode> will throw an exception when it encounters a blessed object that it cannot convert otherwise.

This setting has no effect on C<decode>.

```
=head2 convert_blessed
```

```
$json = $json->convert_blessed([$enable])
```

```
$enabled = $json->get_convert_blessed
```

See L<OBJECT SERIALISATION> for details.

If C<\$enable> is true (or missing), then C<encode>, upon encountering a blessed object, will check for the availability of the C<TO_JSON> method on the object's class. If found, it will be called in scalar context and the resulting scalar will be encoded instead of the object.

The C<TO_JSON> method may safely call die if it wants. If C<TO_JSON> returns other blessed objects, those will be handled in the same way. C<TO_JSON> must take care of not causing an endless recursion cycle (== crash) in this case. The name of C<TO_JSON> was chosen because other methods called by the Perl core (== not by the user of the object) are usually in upper case letters and to avoid collisions with any C<to_json> function or method.

If C<\$enable> is false (the default), then C<encode> will not consider this type of conversion.

This setting has no effect on C<decode>.

=head2 allow_tags

```
$json = $json->allow_tags([$enable])
```

```
$enabled = $json->get_allow_tags
```

See L<OBJECT SERIALISATION> for details.

If C<\$enable> is true (or missing), then C<encode>, upon encountering a blessed object, will check for the availability of the C<FREEZE> method on the object's class. If found, it will be used to serialise the object into a nonstandard tagged JSON value (that JSON decoders cannot decode).

It also causes C<decode> to parse such tagged JSON values and deserialise them via a call to the C<THAW> method.

If C<\$enable> is false (the default), then C<encode> will not consider this type of conversion, and tagged JSON values will cause a parse error in C<decode>, as if tags were not part of the grammar.

=head2 boolean_values

```
$json->boolean_values([$false, $true])
```

```
($false, $true) = $json->get_boolean_values
```

By default, JSON booleans will be decoded as overloaded C<\$JSON::PP::false> and C<\$JSON::PP::true> objects.

With this method you can specify your own boolean values for decoding - on decode, JSON C<false> will be decoded as a copy of C<\$false>, and JSON C<true> will be decoded as C<\$true> ("copy" here is the same thing as assigning a value to another variable, i.e. C<\$copy = \$false>).

This is useful when you want to pass a decoded data structure directly to other serialisers like YAML, Data::MessagePack and so on.

Note that this works only when you C<decode>. You can set incompatible boolean objects (like L<boolean>), but when you C<encode> a data structure with such boolean objects, you still need to enable C<convert_blessed> (and add a C<TO_JSON> method if necessary).

Calling this method without any arguments will reset the booleans to their default values.

C<get_boolean_values> will return both C<\$false> and C<\$true> values, or the empty list when they are set to the default.

```
=head2 filter_json_object
```

```
$json = $json->filter_json_object([$coderef])
```

When `C<$coderef>` is specified, it will be called from `C<decode>` each time it decodes a JSON object. The only argument is a reference to the newly-created hash. If the code references returns a single scalar (which need not be a reference), this value (or rather a copy of it) is inserted into the deserialised data structure. If it returns an empty list (NOTE: I<not> `C<undef>`, which is a valid scalar), the original deserialised hash will be inserted. This setting can slow down decoding considerably.

When `C<$coderef>` is omitted or undefined, any existing callback will be removed and `C<decode>` will not change the deserialised hash in any way.

Example, convert all JSON objects into the integer 5:

```
my $js = JSON::PP->new->filter_json_object(sub { 5 });
# returns [5]
$js->decode('{}');
# returns 5
$js->decode '{"a":1, "b":2}');
```

```
=head2 filter_json_single_key_object
```

```
$json = $json->filter_json_single_key_object($key [=> $coderef])
```

Works remotely similar to `C<filter_json_object>`, but is only called for JSON objects having a single key named `C<$key>`.

This `C<$coderef>` is called before the one specified via `C<filter_json_object>`, if any. It gets passed the single value in the JSON object. If it returns a single value, it will be inserted into the data structure. If it returns nothing (not even `C<undef>` but the empty list), the callback from `C<filter_json_object>` will be called next, as if no single-key callback were specified.

If `C<$coderef>` is omitted or undefined, the corresponding callback will be disabled. There can only ever be one callback for a given key.

As this callback gets called less often than the `C<filter_json_object>` one, decoding speed will not usually suffer as much. Therefore, single-key objects make excellent targets to serialise Perl objects into, especially as single-key JSON objects are as close to the type-tagged value concept as JSON gets (it's basically an ID/VALUE tuple). Of course, JSON does not support this in any way, so you need to make sure your data never looks

like a serialised Perl hash.

Typical names for the single object key are C<__class_whatever__>, or C<\$__dollars_are_rarely_used__\$> or C<}ugly_brace_placement>, or even things like C<__class_md5sum(classname)__>, to reduce the risk of clashing with real hashes.

Example, decode JSON objects of the form C<< { "__widget__" => <id> } >> into the corresponding C<< \$WIDGET{<id>} >> object:

```
# return whatever is in $WIDGET{5}:
JSON::PP
->new
->filter_json_single_key_object (__widget__ => sub {
    $WIDGET{ $_[0] }
})
->decode ('{"__widget__": 5')

# this can be used with a TO_JSON method in some "widget" class
# for serialisation to json:
sub WidgetBase::TO_JSON {
    my ($self) = @_;

    unless ($self->{id}) {
        $self->{id} = ..get..some..id..;
        $WIDGET{$self->{id}} = $self;
    }

    { __widget__ => $self->{id} }
}

=head2 shrink

$json = $json->shrink([$enable])

$enabled = $json->get_shrink
```

If C<\$enable> is true (or missing), the string returned by C<encode> will be shrunk (i.e. downgraded if possible).

The actual definition of what shrink does might change in future versions, but it will always try to save space at the expense of time.

If C<\$enable> is false, then JSON::PP does nothing.

```
=head2 max_depth

$json = $json->max_depth([$maximum_nesting_depth])
```

```
$max_depth = $json->get_max_depth
```

Sets the maximum nesting level (default C<512>) accepted while encoding or decoding. If a higher nesting level is detected in JSON text or a Perl data structure, then the encoder and decoder will stop and croak at that point.

Nesting level is defined by number of hash- or arrayrefs that the encoder needs to traverse to reach a given point or the number of C<{> or C<[> characters without their matching closing parenthesis crossed to reach a given character in a string.

Setting the maximum depth to one disallows any nesting, so that ensures that the object is only a single hash/object or array.

If no argument is given, the highest possible setting will be used, which is rarely useful.

See L<JSON::XS/SECURITY CONSIDERATIONS> for more info on why this is useful.

```
=head2 max_size
```

```
$json = $json->max_size([$maximum_string_size])
```

```
$max_size = $json->get_max_size
```

Set the maximum length a JSON text may have (in bytes) where decoding is being attempted. The default is C<0>, meaning no limit. When C<decode> is called on a string that is longer than this many bytes, it will not attempt to decode the string but throw an exception. This setting has no effect on C<encode> (yet).

If no argument is given, the limit check will be deactivated (same as when C<0> is specified).

See L<JSON::XS/SECURITY CONSIDERATIONS> for more info on why this is useful.

```
=head2 encode
```

```
$json_text = $json->encode($perl_scalar)
```

Converts the given Perl value or data structure to its JSON representation. Croaks on error.

```
=head2 decode
```

```
$perl_scalar = $json->decode($json_text)
```

The opposite of `C<encode>`: expects a JSON text and tries to parse it, returning the resulting simple scalar or reference. Croaks on error.

```
=head2 decode_prefix
```

```
($perl_scalar, $characters) = $json->decode_prefix($json_text)
```

This works like the `C<decode>` method, but instead of raising an exception when there is trailing garbage after the first JSON object, it will silently stop parsing there and return the number of characters consumed so far.

This is useful if your JSON texts are not delimited by an outer protocol and you need to know where the JSON text ends.

```
JSON::PP->new->decode_prefix("[1] the tail")  
=> ([1], 3)
```

```
=head1 FLAGS FOR JSON::PP ONLY
```

The following flags and properties are for `JSON::PP` only. If you use any of these, you can't make your application run faster by replacing `JSON::PP` with `JSON::XS`. If you need these and also speed boost, you might want to try `L<Cpanel::JSON::XS>`, a fork of `JSON::XS` by Reini Urban, which supports some of these (with a different set of incompatibilities). Most of these historical flags are only kept for backward compatibility, and should not be used in a new application.

```
=head2 allow_singlequote
```

```
$json = $json->allow_singlequote([$enable])  
$enabled = $json->get_allow_singlequote
```

If `C<$enable>` is true (or missing), then `C<decode>` will accept invalid JSON texts that contain strings that begin and end with single quotation marks. `C<encode>` will not be affected in any way. **I<Be aware that this option makes you accept invalid JSON texts as if they were valid!>. I suggest only to use this option to parse application-specific files written by humans (configuration files, resource files etc.)**

If `C<$enable>` is false (the default), then `C<decode>` will only accept valid JSON texts.

```
$json->allow_singlequote->decode(qq{"foo":'bar'});  
$json->allow_singlequote->decode(qq{'foo':"bar"});  
$json->allow_singlequote->decode(qq{'foo':'bar'});
```

=head2 allow_barekey

```
$json = $json->allow_barekey([$enable])  
$enabled = $json->get_allow_barekey
```

If C<\$enable> is true (or missing), then C<decode> will accept invalid JSON texts that contain JSON objects whose names don't begin and end with quotation marks. C<encode> will not be affected in any way. I<Be aware that this option makes you accept invalid JSON texts as if they were valid!>. I suggest only to use this option to parse application-specific files written by humans (configuration files, resource files etc.)

If C<\$enable> is false (the default), then C<decode> will only accept valid JSON texts.

```
$json->allow_barekey->decode(qq|{foo:"bar"}|);
```

=head2 allow_bignum

```
$json = $json->allow_bignum([$enable])  
$enabled = $json->get_allow_bignum
```

If C<\$enable> is true (or missing), then C<decode> will convert big integers Perl cannot handle as integer into L<Math::BigInt> objects and convert floating numbers into L<Math::BigFloat> objects. C<encode> will convert C<Math::BigInt> and C<Math::BigFloat> objects into JSON numbers.

```
$json->allow_nonref->allow_bignum;  
$bigfloat = $json->decode('2.00000000000000000000000000000001');  
print $json->encode($bigfloat);  
# => 2.00000000000000000000000000000001
```

See also L<MAPPING>.

=head2 loose

```
$json = $json->loose([$enable])  
$enabled = $json->get_loose
```

If C<\$enable> is true (or missing), then C<decode> will accept invalid JSON texts that contain unescaped [`\x00-\x1f\x22\x5c`] characters. C<encode> will not be affected in any way. I<Be aware that this option makes you accept invalid JSON texts as if they were valid!>. I suggest only to use this option to parse application-specific files written by humans (configuration

files, resource files etc.)

If C<\$enable> is false (the default), then C<decode> will only accept valid JSON texts.

```
$json->loose->decode(qq["abc
    def"]);
```

=head2 escape_slash

```
$json = $json->escape_slash([$enable])
$enabled = $json->get_escape_slash
```

If C<\$enable> is true (or missing), then C<encode> will explicitly escape I<slash> (solidus; C<U+002F>) characters to reduce the risk of XSS (cross site scripting) that may be caused by C<< </script> >> in a JSON text, with the cost of bloating the size of JSON texts.

This option may be useful when you embed JSON in HTML, but embedding arbitrary JSON in HTML (by some HTML template toolkit or by string interpolation) is risky in general. You must escape necessary characters in correct order, depending on the context.

C<decode> will not be affected in any way.

=head2 indent_length

```
$json = $json->indent_length($number_of_spaces)
$length = $json->get_indent_length
```

This option is only useful when you also enable C<indent> or C<pretty>.

JSON::XS indents with three spaces when you C<encode> (if requested by C<indent> or C<pretty>), and the number cannot be changed. JSON::PP allows you to change/get the number of indent spaces with these mutator/accessor. The default number of spaces is three (the same as JSON::XS), and the acceptable range is from C<0> (no indentation; it'd be better to disable indentation by C<indent(0)>) to C<15>.

=head2 sort_by

```
$json = $json->sort_by($code_ref)
$json = $json->sort_by($subroutine_name)
```

If you just want to sort keys (names) in JSON objects when you C<encode>, enable C<canonical> option (see above) that allows you to sort object keys alphabetically.

If you do need to sort non-alphabetically for whatever reasons, you can give a code reference (or a subroutine name) to `C<sort_by>`, then the argument will be passed to Perl's `C<sort>` built-in function.

As the sorting is done in the `JSON::PP` scope, you usually need to prepend `C<JSON::PP::>` to the subroutine name, and the special variables `C<$a>` and `C<$b>` used in the subroutine used by `C<sort>` function.

Example:

```
my %ORDER = (id => 1, class => 2, name => 3);
$json->sort_by(sub {
    ($ORDER{$JSON::PP::a} // 999) <=> ($ORDER{$JSON::PP::b} // 999)
    or $JSON::PP::a cmp $JSON::PP::b
});
print $json->encode([
    {name => 'CPAN', id => 1, href => 'http://cpan.org'}
]);
# [{"id":1,"name":"CPAN","href":"http://cpan.org"}]
```

Note that `C<sort_by>` affects all the plain hashes in the data structure. If you need finer control, `C<tie>` necessary hashes with a module that implements ordered hash (such as `L<Hash::Ordered>` and `L<Tie::IxHash>`). `C<canonical>` and `C<sort_by>` don't affect the key order in `C<tie>`d hashes.

```
use Hash::Ordered;
tie my %hash, 'Hash::Ordered',
    (name => 'CPAN', id => 1, href => 'http://cpan.org');
print $json->encode([\%hash]);
# [{"name":"CPAN","id":1,"href":"http://cpan.org"}] # order is kept
```

=head1 INCREMENTAL PARSING

This section is also taken from `JSON::XS`.

In some cases, there is the need for incremental parsing of JSON texts. While this module always has to keep both JSON text and resulting Perl data structure in memory at one time, it does allow you to parse a JSON stream incrementally. It does so by accumulating text until it has a full JSON object, which it then can decode. This process is similar to using `C<decode_prefix>` to see if a full JSON object is available, but is much more efficient (and can be implemented with a minimum of method calls).

`JSON::PP` will only attempt to parse the JSON text once it is sure it has enough text to get a decisive result, using a very simple but truly incremental parser. This means that it sometimes won't stop as

early as the full parser, for example, it doesn't detect mismatched parentheses. The only thing it guarantees is that it starts decoding as soon as a syntactically valid JSON text has been seen. This means you need to set resource limits (e.g. `C<max_size>`) to ensure the parser will stop parsing in the presence of syntax errors.

The following methods implement this incremental parser.

```
=head2 incr_parse
```

```
$json->incr_parse( [$string] ) # void context
```

```
$obj_or_undef = $json->incr_parse( [$string] ) # scalar context
```

```
@obj_or_empty = $json->incr_parse( [$string] ) # list context
```

This is the central parsing function. It can both append new text and extract objects from the stream accumulated so far (both of these functions are optional).

If `C<$string>` is given, then this string is appended to the already existing JSON fragment stored in the `C<$json>` object.

After that, if the function is called in void context, it will simply return without doing anything further. This can be used to add more text in as many chunks as you want.

If the method is called in scalar context, then it will try to extract exactly `I<one>` JSON object. If that is successful, it will return this object, otherwise it will return `C<undef>`. If there is a parse error, this method will croak just as `C<decode>` would do (one can then use `C<incr_skip>` to skip the erroneous part). This is the most common way of using the method.

And finally, in list context, it will try to extract as many objects from the stream as it can find and return them, or the empty list otherwise. For this to work, there must be no separators (other than whitespace) between the JSON objects or arrays, instead they must be concatenated back-to-back. If an error occurs, an exception will be raised as in the scalar context case. Note that in this case, any previously-parsed JSON texts will be lost.

Example: Parse some JSON arrays/objects in a given string and return them.

```
my @objs = JSON::PP->new->incr_parse ("[5][7][1,2]");
```

```
=head2 incr_text
```

```
$lvalue_string = $json->incr_text
```

This method returns the currently stored JSON fragment as an lvalue, that is, you can manipulate it. This I<only> works when a preceding call to C<incr_parse> in I<scalar context> successfully returned an object. Under all other circumstances you must not call this function (I mean it, although in simple tests it might actually work, it I<will> fail under real world conditions). As a special exception, you can also call this method before having parsed anything.

That means you can only use this function to look at or manipulate text before or after complete JSON objects, not while the parser is in the middle of parsing a JSON object.

This function is useful in two cases: a) finding the trailing text after a JSON object or b) parsing multiple JSON objects separated by non-JSON text (such as commas).

```
=head2 incr_skip
```

```
$json->incr_skip
```

This will reset the state of the incremental parser and will remove the parsed text from the input buffer so far. This is useful after C<incr_parse> died, in which case the input buffer and incremental parser state is left unchanged, to skip the text parsed so far and to reset the parse state.

The difference to C<incr_reset> is that only text until the parse error occurred is removed.

```
=head2 incr_reset
```

```
$json->incr_reset
```

This completely resets the incremental parser, that is, after this call, it will be as if the parser had never parsed anything.

This is useful if you want to repeatedly parse JSON objects and want to ignore any trailing data, which means you have to reset the parser after each successful decode.

```
=head1 MAPPING
```

Most of this section is also taken from JSON::XS.

This section describes how JSON::PP maps Perl values to JSON values and

vice versa. These mappings are designed to "do the right thing" in most circumstances automatically, preserving round-tripping characteristics (what you put in comes out as something equivalent).

For the more enlightened: note that in the following descriptions, lowercase I<perl> refers to the Perl interpreter, while uppercase I<Perl> refers to the abstract Perl language itself.

=head2 JSON -> PERL

=over 4

=item object

A JSON object becomes a reference to a hash in Perl. No ordering of object keys is preserved (JSON does not preserve object key ordering itself).

=item array

A JSON array becomes a reference to an array in Perl.

=item string

A JSON string becomes a string scalar in Perl - Unicode codepoints in JSON are represented by the same codepoints in the Perl string, so no manual decoding is necessary.

=item number

A JSON number becomes either an integer, numeric (floating point) or string scalar in perl, depending on its range and any fractional parts. On the Perl level, there is no difference between those as Perl handles all the conversion details, but an integer may take slightly less memory and might represent more values exactly than floating point numbers.

If the number consists of digits only, JSON::PP will try to represent it as an integer value. If that fails, it will try to represent it as a numeric (floating point) value if that is possible without loss of precision. Otherwise it will preserve the number as a string value (in which case you lose roundtripping ability, as the JSON number will be re-encoded to a JSON string).

Numbers containing a fractional or exponential part will always be represented as numeric (floating point) values, possibly at a loss of precision (in which case you might lose perfect roundtripping ability, but the JSON number will still be re-encoded as a JSON number).

Note that precision is not accuracy - binary floating point values cannot

represent most decimal fractions exactly, and when converting from and to floating point, JSON::PP only guarantees precision up to but not including the least significant bit.

When C<allow_bignum> is enabled, big integer values and any numeric values will be converted into L<Math::BigInt> and L<Math::BigFloat> objects respectively, without becoming string scalars or losing precision.

=item true, false

These JSON atoms become C<JSON::PP::true> and C<JSON::PP::false>, respectively. They are overloaded to act almost exactly like the numbers C<1> and C<0>. You can check whether a scalar is a JSON boolean by using the C<JSON::PP::is_bool> function.

=item null

A JSON null atom becomes C<undef> in Perl.

=item shell-style comments (C<< # I<text> >>)

As a nonstandard extension to the JSON syntax that is enabled by the C<relaxed> setting, shell-style comments are allowed. They can start anywhere outside strings and go till the end of the line.

=item tagged values (C<< (I<tag>)I<value> >>).

Another nonstandard extension to the JSON syntax, enabled with the C<allow_tags> setting, are tagged values. In this implementation, the I<tag> must be a perl package/class name encoded as a JSON string, and the I<value> must be a JSON array encoding optional constructor arguments.

See L<OBJECT SERIALISATION>, below, for details.

=back

=head2 PERL -> JSON

The mapping from Perl to JSON is slightly more difficult, as Perl is a truly typeless language, so we can only guess which JSON type is meant by a Perl value.

=over 4

=item hash references

Perl hash references become JSON objects. As there is no inherent ordering in hash keys (or JSON objects), they will usually be encoded in a pseudo-random order. `JSON::PP` can optionally sort the hash keys (determined by the `I<canonical>` flag and/or `I<sort_by>` property), so the same data structure will serialise to the same JSON text (given same settings and version of `JSON::PP`), but this incurs a runtime overhead and is only rarely useful, e.g. when you want to compare some JSON text against another for equality.

=item array references

Perl array references become JSON arrays.

=item other references

Other unblessed references are generally not allowed and will cause an exception to be thrown, except for references to the integers `C<0>` and `C<1>`, which get turned into `C<false>` and `C<true>` atoms in JSON. You can also use `C<JSON::PP::false>` and `C<JSON::PP::true>` to improve readability.

```
to_json [0, JSON::PP::true] # yields [false,true]
```

=item `JSON::PP::true`, `JSON::PP::false`

These special values become JSON true and JSON false values, respectively. You can also use `C<1>` and `C<0>` directly if you want.

=item `JSON::PP::null`

This special value becomes JSON null.

=item blessed objects

Blessed objects are not directly representable in JSON, but `C<JSON::PP>` allows various ways of handling objects. See [L<OBJECT SERIALISATION>](#), below, for details.

=item simple scalars

Simple Perl scalars (any scalar that is not a reference) are the most difficult objects to encode: `JSON::PP` will encode undefined scalars as JSON `C<null>` values, scalars that have last been used in a string context before encoding as JSON strings, and anything else as number value:

```
# dump as number
encode_json [2]          # yields [2]
encode_json [-3.0e17]    # yields [-3e+17]
```

```
my $value = 5; encode_json [$value] # yields [5]
```

```
# used as string, so dump as string  
print $value;  
encode_json [$value] # yields ["5"]
```

```
# undef becomes null  
encode_json [undef] # yields [null]
```

You can force the type to be a JSON string by stringifying it:

```
my $x = 3.1; # some variable containing a number  
"$x"; # stringified  
$x .= ""; # another, more awkward way to stringify  
print $x; # perl does it for you, too, quite often  
# (but for older perls)
```

You can force the type to be a JSON number by numifying it:

```
my $x = "3"; # some variable containing a string  
$x += 0; # numify it, ensuring it will be dumped as a number  
$x *= 1; # same thing, the choice is yours.
```

You can not currently force the type in other, less obscure, ways.

Since version 2.91_01, JSON::PP uses a different number detection logic that converts a scalar that is possible to turn into a number safely. The new logic is slightly faster, and tends to help people who use older perl or who want to encode complicated data structure. However, this may result in a different JSON text from the one JSON::XS encodes (and thus may break tests that compare entire JSON texts). If you do need the previous behavior for compatibility or for finer control, set PERL_JSON_PP_USE_B environmental variable to true before you C<use> JSON::PP (or JSON.pm).

Note that numerical precision has the same meaning as under Perl (so binary to decimal conversion follows the same rules as in Perl, which can differ to other languages). Also, your perl interpreter might expose extensions to the floating point numbers of your platform, such as infinities or NaN's - these cannot be represented in JSON, and it is an error to pass those in.

JSON::PP (and JSON::XS) trusts what you pass to C<encode> method (or C<encode_json> function) is a clean, validated data structure with values that can be represented as valid JSON values only, because it's not from an external data source (as opposed to JSON texts you pass to C<decode> or C<decode_json>, which JSON::PP considers tainted and doesn't trust). As JSON::PP doesn't know exactly what you and consumers

of your JSON texts want the unexpected values to be (you may want to convert them into null, or to stringify them with or without normalisation (string representation of infinities/NaN may vary depending on platforms), or to croak without conversion), you're advised to do what you and your consumers need before you encode, and also not to numify values that may start with values that look like a number (including infinities/NaN), without validating.

=back

=head2 OBJECT SERIALISATION

As JSON cannot directly represent Perl objects, you have to choose between a pure JSON representation (without the ability to deserialise the object automatically again), and a nonstandard extension to the JSON syntax, tagged values.

=head3 SERIALISATION

What happens when C<JSON::PP> encounters a Perl object depends on the C<allow_blessed>, C<convert_blessed>, C<allow_tags> and C<allow_bignum> settings, which are used in this order:

=over 4

=item 1. C<allow_tags> is enabled and the object has a C<FREEZE> method.

In this case, C<JSON::PP> creates a tagged JSON value, using a nonstandard extension to the JSON syntax.

This works by invoking the C<FREEZE> method on the object, with the first argument being the object to serialise, and the second argument being the constant string C<JSON> to distinguish it from other serialisers.

The C<FREEZE> method can return any number of values (i.e. zero or more). These values and the package/classname of the object will then be encoded as a tagged JSON value in the following format:

```
("classname")[FREEZE return values...]
```

e.g.:

```
("URI")["http://www.google.com/"]  
("MyDate")["2013,10,29"]  
("ImageData::JPEG")["Z3...VICg=="]
```

For example, the hypothetical C<My::Object> C<FREEZE> method might use the objects C<type> and C<id> members to encode the object:

```

sub My::Object::FREEZE {
    my ($self, $serialiser) = @_;

    ($self->{type}, $self->{id})
}

```

=item 2. C<convert_blessed> is enabled and the object has a C<TO_JSON> method.

In this case, the C<TO_JSON> method of the object is invoked in scalar context. It must return a single scalar that can be directly encoded into JSON. This scalar replaces the object in the JSON text.

For example, the following C<TO_JSON> method will convert all L<URI> objects to JSON strings when serialised. The fact that these values originally were L<URI> objects is lost.

```

sub URI::TO_JSON {
    my ($uri) = @_;
    $uri->as_string
}

```

=item 3. C<allow_bignum> is enabled and the object is a C<Math::BigInt> or C<Math::BigFloat>.

The object will be serialised as a JSON number value.

=item 4. C<allow_blessed> is enabled.

The object will be serialised as a JSON null value.

=item 5. none of the above

If none of the settings are enabled or the respective methods are missing, C<JSON::PP> throws an exception.

=back

=head3 DESERIALISATION

For deserialisation there are only two cases to consider: either nonstandard tagging was used, in which case C<allow_tags> decides, or objects cannot be automatically be deserialised, in which case you can use postprocessing or the C<filter_json_object> or C<filter_json_single_key_object> callbacks to get some real objects out of your JSON.

This section only considers the tagged value case: a tagged JSON object is encountered during decoding and C<allow_tags> is disabled, a parse

error will result (as if tagged values were not part of the grammar).

If `C<allow_tags>` is enabled, `C<JSON::PP>` will look up the `C<THAW>` method of the package/classname used during serialisation (it will not attempt to load the package as a Perl module). If there is no such method, the decoding will fail with an error.

Otherwise, the `C<THAW>` method is invoked with the classname as first argument, the constant string `C<JSON>` as second argument, and all the values from the JSON array (the values originally returned by the `C<FREEZE>` method) as remaining arguments.

The method must then return the object. While technically you can return any Perl scalar, you might have to enable the `C<allow_nonref>` setting to make that work in all cases, so better return an actual blessed reference.

As an example, let's implement a `C<THAW>` function that regenerates the `C<My::Object>` from the `C<FREEZE>` example earlier:

```
sub My::Object::THAW {
    my ($class, $serialiser, $type, $id) = @_;

    $class->new (type => $type, id => $id)
}
```

=head1 ENCODING/CODESET FLAG NOTES

This section is taken from `JSON::XS`.

The interested reader might have seen a number of flags that signify encodings or codesets - `C<utf8>`, `C<latin1>` and `C<ascii>`. There seems to be some confusion on what these do, so here is a short comparison:

`C<utf8>` controls whether the JSON text created by `C<encode>` (and expected by `C<decode>`) is UTF-8 encoded or not, while `C<latin1>` and `C<ascii>` only control whether `C<encode>` escapes character values outside their respective codeset range. Neither of these flags conflict with each other, although some combinations make less sense than others.

Care has been taken to make all flags symmetrical with respect to `C<encode>` and `C<decode>`, that is, texts encoded with any combination of these flag values will be correctly decoded when the same flags are used - in general, if you use different flag settings while encoding vs. when decoding you likely have a bug somewhere.

Below comes a verbose discussion of these flags. Note that a "codeset" is simply an abstract set of character-codepoint pairs, while an encoding

takes those codepoint numbers and I<encodes> them, in our case into octets. Unicode is (among other things) a codeset, UTF-8 is an encoding, and ISO-8859-1 (= latin 1) and ASCII are both codesets I<and> encodings at the same time, which can be confusing.

=over 4

=item C<utf8> flag disabled

When C<utf8> is disabled (the default), then C<encode>/C<decode> generate and expect Unicode strings, that is, characters with high ordinal Unicode values (> 255) will be encoded as such characters, and likewise such characters are decoded as-is, no changes to them will be done, except "(re-)interpreting" them as Unicode codepoints or Unicode characters, respectively (to Perl, these are the same thing in strings unless you do funny/weird/dumb stuff).

This is useful when you want to do the encoding yourself (e.g. when you want to have UTF-16 encoded JSON texts) or when some other layer does the encoding for you (for example, when printing to a terminal using a filehandle that transparently encodes to UTF-8 you certainly do NOT want to UTF-8 encode your data first and have Perl encode it another time).

=item C<utf8> flag enabled

If the C<utf8>-flag is enabled, C<encode>/C<decode> will encode all characters using the corresponding UTF-8 multi-byte sequence, and will expect your input strings to be encoded as UTF-8, that is, no "character" of the input string must have any value > 255, as UTF-8 does not allow that.

The C<utf8> flag therefore switches between two modes: disabled means you will get a Unicode string in Perl, enabled means you get an UTF-8 encoded octet/binary string in Perl.

=item C<latin1> or C<ascii> flags enabled

With C<latin1> (or C<ascii>) enabled, C<encode> will escape characters with ordinal values > 255 (> 127 with C<ascii>) and encode the remaining characters as specified by the C<utf8> flag.

If C<utf8> is disabled, then the result is also correctly encoded in those character sets (as both are proper subsets of Unicode, meaning that a Unicode string with all character values < 256 is the same thing as a ISO-8859-1 string, and a Unicode string with all character values < 128 is the same thing as an ASCII string in Perl).

If C<utf8> is enabled, you still get a correct UTF-8-encoded string,

regardless of these flags, just some more characters will be escaped using C<\uXXXX> then before.

Note that ISO-8859-1-I<encoded> strings are not compatible with UTF-8 encoding, while ASCII-encoded strings are. That is because the ISO-8859-1 encoding is NOT a subset of UTF-8 (despite the ISO-8859-1 I<codeset> being a subset of Unicode), while ASCII is.

Surprisingly, C<decode> will ignore these flags and so treat all input values as governed by the C<utf8> flag. If it is disabled, this allows you to decode ISO-8859-1- and ASCII-encoded strings, as both strict subsets of Unicode. If it is enabled, you can correctly decode UTF-8 encoded strings.

So neither C<latin1> nor C<ascii> are incompatible with the C<utf8> flag - they only govern when the JSON output engine escapes a character or not.

The main use for C<latin1> is to relatively efficiently store binary data as JSON, at the expense of breaking compatibility with most JSON decoders.

The main use for C<ascii> is to force the output to not contain characters with values > 127, which means you can interpret the resulting string as UTF-8, ISO-8859-1, ASCII, KOI8-R or most about any character set and 8-bit-encoding, and still get the same data structure back. This is useful when your channel for JSON transfer is not 8-bit clean or the encoding might be mangled in between (e.g. in mail), and works because ASCII is a proper subset of most 8-bit and multibyte encodings in use in the world.

=back

=head1 BUGS

Please report bugs on a specific behavior of this module to RT or GitHub issues (preferred):

L<<https://github.com/makamaka/JSON-PP/issues>>

L<<https://rt.cpan.org/Public/Dist/Display.html?Queue=JSON-PP>>

As for new features and requests to change common behaviors, please ask the author of JSON::XS (Marc Lehmann, E<lt>schmorp[at]schmorp.deE<gt>) first, by email (important!), to keep compatibility among JSON.pm backends.

Generally speaking, if you need something special for you, you are advised to create a new module, maybe based on L<JSON::Tiny>, which is smaller and written in a much cleaner way than this module.

=head1 SEE ALSO

The `F<json_pp>` command line utility for quick experiments.

`L<JSON::XS>`, `L<Cpanel::JSON::XS>`, and `L<JSON::Tiny>` for faster alternatives.
`L<JSON>` and `L<JSON::MaybeXS>` for easy migration.

`L<JSON::backportPP::Compat5005>` and `L<JSON::backportPP::Compat5006>` for older perl users.

RFC4627 ([L<http://www.ietf.org/rfc/rfc4627.txt>](http://www.ietf.org/rfc/rfc4627.txt))

RFC7159 ([L<http://www.ietf.org/rfc/rfc7159.txt>](http://www.ietf.org/rfc/rfc7159.txt))

RFC8259 ([L<http://www.ietf.org/rfc/rfc8259.txt>](http://www.ietf.org/rfc/rfc8259.txt))

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`*/opt/cola/permits/1146693972_1616600962.38/0/libjson-perl-4-02000-orig-1-tar-gz/JSON-4.02/lib/JSON/backportPP.pm`

No license file was found, but licenses were detected in source scan.

```
use strict;
use warnings;
use Benchmark qw( cmpthese timethese );
```

```
our $VERSION = '1.00';
```

```
my $wanttime = $ARGV[1] || 5;
```

```
use JSON qw( -support_by_pp -no_export ); # for JSON::PP::Boolean inheritance
use JSON::PP ();
use JSON::XS ();
```

```

use utf8;

my $pp = JSON::PP->new->utf8;
my $xs = JSON::XS->new->utf8;

local $/;

my $json = <>;
my $perl = JSON::XS::decode_json $json;
my $result;

printf( "JSON::PP %s\n", JSON::PP->VERSION );
printf( "JSON::XS %s\n", JSON::XS->VERSION );

print "-----\n";
print "->decode()\n";
print "-----\n";

$result = timethese( -$wanttime,
    {
        'JSON::PP' => sub { $pp->decode( $json ) },
        'JSON::XS' => sub { $xs->decode( $json ) },
    },
    'none'
);
cmpthese( $result );

print "-----\n";

__END__

=pod

=head1 SYNOPSIS

bench_decode.pl json-file
# or
bench_decode.pl json-file minimum-time

=head1 DESCRIPTION

L<JSON::PP> and L<JSON::XS> decoding benchmark.

=head1 AUTHOR

```

makamaka

=head1 LISENCE

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Found in path(s):

* /opt/cola/permits/1146693972_1616600962.38/0/libjson-perl-4-02000-orig-1-tar-gz/JSON-4.02/eg/bench_decode.pl

1.19 libtext-diff-perl 1.45-1

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1.20 util-linux 2.34-0.1ubuntu9

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1.24 libmath-random-isaac-perl 1.004-1

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1.25 libyamI 0.2.2 1

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2006-Jan-27

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# the file name (including the path relative to the current directory,
# always starting with `./').
#
# Don't put empty lines into this file!
#
.gitignore
#
builds/unix/pkg.m4
#
docs/FTL.TXT
docs/GPLv2.TXT
#
include/freetype/internal/fthash.h
#
src/base/fthash.c
src/base/md5.c
src/base/md5.h
#
src/bdf/bdf.c
src/bdf/bdf.h
src/bdf/bdfdrivr.c
src/bdf/bdfdrivr.h
src/bdf/bdferror.h
src/bdf/bdflib.c
src/bdf/module.mk
src/bdf/README
src/bdf/rules.mk
#
src/pcf/module.mk
src/pcf/pcf.c
src/pcf/pcf.h
src/pcf/pcfdrivr.c
src/pcf/pcfdrivr.h
src/pcf/pcferror.h
src/pcf/pcfread.c
src/pcf/pcfread.h
src/pcf/pcfutil.c
src/pcf/pcfutil.h
src/pcf/README
src/pcf/rules.mk
#
src/gzip/adler32.c
```

```
src/gzip/infblock.c
src/gzip/infblock.h
src/gzip/infcodes.c
src/gzip/infcodes.h
src/gzip/inffixed.h
src/gzip/inflate.c
src/gzip/inftrees.c
src/gzip/inftrees.h
src/gzip/infutil.c
src/gzip/infutil.h
src/gzip/zconf.h
src/gzip/zlib.h
src/gzip/zutil.c
src/gzip/zutil.h
#
src/tools/apinames.c
src/tools/ftrandom/ftrandom.c
#
# EOF
```

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@subheading END OF TERMS AND CONDITIONS

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```
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@var{one line to give the library's name and an idea of what it does.}
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```

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```
@end smallexample
```

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```
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`Frob' (a library for tweaking knobs) written by James Random Hacker.
```

```
@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
@end smallexample
```

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@c The GNU General Public License.
@center Version 2, June 1991
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@c hence no sectioning command or @node.
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@page

@heading Appendix: How to Apply These Terms to Your New Programs

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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the ``copyright" line and a pointer to where the full notice is found.

@smallexample

@var{one line to give the program's name and a brief idea of what it does.}

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@end smallexample

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

```
@smallexample
Gnomovision version 69, Copyright (C) @var{year} @var{name of author}
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
@end smallexample
```

The hypothetical commands @samp{show w} and @samp{show c} should show
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commands you use may be called something other than @samp{show w} and
@samp{show c}; they could even be mouse-clicks or menu items---whatever
suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a ``copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

```
@example
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

```
@var{signature of Ty Coon}, 1 April 1989
Ty Coon, President of Vice
@end example
```

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1.29 libtest-differences-perl 0.67-1

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1.30 libxslt 1.1.34-4

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1.31 tcptraceroute 1.5beta7+debian-4.1

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@c Local Variables:

@c ispell-local-pdict: "ispell-dict"

@c End:

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Version 2.1, February 1999

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Licensing Information User Manual

MySQL Router 8.0

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* Small patch to handle trailing slashes in --proto_path flag.

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* Small patch to fix Python CallMethod().

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* Heuristic detection of sub-messages when printing unknown fields in text format.

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* Added @Override annotation to generated Java code where appropriate.

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* Tru64 support.

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* Solaris 10 + Sun Studio fixes.

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* Slicing support for repeated scalar fields for the Python API.

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* MS Visual Studio error format option.

* Detect unordered_map in stl_hash.m4.

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* gzip/zlib I/O support.

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Alexander Melnikov <alm@sibmail.ru>

* HPUX support.

Oliver Jowett <oliver.jowett@gmail.com>

* Detect whether zlib is new enough in configure script.

* Fixes for Solaris 10 32/64-bit confusion.

Evan Jones <evanj@mit.edu>

* Optimize Java serialization code when writing a small message to a stream.

* Optimize Java serialization of strings so that UTF-8 encoding happens only

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- * Clean up some Java warnings.
- * Fix bug with permanent callbacks that delete themselves when run.

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- * Fixed detection of sched_yield on Solaris.
- * Added atomicops for Solaris

Andrew Paprocki <andrew@ishiboo.com>

- * Fixed minor IBM xLC compiler build issues
- * Added atomicops for AIX (POWER)

/* Written in 2016 by David Blackman and Sebastiano Vigna (vigna@acm.org)

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MySQL 8.0

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dtoa.c

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Facebook Fast Checksum Patch

Facebook Fast Checksum Patch

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crc32.c -- compute the CRC-32 of a buf stream
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Google Controlling Master Thread I/O Rate Patch

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Google SMP Patch

Google SMP patch

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Kerberos5

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lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
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lib/gssapi/mechglue/g_unseal.c
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lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
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libunwind

libunwind

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memcached

memcached

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# Secondary weight range: 0020..0192 (371)
# Variant secondaries: 0159..015E (6)
# Digit secondaries: 015F..0192 (52)
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effort to the memcached project. If you don't see your name mentioned send email to the memcached mailing list so you can be immortalized.

Also see the ChangeLog for even more people who have helped over the years by submitting fixes, patches and reporting bugs.

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1.38 iputils 20190709-3

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1.40 gawk 5.0.1+dfsg-1

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```
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```
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Version 2, June 1991

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```
<one line to give the library's name and a brief idea of what it does.>  
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1.41 libmaxminddb 1.4.2-0ubuntu1.20.04.1

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1.42 libvmtools 11.3.0.29534

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>>> freebsd-base64-4.8
>>> unicode-5.0

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>>> freebsd-base64-4.8

base64.c -- routines to encode/decode base64 data

\$OpenLDAP: pkg/ldap/libraries/liblutil/base64.c,v 1.15 2006/01/03 22:12:11 kurt Exp \$ /

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1.44 zlib 1.2.3

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```
/* zlib.h -- interface of the 'zlib' general purpose compression library
   version 1.2.11, January 15th, 2017
```

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1.45 perl-openssl-defaults 4

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1.46 python-cryptography 2.8-3ubuntu0.1

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1.47 lua 5.2.4

1.48 libnet 1.1.6+dfsg 3.1build1

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Packaged-By: Domenico Andreoli <cavok@debian.org>

Stefanos Harhalakis <v13@v13.gr>

Packaged-Date: Wed May 13 23:21:59 EEST 2009

Original-Source-Location: <http://libnet-dev.sourceforge.net/>

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include/win32/getopt.h

include/win32/in_system.h

sample/win32/getopt.c

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Files: sample/bgp4*

sample/dns.c

sample/gre.c

sample/ip_link.c

sample/ip_raw.c

sample/sebek.c

sample/tftp.c

src/libnet_build_bgp.c

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src/libnet_link_none.c

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1.49 sed 4.7 1

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1.50 alsa-topology-conf 1.2.2-1

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1.51 curl 7.68.0 1ubuntu2.7

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License Mixing

=====

libcurl can be built to use a fair amount of various third party libraries, libraries that are written and provided by other parties that are distributed using their own licenses. Even libcurl itself contains code that may cause problems to some. This document attempts to describe what licenses libcurl and

the other libraries use and what possible dilemmas linking and mixing them all can lead to for end users.

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One common dilemma is that [GPL](<https://www.gnu.org/licenses/gpl.html>) licensed code is not allowed to be linked with code licensed under the [Original BSD license](<https://spdx.org/licenses/BSD-4-Clause.html>) (with the announcement clause). You may still build your own copies that use them all, but distributing them as binaries would be to violate the GPL license - unless you accompany your license with an [exception](<https://www.gnu.org/licenses/gpl-faq.html#GPLIncompatibleLibs>). This particular problem was addressed when the [Modified BSD license](<https://opensource.org/licenses/BSD-3-Clause>) was created, which does not have the announcement clause that collides with GPL.

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Uses an [MIT style license](<https://curl.haxx.se/docs/copyright.html>) that is very liberal.

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c-ares

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OpenLDAP

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libssh2

(Used for scp and sftp support) libssh2 uses a Modified BSD-style license.

1.52 tcp-wrappers 7.6.q-30

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1.53 libestr 0.1.10 2.1

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Version 2.1, February 1999

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Gnomovision version 69, Copyright (C) year name of author  
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
This is free software, and you are welcome to redistribute it  
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program  
'Gnomovision' (which makes passes at compilers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989  
Ty Coon, President of Vice
```

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1.56 packaging 16.8

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1.57 ncurses 6.2-0ubuntu2

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1.58 parted 3.3-4

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1.59 libsigsegv 2.12-2

1.59.1 Available under license :

```
/* List of signals. BSD version.  
Copyright (C) 2002 Bruno Haible <bruno@clisp.org>
```

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```
/* List of signals that are sent when an invalid virtual memory address
   is accessed, or when the stack overflows. */
```

```
#define SIGSEGV_FOR_ALL_SIGNALS(var,body) \
{ int var; var = SIGSEGV; { body } var = SIGBUS; { body } }
```

```
/* Fault handler information. BSD Unix version.
```

```
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```

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```
#define SIGSEGV_FAULT_HANDLER_ARGLIST int sig, int code, void *scp, void *addr
```

```
#define SIGSEGV_FAULT_ADDRESS addr
      GNU GENERAL PUBLIC LICENSE
      Version 2, June 1991
```

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```
Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
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```

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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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1.60 open-ldap 2.4.49+dfsg-2ubuntu1.3

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1.61 Isb 11.1.0ubuntu2

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Format: <https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/>
Upstream-Name: LSB implementation package

Files: *

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Files: init-functions

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1.62 zstd 1.4.4+dfsg-3ubuntu0.1

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*/

/* checkTag : validation tool for libzstd
* command :
* $ ./checkTag tag
* checkTag validates tags of following format : v[0-9].[0-9].[0-9]{any}
* The tag is then compared to zstd version number.
* They are compatible if first 3 digits are identical.
* Anything beyond that is free, and doesn't impact validation.
* Example : tag v1.8.1.2 is compatible with version 1.8.1
* When tag and version are not compatible, program exits with error code 1.
* When they are compatible, it exists with a code 0.
* checkTag is intended to be used in automated testing environment.
*/
```

1.63 glibc 2.31-0ubuntu9

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1.64 grub-gfxpayload-lists 0.7

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1.65 libalgorithm-diff-perl 1.19.03-2

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```
#!/usr/bin/perl -w
#
# `Diff' program in Perl
# Copyright 1998 M-J. Dominus. (mjd-perl-diff@plover.com)
#
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# under the same terms as Perl itself.
#
# Altered to output in `context diff' format (but without context)
# September 1998 Christian Murphy (cpm@muc.de)
#
# Command-line arguments and context lines feature added
# September 1998 Amir D. Karger (karger@bead.aecom.yu.edu)
#
# In this file, "item" usually means "line of text", and "item number" usually
# means "line number". But theoretically the code could be used more generally
use strict;

use Algorithm::Diff qw(diff);
use File::stat;
use vars qw($opt_C $opt_c $opt_u $opt_U);
use Getopt::Std;

my $usage = << "ENDUSAGE";
Usage: $0 [{-c | -u}] [{-C | -U} lines] oldfile newfile
  -c will do a context diff with 3 lines of context
  -C will do a context diff with 'lines' lines of context
  -u will do a unified diff with 3 lines of context
  -U will do a unified diff with 'lines' lines of context
ENDUSAGE

getopts("U:C:cu") or bag("$usage");
bag("$usage") unless @ARGV == 2;
my ($file1, $file2) = @ARGV;
if (defined $opt_C || defined $opt_c) {
    $opt_c = ""; # -c on if -C given on command line
    $opt_u = undef;
} elsif (defined $opt_U || defined $opt_u) {
    $opt_u = ""; # -u on if -U given on command line
    $opt_c = undef;
} else {
    $opt_c = ""; # by default, do context diff, not old diff
}

my ($char1, $char2); # string to print before file names
```

```

my $Context_Lines; # lines of context to print
if (defined $opt_c) {
    $Context_Lines = defined $opt_C ? $opt_C : 3;
    $char1 = '*' x 3; $char2 = '-' x 3;
} elsif (defined $opt_u) {
    $Context_Lines = defined $opt_U ? $opt_U : 3;
    $char1 = '-' x 3; $char2 = '+' x 3;
}

# After we've read up to a certain point in each file, the number of items
# we've read from each file will differ by $FLD (could be 0)
my $File_Length_Difference = 0;

open (F1, $file1) or bag("Couldn't open $file1: $!");
open (F2, $file2) or bag("Couldn't open $file2: $!");
my (@f1, @f2);
chomp(@f1 = <F1>);
close F1;
chomp(@f2 = <F2>);
close F2;

# diff yields lots of pieces, each of which is basically a Block object
my $diffs = diff(\@f1, \@f2);
exit 0 unless @$diffs;

my $st = stat($file1);
print "$char1 $file1\t", scalar localtime($st->mtime), "\n";
$st = stat($file2);
print "$char2 $file2\t", scalar localtime($st->mtime), "\n";

my ($hunk,$oldhunk);
# Loop over hunks. If a hunk overlaps with the last hunk, join them.
# Otherwise, print out the old one.
foreach my $piece (@$diffs) {
    $hunk = new Hunk ($piece, $Context_Lines);
    next unless $oldhunk;

    if ($hunk->does_overlap($oldhunk)) {
        $hunk->prepend_hunk($oldhunk);
    } else {
        $oldhunk->output_diff(\@f1, \@f2);
    }

} continue {
    $oldhunk = $hunk;
}

# print the last hunk

```

```

Soldhunk->output_diff(\@f1, \@f2);
exit 1;
# END MAIN PROGRAM

sub bag {
    my $msg = shift;
    $msg .= "\n";
    warn $msg;
    exit 2;
}

# Package Hunk. A Hunk is a group of Blocks which overlap because of the
# context surrounding each block. (So if we're not using context, every
# hunk will contain one block.)
{
package Hunk;

sub new {
    # Arg1 is output from &LCS::diff (which corresponds to one Block)
    # Arg2 is the number of items (lines, e.g.,) of context around each block
    #
    # This subroutine changes $File_Length_Difference
    #
    # Fields in a Hunk:
    # blocks    - a list of Block objects
    # start     - index in file 1 where first block of the hunk starts
    # end       - index in file 1 where last block of the hunk ends
    #
    # Variables:
    # before_diff - how much longer file 2 is than file 1 due to all hunks
    #              until but NOT including this one
    # after_diff  - difference due to all hunks including this one
    my ($class, $piece, $context_items) = @_ ;

    my $block = new Block ($piece); # this modifies $FLD!

    my $before_diff = $File_Length_Difference; # BEFORE this hunk
    my $after_diff = $before_diff + $block->{"length_diff"};
    $File_Length_Difference += $block->{"length_diff"};

    # @remove_array and @insert_array hold the items to insert and remove
    # Save the start & beginning of each array. If the array doesn't exist
    # though (e.g., we're only adding items in this block), then figure
    # out the line number based on the line number of the other file and
    # the current difference in file lengths
    my @remove_array = $block->remove;
    my @insert_array = $block->insert;
    my ($a1, $a2, $b1, $b2, $start1, $start2, $end1, $end2);

```

```

$a1 = @remove_array ? $remove_array[0 ]->{"item_no"} : -1;
$a2 = @remove_array ? $remove_array[-1]->{"item_no"} : -1;
$b1 = @insert_array ? $insert_array[0 ]->{"item_no"} : -1;
$b2 = @insert_array ? $insert_array[-1]->{"item_no"} : -1;

$start1 = $a1 == -1 ? $b1 - $before_diff : $a1;
$end1  = $a2 == -1 ? $b2 - $after_diff : $a2;
$start2 = $b1 == -1 ? $a1 + $before_diff : $b1;
$end2  = $b2 == -1 ? $a2 + $after_diff : $b2;

# At first, a hunk will have just one Block in it
my $hunk = {
    "start1" => $start1,
    "start2" => $start2,
    "end1"   => $end1,
    "end2"   => $end2,
    "blocks" => [$block],
};
bless $hunk, $class;

$hunk->flag_context($context_items);

return $hunk;
}

# Change the "start" and "end" fields to note that context should be added
# to this hunk
sub flag_context {
    my ($hunk, $context_items) = @_;
    return unless $context_items; # no context

    # add context before
    my $start1 = $hunk->{"start1"};
    my $num_added = $context_items > $start1 ? $start1 : $context_items;
    $hunk->{"start1"} -= $num_added;
    $hunk->{"start2"} -= $num_added;

    # context after
    my $end1 = $hunk->{"end1"};
    $num_added = ($end1+$context_items > $#f1) ?
        $#f1 - $end1 :
        $context_items;
    $hunk->{"end1"} += $num_added;
    $hunk->{"end2"} += $num_added;
}

# Is there an overlap between hunk arg0 and old hunk arg1?
# Note: if end of old hunk is one less than beginning of second, they overlap

```

```

sub does_overlap {
    my ($hunk, $oldhunk) = @_;
    return "" unless $oldhunk; # first time through, $oldhunk is empty

    # Do I actually need to test both?
    return ($hunk->{"start1"} - $oldhunk->{"end1"} <= 1 ||
        $hunk->{"start2"} - $oldhunk->{"end2"} <= 1);
}

# Prepend hunk arg1 to hunk arg0
# Note that arg1 isn't updated! Only arg0 is.
sub prepend_hunk {
    my ($hunk, $oldhunk) = @_;

    $hunk->{"start1"} = $oldhunk->{"start1"};
    $hunk->{"start2"} = $oldhunk->{"start2"};

    unshift (@{$hunk->{"blocks"}}, @{$oldhunk->{"blocks"}});
}

# DIFF OUTPUT ROUTINES. THESE ROUTINES CONTAIN DIFF FORMATTING INFO...
sub output_diff {
    if (defined $main::opt_u) {&output_unified_diff(@_)}
    elsif (defined $main::opt_c) {&output_context_diff(@_)}
    else {die "unknown diff"}
}

sub output_unified_diff {
    my ($hunk, $fileref1, $fileref2) = @_;
    my @blocklist;

    # Calculate item number range.
    my $range1 = $hunk->unified_range(1);
    my $range2 = $hunk->unified_range(2);
    print "@@ -$range1 +$range2 @@\n";

    # Outlist starts containing the hunk of file 1.
    # Removing an item just means putting a '-' in front of it.
    # Inserting an item requires getting it from file2 and splicing it in.
    # We splice in $num_added items. Remove blocks use $num_added because
    # splicing changed the length of outlist.
    # We remove $num_removed items. Insert blocks use $num_removed because
    # their item numbers---corresponding to positions in file *2*--- don't take
    # removed items into account.
    my $low = $hunk->{"start1"};
    my $hi = $hunk->{"end1"};
    my ($num_added, $num_removed) = (0,0);

```

```

my @outlist = @$fileref1[$low..$hi];
map {s/^/ /} @outlist; # assume it's just context

foreach my $block (@{$shunk->{"blocks"}}) {
foreach my $item ($block->remove) {
    my $op = $item->{"sign"}; # -
    my $offset = $item->{"item_no"} - $low + $num_added;
    $outlist[$offset] =~ s/^/$op/;
    $num_removed++;
}
foreach my $item ($block->insert) {
    my $op = $item->{"sign"}; # +
    my $i = $item->{"item_no"};
    my $offset = $i - $shunk->{"start2"} + $num_removed;
    splice(@outlist,$offset,0,"$op$$fileref2[$i]");
    $num_added++;
}
}

map {s/$\n/} @outlist; # add \n's
print @outlist;

}

sub output_context_diff {
    my ($shunk, $fileref1, $fileref2) = @_;
    my @blocklist;

    print "*****\n";
    # Calculate item number range.
    my $range1 = $shunk->context_range(1);
    my $range2 = $shunk->context_range(2);

    # Print out file 1 part for each block in context diff format if there are
    # any blocks that remove items
    print "*** $range1 ****\n";
    my $low = $shunk->{"start1"};
    my $hi = $shunk->{"end1"};
    if (@blocklist = grep {$_->remove} @{$shunk->{"blocks"}}) {
    my @outlist = @$fileref1[$low..$hi];
    map {s/^/ /} @outlist; # assume it's just context
    foreach my $block (@blocklist) {
        my $op = $block->op; # - or !
        foreach my $item ($block->remove) {
            $outlist[$item->{"item_no"} - $low] =~ s/^/$op/;
        }
    }
    map {s/$\n/} @outlist; # add \n's

```

```

print @outlist;
}

print "--- $range2 ----\n";
$low = $hunk->{"start2"};
$hi = $hunk->{"end2"};
if (@blocklist = grep {$_->insert} @{$hunk->{"blocks"}}) {
my @outlist = @fileref2[$low..$hi];
map {s/^/ /} @outlist; # assume it's just context
foreach my $block (@blocklist) {
    my $op = $block->op; # + or !
    foreach my $item ($block->insert) {
        $outlist[$item->{"item_no"} - $low] =~ s/^/$op/;
    }
}
map {s/$^\n/} @outlist; # add \n's
print @outlist;
}

}

sub context_range {
# Generate a range of item numbers to print. Only print 1 number if the range
# has only one item in it. Otherwise, it's 'start,end'
my ($hunk, $flag) = @_;
my ($start, $end) = ($hunk->{"start$flag"}, $hunk->{"end$flag"});
$start++; $end++; # index from 1, not zero
my $range = ($start < $end) ? "$start,$end" : $end;
return $range;
}

sub unified_range {
# Generate a range of item numbers to print for unified diff
# Print number where block starts, followed by number of lines in the block
# (don't print number of lines if it's 1)
my ($hunk, $flag) = @_;
my ($start, $end) = ($hunk->{"start$flag"}, $hunk->{"end$flag"});
$start++; $end++; # index from 1, not zero
my $length = $end - $start + 1;
my $first = $length < 2 ? $end : $start; # strange, but correct...
my $range = $length == 1 ? $first : "$first,$length";
return $range;
}
} # end Package Hunk

# Package Block. A block is an operation removing, adding, or changing
# a group of items. Basically, this is just a list of changes, where each
# change adds or deletes a single item.
# (Change could be a separate class, but it didn't seem worth it)

```



```

{
package Block;
sub new {
# Input is a chunk from &Algorithm::LCS::diff
# Fields in a block:
# length_diff - how much longer file 2 is than file 1 due to this block
# Each change has:
# sign      - '+' for insert, '-' for remove
# item_no   - number of the item in the file (e.g., line number)
# We don't bother storing the text of the item
#
    my ($class,$chunk) = @_ ;
    my @changes = ();

# This just turns each change into a hash.
    foreach my $item (@$chunk) {
my ($sign, $item_no, $text) = @$item;
my $hashref = {"sign" => $sign, "item_no" => $item_no};
push @changes, $hashref;
    }

    my $block = { "changes" => \@changes };
    bless $block, $class;

    $block->{"length_diff"} = $block->insert - $block->remove;
    return $block;
}

# LOW LEVEL FUNCTIONS
sub op {
# what kind of block is this?
    my $block = shift;
    my $insert = $block->insert;
    my $remove = $block->remove;

    $remove && $insert and return '!';
    $remove and return '-';
    $insert and return '+';
    warn "unknown block type";
    return '^'; # context block
}

# Returns a list of the changes in this block that remove items
# (or the number of removals if called in scalar context)
sub remove { return grep { $_->{"sign"} eq '-' } @{shift->{"changes"}}; }

# Returns a list of the changes in this block that insert items

```

```

sub insert { return grep {$_->{"sign"} eq '+'} @{shift->{"changes"}}; }

} # end of package Block

Found in path(s):
* /opt/cola/permits/1136574725_1613801364.93/0/libalgorithm-diff-perl-1-19-03-orig-1-tar-gz/Algorithm-Diff-1.1903/cdiff.pl
No license file was found, but licenses were detected in source scan.

# This program is free software; you can redistribute it and/or modify it
# under the same terms as Perl itself.

Found in path(s):
* /opt/cola/permits/1136574725_1613801364.93/0/libalgorithm-diff-perl-1-19-03-orig-1-tar-gz/Algorithm-Diff-1.1903/diffnew.pl
No license file was found, but licenses were detected in source scan.

#!/usr/bin/perl
#
# `Diff` program in Perl
# Copyright 1998 M-J. Dominus. (mjd-perl-diff@plover.com)
#
# This program is free software; you can redistribute it and/or modify it
# under the same terms as Perl itself.
#

use Algorithm::Diff qw(diff);

bag("Usage: $0 oldfile newfile") unless @ARGV == 2;

my ($file1, $file2) = @ARGV;

# -f $file1 or bag("$file1: not a regular file");
# -f $file2 or bag("$file2: not a regular file");

-T $file1 or bag("$file1: binary");
-T $file2 or bag("$file2: binary");

open (F1, $file1) or bag("Couldn't open $file1: $!");
open (F2, $file2) or bag("Couldn't open $file2: $!");
chomp(@f1 = <F1>);
close F1;
chomp(@f2 = <F2>);
close F2;

$diffs = diff(\@f1, \@f2);
exit 0 unless @$diffs;

```

```

foreach $chunk (@$diffs) {

    foreach $line (@$chunk) {
        my ($sign, $lineno, $text) = @$line;
        printf "%4d$sign %s\n", $lineno+1, $text;
    }
    print "-----\n";
}
exit 1;

sub bag {
    my $msg = shift;
    $msg .= "\n";
    warn $msg;
    exit 2;
}

```

Found in path(s):

```
* /opt/cola/permits/1136574725_1613801364.93/0/libalgorithm-diff-perl-1-19-03-orig-1-tar-gz/Algorithm-Diff-1.1903/diff.pl
```

No license file was found, but licenses were detected in source scan.

abstract: unknown

author:

- unknown

build_requires:

ExtUtils::MakeMaker: '0'

configure_requires:

ExtUtils::MakeMaker: '0'

dynamic_config: 1

generated_by: 'ExtUtils::MakeMaker version 6.98, CPAN::Meta::Converter version 2.141170'

license: unknown

meta-spec:

url: <http://module-build.sourceforge.net/META-spec-v1.4.html>

version: '1.4'

name: Algorithm-Diff

no_index:

directory:

- t

- inc

requires: {}

version: '1.1903'

Found in path(s):

```
* /opt/cola/permits/1136574725_1613801364.93/0/libalgorithm-diff-perl-1-19-03-orig-1-tar-gz/Algorithm-Diff-1.1903/META.yml
```

No license file was found, but licenses were detected in source scan.

=head1 NAME

Algorithm::Diff - Compute 'intelligent' differences between two files / lists

=head1 SYNOPSIS

```
require Algorithm::Diff;

# This example produces traditional 'diff' output:

my $diff = Algorithm::Diff->new( \@seq1, \@seq2 );

$diff->Base( 1 ); # Return line numbers, not indices
while( $diff->Next() ) {
    next if $diff->Same();
    my $sep = "";
    if( ! $diff->Items(2) ) {
        printf "%d,%dd%d\n",
            $diff->Get(qw( Min1 Max1 Max2 ));
    } elsif( ! $diff->Items(1) ) {
        printf "%da%d,%d\n",
            $diff->Get(qw( Max1 Min2 Max2 ));
    } else {
        $sep = "---\n";
        printf "%d,%dc%d,%d\n",
            $diff->Get(qw( Min1 Max1 Min2 Max2 ));
    }
    print "< $_" for $diff->Items(1);
    print $sep;
    print "> $_" for $diff->Items(2);
}

# Alternate interfaces:

use Algorithm::Diff qw(
    LCS LCS_length LCSIdx
    diff sdiff compact_diff
    traverse_sequences traverse_balanced );

@lcs = LCS( \@seq1, \@seq2 );
$lcsref = LCS( \@seq1, \@seq2 );
$count = LCS_length( \@seq1, \@seq2 );

( $seq1idxref, $seq2idxref ) = LCSIdx( \@seq1, \@seq2 );
```

Complicated interfaces:

```
@diffs = diff( \@seq1, \@seq2 );

@sdiffs = sdiff( \@seq1, \@seq2 );

@cdiffs = compact_diff( \@seq1, \@seq2 );

traverse_sequences(
  \@seq1,
  \@seq2,
  { MATCH => \&callback1,
    DISCARD_A => \&callback2,
    DISCARD_B => \&callback3,
  },
  \&key_generator,
  @extra_args,
);

traverse_balanced(
  \@seq1,
  \@seq2,
  { MATCH => \&callback1,
    DISCARD_A => \&callback2,
    DISCARD_B => \&callback3,
    CHANGE => \&callback4,
  },
  \&key_generator,
  @extra_args,
);
```

=head1 INTRODUCTION

(by Mark-Jason Dominus)

I once read an article written by the authors of C<diff>; they said that they worked very hard on the algorithm until they found the right one.

I think what they ended up using (and I hope someone will correct me, because I am not very confident about this) was the 'longest common subsequence' method. In the LCS problem, you have two sequences of items:

a b c d f g h j q z

a b c d e f g i j k r x y z

and you want to find the longest sequence of items that is present in both original sequences in the same order. That is, you want to find a new sequence I<S> which can be obtained from the first sequence by deleting some items, and from the second sequence by deleting other items. You also want I<S> to be as long as possible. In this case I<S> is

a b c d f g j z

From there it's only a small step to get diff-like output:

```
e h i k q r x y
+ - + + - + + +
```

This module solves the LCS problem. It also includes a canned function to generate C<diff>-like output.

It might seem from the example above that the LCS of two sequences is always pretty obvious, but that's not always the case, especially when the two sequences have many repeated elements. For example, consider

```
a x b y c z p d q
a b c a x b y c z
```

A naive approach might start by matching up the C<a> and C that appear at the beginning of each sequence, like this:

```
a x b y c      z p d q
a b c a b y c z
```

This finds the common subsequence C<a b c z>. But actually, the LCS is C<a x b y c z>:

```
a x b y c z p d q
a b c a x b y c z
```

or

```
a      x b y c z p d q
a b c a x b y c z
```

=head1 USAGE

(See also the README file and several example scripts include with this module.)

This module now provides an object-oriented interface that uses less memory and is easier to use than most of the previous procedural interfaces. It also still provides several exportable functions. We'll deal with these in ascending order of difficulty: C<LCS>, C<LCS_length>, C<LCSidx>, OO interface, C<prepare>, C<diff>, C<sdiff>, C<traverse_sequences>, and C<traverse_balanced>.

=head2 C<LCS>

Given references to two lists of items, LCS returns an array containing their longest common subsequence. In scalar context, it returns a reference to such a list.

```
@lcs = LCS( \@seq1, \@seq2 );
$lcsref = LCS( \@seq1, \@seq2 );
```

C<LCS> may be passed an optional third parameter; this is a CODE reference to a key generation function. See L</KEY GENERATION FUNCTIONS>.

```
@lcs = LCS( \@seq1, \@seq2, \&keyGen, @args );
$lcsref = LCS( \@seq1, \@seq2, \&keyGen, @args );
```

Additional parameters, if any, will be passed to the key generation routine.

=head2 C<LCS_length>

This is just like C<LCS> except it only returns the length of the longest common subsequence. This provides a performance gain of about 9% compared to C<LCS>.

=head2 C<LCSidx>

Like C<LCS> except it returns references to two arrays. The first array contains the indices into @seq1 where the LCS items are located. The second array contains the indices into @seq2 where the LCS items are located.

Therefore, the following three lists will contain the same values:

```
my( $idx1, $idx2 ) = LCSidx( \@seq1, \@seq2 );
my @list1 = @seq1[ @idx1 ];
my @list2 = @seq2[ @idx2 ];
my @list3 = LCS( \@seq1, \@seq2 );
```

=head2 C<new>

```
$diff = Algorithm::Diffs->new( \@seq1, \@seq2 );
```

```
$diff = Algorithm::Diffs->new( \@seq1, \@seq2, \%opts );
```

C<new> computes the smallest set of additions and deletions necessary to turn the first sequence into the second and compactly records them in the object.

You use the object to iterate over I<hunks>, where each hunk represents a contiguous section of items which should be added, deleted, replaced, or left unchanged.

=over 4

The following summary of all of the methods looks a lot like Perl code but some of the symbols have different meanings:

- [] Encloses optional arguments
- : Is followed by the default value for an optional argument
- | Separates alternate return results

Method summary:

```
$obj = Algorithm::Diff->new( \@seq1, \@seq2, [ \%opts ] );  
$pos = $obj->Next( [ $count : 1 ] );  
$revPos = $obj->Prev( [ $count : 1 ] );  
$obj = $obj->Reset( [ $pos : 0 ] );  
$copy = $obj->Copy( [ $pos, [ $newBase ] ] );  
$oldBase = $obj->Base( [ $newBase ] );
```

Note that all of the following methods C<die> if used on an object that is "reset" (not currently pointing at any hunk).

```
$bits = $obj->Diff( );  
@items|$cnt = $obj->Same( );  
@items|$cnt = $obj->Items( $seqNum );  
@idxs|$cnt = $obj->Range( $seqNum, [ $base ] );  
$minIdx = $obj->Min( $seqNum, [ $base ] );  
$maxIdx = $obj->Max( $seqNum, [ $base ] );  
@values = $obj->Get( @names );
```

Passing in C<undef> for an optional argument is always treated the same as if no argument were passed in.

=item C<Next>

```
$pos = $diff->Next(); # Move forward 1 hunk  
$pos = $diff->Next( 2 ); # Move forward 2 hunks  
$pos = $diff->Next(-5); # Move backward 5 hunks
```


C<Next> moves the object to point at the next hunk. The object starts out "reset", which means it isn't pointing at any hunk. If the object is reset, then C<Next()> moves to the first hunk.

C<Next> returns a true value iff the move didn't go past the last hunk. So C<Next(0)> will return true iff the object is not reset.

Actually, C<Next> returns the object's new position, which is a number between 1 and the number of hunks (inclusive), or returns a false value.

=item C<Prev>

C<Prev(\$N)> is almost identical to C<Next(-\$N)>; it moves to the \$Nth previous hunk. On a 'reset' object, C<Prev()> [and C<Next(-1)>] move to the last hunk.

The position returned by C<Prev> is relative to the I<end> of the hunks; -1 for the last hunk, -2 for the second-to-last, etc.

=item C<Reset>

```
$diff->Reset(); # Reset the object's position
$diff->Reset($pos); # Move to the specified hunk
$diff->Reset(1); # Move to the first hunk
$diff->Reset(-1); # Move to the last hunk
```

C<Reset> returns the object, so, for example, you could use C<< \$diff->Reset()->Next(-1) >> to get the number of hunks.

=item C<Copy>

```
$copy = $diff->Copy( $newPos, $newBase );
```

C<Copy> returns a copy of the object. The copy and the original object share most of their data, so making copies takes very little memory.

The copy maintains its own position (separate from the original), which is the main purpose of copies. It also maintains its own base.

By default, the copy's position starts out the same as the original object's position. But C<Copy> takes an optional first argument to set the new position, so the following three snippets are equivalent:

```
$copy = $diff->Copy($pos);
```

```
$copy = $diff->Copy();
$copy->Reset($pos);
```

```
$copy = $diff->Copy()->Reset($pos);
```

C<Copy> takes an optional second argument to set the base for the copy. If you wish to change the base of the copy but leave the position the same as in the original, here are two equivalent ways:

```
$copy = $diff->Copy();  
$copy->Base( 0 );
```

```
$copy = $diff->Copy(undef,0);
```

Here are two equivalent way to get a "reset" copy:

```
$copy = $diff->Copy(0);
```

```
$copy = $diff->Copy()->Reset();
```

=item C<Diff>

```
$bits = $obj->Diff();
```

C<Diff> returns a true value iff the current hunk contains items that are different between the two sequences. It actually returns one of the follow 4 values:

=over 4

=item 3

C<3==(1|2)>. This hunk contains items from @seq1 and the items from @seq2 that should replace them. Both sequence 1 and 2 contain changed items so both the 1 and 2 bits are set.

=item 2

This hunk only contains items from @seq2 that should be inserted (not items from @seq1). Only sequence 2 contains changed items so only the 2 bit is set.

=item 1

This hunk only contains items from @seq1 that should be deleted (not items from @seq2). Only sequence 1 contains changed items so only the 1 bit is set.

=item 0

This means that the items in this hunk are the same in both sequences.

Neither sequence 1 nor 2 contain changed items so neither the 1 nor the 2 bits are set.

=back

=item C<Same>

C<Same> returns a true value iff the current hunk contains items that are the same in both sequences. It actually returns the list of items if they are the same or an empty list if they aren't. In a scalar context, it returns the size of the list.

=item C<Items>

```
$count = $diff->Items(2);  
@items = $diff->Items($seqNum);
```

C<Items> returns the (number of) items from the specified sequence that are part of the current hunk.

If the current hunk contains only insertions, then

C<< \$diff->Items(1) >> will return an empty list (0 in a scalar context).

If the current hunk contains only deletions, then C<< \$diff->Items(2) >> will return an empty list (0 in a scalar context).

If the hunk contains replacements, then both C<< \$diff->Items(1) >> and C<< \$diff->Items(2) >> will return different, non-empty lists.

Otherwise, the hunk contains identical items and all of the following will return the same lists:

```
@items = $diff->Items(1);  
@items = $diff->Items(2);  
@items = $diff->Same();
```

=item C<Range>

```
$count = $diff->Range( $seqNum );  
@indices = $diff->Range( $seqNum );  
@indices = $diff->Range( $seqNum, $base );
```

C<Range> is like C<Items> except that it returns a list of I<indices> to the items rather than the items themselves. By default, the index of the first item (in each sequence) is 0 but this can be changed by calling the C<Base> method. So, by default, the following two snippets return the same lists:

```
@list = $diff->Items(2);
```

```
@list = @seq2[ $diff->Range(2) ];
```

You can also specify the base to use as the second argument. So the following two snippets I<always> return the same lists:

```
@list = $diff->Items(1);  
@list = @seq1[ $diff->Range(1,0) ];
```

=item C<Base>

```
$curBase = $diff->Base();  
$oldBase = $diff->Base($newBase);
```

C<Base> sets and/or returns the current base (usually 0 or 1) that is used when you request range information. The base defaults to 0 so that range information is returned as array indices. You can set the base to 1 if you want to report traditional line numbers instead.

=item C<Min>

```
$min1 = $diff->Min(1);  
$min = $diff->Min( $seqNum, $base );
```

C<Min> returns the first value that C<Range> would return (given the same arguments) or returns C<undef> if C<Range> would return an empty list.

=item C<Max>

C<Max> returns the last value that C<Range> would return or C<undef>.

=item C<Get>

```
( $n, $x, $r ) = $diff->Get(qw( min1 max1 range1 ));  
@values = $diff->Get(qw( 0min2 1max2 range2 same base ));
```

C<Get> returns one or more scalar values. You pass in a list of the names of the values you want returned. Each name must match one of the following regexes:

```
/(?-?\d+)?(min|max)[12]$/i  
/(?range[12]|same|diff|base)$/i
```

The 1 or 2 after a name says which sequence you want the information for (and where allowed, it is required). The optional number before "min" or "max" is the base to use. So the following equalities hold:

```
$diff->Get('min1') == $diff->Min(1)
```

```
$diff->Get('0min2') == $diff->Min(2,0)
```

Using `C<Get>` in a scalar context when you've passed in more than one name is a fatal error (`C<die>` is called).

=back

=head2 `C<prepare>`

Given a reference to a list of items, `C<prepare>` returns a reference to a hash which can be used when comparing this sequence to other sequences with `C<LCS>` or `C<LCS_length>`.

```
$prep = prepare( \@seq1 );
for $i ( 0 .. 10_000 )
{
    @lcs = LCS( $prep, $seq[$i] );
    # do something useful with @lcs
}
```

`C<prepare>` may be passed an optional third parameter; this is a CODE reference to a key generation function. See [L</KEY GENERATION FUNCTIONS>](#).

```
$prep = prepare( \@seq1, \&keyGen );
for $i ( 0 .. 10_000 )
{
    @lcs = LCS( $seq[$i], $prep, \&keyGen );
    # do something useful with @lcs
}
```

Using `C<prepare>` provides a performance gain of about 50% when calling `LCS` many times compared with not preparing.

=head2 `C<diff>`

```
@diffs = diff( \@seq1, \@seq2 );
$diffs_ref = diff( \@seq1, \@seq2 );
```

`C<diff>` computes the smallest set of additions and deletions necessary to turn the first sequence into the second, and returns a description of these changes. The description is a list of `I<hunks>`; each hunk represents a contiguous section of items which should be added, deleted, or replaced. (Hunks containing unchanged items are not included.)

The return value of `C<diff>` is a list of hunks, or, in scalar context, a reference to such a list. If there are no differences, the list will be

empty.

Here is an example. Calling `C<diff>` for the following two sequences:

```
a b c e h j l m n p
b c d e f j k l m r s t
```

would produce the following list:

```
(
  [ [ '-', 0, 'a' ] ],

  [ [ '+', 2, 'd' ] ],

  [ [ '-', 4, 'h' ],
    [ '+', 4, 'f' ] ],

  [ [ '+', 6, 'k' ] ],

  [ [ '-', 8, 'n' ],
    [ '-', 9, 'p' ],
    [ '+', 9, 'r' ],
    [ '+', 10, 's' ],
    [ '+', 11, 't' ] ],
)
```

There are five hunks here. The first hunk says that the `C<a>` at position 0 of the first sequence should be deleted (`C<->`). The second hunk says that the `C<d>` at position 2 of the second sequence should be inserted (`C<+>`). The third hunk says that the `C<h>` at position 4 of the first sequence should be removed and replaced with the `C<f>` from position 4 of the second sequence. And so on.

`C<diff>` may be passed an optional third parameter; this is a CODE reference to a key generation function. See [L</KEY GENERATION FUNCTIONS>](#).

Additional parameters, if any, will be passed to the key generation routine.

```
=head2 C<sdiff>
```

```
@sdiffs = sdiff( \@seq1, \@seq2 );
$sdiffs_ref = sdiff( \@seq1, \@seq2 );
```

`C<sdiff>` computes all necessary components to show two sequences and their minimized differences side by side, just like the Unix-utility `I<sdiff>` does:

```

same      same
before   |   after
old     <   -
-       >   new

```

It returns a list of array refs, each pointing to an array of display instructions. In scalar context it returns a reference to such a list. If there are no differences, the list will have one entry per item, each indicating that the item was unchanged.

Display instructions consist of three elements: A modifier indicator (C<+>: Element added, C<->: Element removed, C<u>: Element unmodified, C<c>: Element changed) and the value of the old and new elements, to be displayed side-by-side.

An C<sdiff> of the following two sequences:

```

a b c e h j l m n p
b c d e f j k l m r s t

```

results in

```

( [ '-', 'a', " ],
  [ 'u', 'b', 'b' ],
  [ 'u', 'c', 'c' ],
  [ '+', " ", 'd' ],
  [ 'u', 'e', 'e' ],
  [ 'c', 'h', 'f' ],
  [ 'u', 'j', 'j' ],
  [ '+', " ", 'k' ],
  [ 'u', 'l', 'l' ],
  [ 'u', 'm', 'm' ],
  [ 'c', 'n', 'r' ],
  [ 'c', 'p', 's' ],
  [ '+', " ", 't' ],
)

```

C<sdiff> may be passed an optional third parameter; this is a CODE reference to a key generation function. See L</KEY GENERATION FUNCTIONS>.

Additional parameters, if any, will be passed to the key generation routine.

=head2 C<compact_diff>

C<compact_diff> is much like C<sdiff> except it returns a much more

compact description consisting of just one flat list of indices. An example helps explain the format:

```
my @a = qw( a b c e h j l m n p );
my @b = qw( b c d e f j k l m r s t );
@cdiff = compact_diff( \@a, \@b );
# Returns:
# @a @b @a @b
# start start values values
( 0, 0, # =
  0, 0, # a !
  1, 0, # b c = b c
  3, 2, # ! d
  3, 3, # e = e
  4, 4, # f ! h
  5, 5, # j = j
  6, 6, # ! k
  6, 7, # l m = l m
  8, 9, # n p ! r s t
  10, 12, #
);
```

The 0th, 2nd, 4th, etc. entries are all indices into @seq1 (@a in the above example) indicating where a hunk begins. The 1st, 3rd, 5th, etc. entries are all indices into @seq2 (@b in the above example) indicating where the same hunk begins.

So each pair of indices (except the last pair) describes where a hunk begins (in each sequence). Since each hunk must end at the item just before the item that starts the next hunk, the next pair of indices can be used to determine where the hunk ends.

So, the first 4 entries (0..3) describe the first hunk. Entries 0 and 1 describe where the first hunk begins (and so are always both 0). Entries 2 and 3 describe where the next hunk begins, so subtracting 1 from each tells us where the first hunk ends. That is, the first hunk contains items C<\${diff[0]}> through C<\${diff[2]} - 1> of the first sequence and contains items C<\${diff[1]}> through C<\${diff[3]} - 1> of the second sequence.

In other words, the first hunk consists of the following two lists of items:

```
# 1st pair 2nd pair
# of indices of indices
@list1 = @a[ $cdiff[0] .. $cdiff[2]-1 ];
@list2 = @b[ $cdiff[1] .. $cdiff[3]-1 ];
# Hunk start Hunk end
```


Note that the hunks will always alternate between those that are part of the LCS (those that contain unchanged items) and those that contain changes. This means that all we need to be told is whether the first hunk is a 'same' or 'diff' hunk and we can determine which of the other hunks contain 'same' items or 'diff' items.

By convention, we always make the first hunk contain unchanged items. So the 1st, 3rd, 5th, etc. hunks (all odd-numbered hunks if you start counting from 1) all contain unchanged items. And the 2nd, 4th, 6th, etc. hunks (all even-numbered hunks if you start counting from 1) all contain changed items.

Since @a and @b don't begin with the same value, the first hunk in our example is empty (otherwise we'd violate the above convention). Note that the first 4 index values in our example are all zero. Plug these values into our previous code block and we get:

```
@hunk1a = @a[ 0 .. 0-1 ];  
@hunk1b = @b[ 0 .. 0-1 ];
```

And C<0..-1> returns the empty list.

Move down one pair of indices (2..5) and we get the offset ranges for the second hunk, which contains changed items.

Since C<@diff[2..5]> contains (0,0,1,0) in our example, the second hunk consists of these two lists of items:

```
@hunk2a = @a[ $cdiff[2] .. $cdiff[4]-1 ];  
@hunk2b = @b[ $cdiff[3] .. $cdiff[5]-1 ];  
# or  
@hunk2a = @a[ 0 .. 1-1 ];  
@hunk2b = @b[ 0 .. 0-1 ];  
# or  
@hunk2a = @a[ 0 .. 0 ];  
@hunk2b = @b[ 0 .. -1 ];  
# or  
@hunk2a = ( 'a' );  
@hunk2b = ( );
```

That is, we would delete item 0 ('a') from @a.

Since C<@diff[4..7]> contains (1,0,3,2) in our example, the third hunk consists of these two lists of items:

```
@hunk3a = @a[ $cdiff[4] .. $cdiff[6]-1 ];  
@hunk3a = @b[ $cdiff[5] .. $cdiff[7]-1 ];  
# or
```

```

    @hunk3a = @a[ 1 .. 3-1 ];
    @hunk3a = @b[ 0 .. 2-1 ];
# or
    @hunk3a = @a[ 1 .. 2 ];
    @hunk3a = @b[ 0 .. 1 ];
# or
    @hunk3a = qw( b c );
    @hunk3a = qw( b c );

```

Note that this third hunk contains unchanged items as our convention demands.

You can continue this process until you reach the last two indices, which will always be the number of items in each sequence. This is required so that subtracting one from each will give you the indices to the last items in each sequence.

```
=head2 C<traverse_sequences>
```

C<traverse_sequences> used to be the most general facility provided by this module (the new OO interface is more powerful and much easier to use).

Imagine that there are two arrows. Arrow A points to an element of sequence A, and arrow B points to an element of the sequence B. Initially, the arrows point to the first elements of the respective sequences. C<traverse_sequences> will advance the arrows through the sequences one element at a time, calling an appropriate user-specified callback function before each advance. It will advance the arrows in such a way that if there are equal elements C<\$A[\$i]> and C<\$B[\$j]> which are equal and which are part of the LCS, there will be some moment during the execution of C<traverse_sequences> when arrow A is pointing to C<\$A[\$i]> and arrow B is pointing to C<\$B[\$j]>. When this happens, C<traverse_sequences> will call the C<MATCH> callback function and then it will advance both arrows.

Otherwise, one of the arrows is pointing to an element of its sequence that is not part of the LCS. C<traverse_sequences> will advance that arrow and will call the C<DISCARD_A> or the C<DISCARD_B> callback, depending on which arrow it advanced. If both arrows point to elements that are not part of the LCS, then C<traverse_sequences> will advance one of them and call the appropriate callback, but it is not specified which it will call.

The arguments to C<traverse_sequences> are the two sequences to traverse, and a hash which specifies the callback functions, like this:

```

traverse_sequences(
    \@seq1, \@seq2,

```

```

    { MATCH => $callback_1,
      DISCARD_A => $callback_2,
      DISCARD_B => $callback_3,
    }
  );

```

Callbacks for MATCH, DISCARD_A, and DISCARD_B are invoked with at least the indices of the two arrows as their arguments. They are not expected to return any values. If a callback is omitted from the table, it is not called.

Callbacks for A_FINISHED and B_FINISHED are invoked with at least the corresponding index in A or B.

If arrow A reaches the end of its sequence, before arrow B does, C<traverse_sequences> will call the C<A_FINISHED> callback when it advances arrow B, if there is such a function; if not it will call C<DISCARD_B> instead. Similarly if arrow B finishes first. C<traverse_sequences> returns when both arrows are at the ends of their respective sequences. It returns true on success and false on failure. At present there is no way to fail.

C<traverse_sequences> may be passed an optional fourth parameter; this is a CODE reference to a key generation function. See L</KEY GENERATION FUNCTIONS>.

Additional parameters, if any, will be passed to the key generation function.

If you want to pass additional parameters to your callbacks, but don't need a custom key generation function, you can get the default by passing undef:

```

traverse_sequences(
  \@seq1, \@seq2,
  { MATCH => $callback_1,
    DISCARD_A => $callback_2,
    DISCARD_B => $callback_3,
  },
  undef, # default key-gen
  $myArgument1,
  $myArgument2,
  $myArgument3,
);

```

C<traverse_sequences> does not have a useful return value; you are expected to plug in the appropriate behavior with the callback functions.

=head2 C<traverse_balanced>

C<traverse_balanced> is an alternative to C<traverse_sequences>. It uses a different algorithm to iterate through the entries in the computed LCS. Instead of sticking to one side and showing element changes as insertions and deletions only, it will jump back and forth between the two sequences and report I<changes> occurring as deletions on one side followed immediately by an insertion on the other side.

In addition to the C<DISCARD_A>, C<DISCARD_B>, and C<MATCH> callbacks supported by C<traverse_sequences>, C<traverse_balanced> supports a C<CHANGE> callback indicating that one element got C<replaced> by another:

```
traverse_balanced(  
  \@seq1, \@seq2,  
  { MATCH => $callback_1,  
    DISCARD_A => $callback_2,  
    DISCARD_B => $callback_3,  
    CHANGE  => $callback_4,  
  }  
);
```

If no C<CHANGE> callback is specified, C<traverse_balanced> will map C<CHANGE> events to C<DISCARD_A> and C<DISCARD_B> actions, therefore resulting in a similar behaviour as C<traverse_sequences> with different order of events.

C<traverse_balanced> might be a bit slower than C<traverse_sequences>, noticeable only while processing huge amounts of data.

The C<sdiff> function of this module is implemented as call to C<traverse_balanced>.

C<traverse_balanced> does not have a useful return value; you are expected to plug in the appropriate behavior with the callback functions.

=head1 KEY GENERATION FUNCTIONS

Most of the functions accept an optional extra parameter. This is a CODE reference to a key generating (hashing) function that should return a string that uniquely identifies a given element. It should be the case that if two elements are to be considered equal, their keys should be the same (and the other way around). If no key generation function is provided, the key will be the element as a string.

By default, comparisons will use "eq" and elements will be turned into keys using the default stringizing operator ""

Where this is important is when you're comparing something other than strings. If it is the case that you have multiple different objects that should be considered to be equal, you should supply a key generation function. Otherwise, you have to make sure that your arrays contain unique references.

For instance, consider this example:

```
package Person;

sub new
{
    my $package = shift;
    return bless { name => "", ssn => "", @_ }, $package;
}

sub clone
{
    my $old = shift;
    my $new = bless { %$old }, ref($old);
}

sub hash
{
    return shift()->{'ssn'};
}

my $person1 = Person->new( name => 'Joe', ssn => '123-45-6789' );
my $person2 = Person->new( name => 'Mary', ssn => '123-47-0000' );
my $person3 = Person->new( name => 'Pete', ssn => '999-45-2222' );
my $person4 = Person->new( name => 'Peggy', ssn => '123-45-9999' );
my $person5 = Person->new( name => 'Frank', ssn => '000-45-9999' );
```

If you did this:

```
my $array1 = [ $person1, $person2, $person4 ];
my $array2 = [ $person1, $person3, $person4, $person5 ];
Algorithm::Diff::diff( $array1, $array2 );
```

everything would work out OK (each of the objects would be converted into a string like "Person=HASH(0x82425b0)" for comparison).

But if you did this:

```
my $array1 = [ $person1, $person2, $person4 ];
my $array2 = [ $person1, $person3, $person4->clone(), $person5 ];
Algorithm::Diff::diff( $array1, $array2 );
```

`$person4` and `$person4->clone()` (which have the same name and SSN) would be seen as different objects. If you wanted them to be considered equivalent, you would have to pass in a key generation function:

```
my $array1 = [ $person1, $person2, $person4 ];
my $array2 = [ $person1, $person3, $person4->clone(), $person5 ];
Algorithm::Diff::diff( $array1, $array2, \%Person::hash );
```

This would use the 'ssn' field in each Person as a comparison key, and so would consider `$person4` and `$person4->clone()` as equal.

You may also pass additional parameters to the key generation function if you wish.

=head1 ERROR CHECKING

If you pass these routines a non-reference and they expect a reference, they will die with a message.

=head1 AUTHOR

This version released by Tye McQueen (<http://perlmonks.org/?node=tye>).

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Parts by Tye McQueen.

This program is free software; you can redistribute it and/or modify it under the same terms as Perl.

=head1 MAILING LIST

Mark-Jason still maintains a mailing list. To join a low-volume mailing list for announcements related to diff and Algorithm::Diff, send an empty mail message to mjd-perl-diff-request@plover.com.

=head1 CREDITS

Versions through 0.59 (and much of this documentation) were written by:

Mark-Jason Dominus, mjd-perl-diff@plover.com

This version borrows some documentation and routine names from Mark-Jason's, but Diff.pm's code was completely replaced.

This code was adapted from the Smalltalk code of Mario Wolczko <mario@wolczko.com>, which is available at

ftp://st.cs.uiuc.edu/pub/Smalltalk/MANCHESTER/manchester/4.0/diff.st

C<sdiff> and C<traverse_balanced> were written by Mike Schilli
<m@perlmeister.com>.

The algorithm is that described in
I<A Fast Algorithm for Computing Longest Common Subsequences>,
CACM, vol.20, no.5, pp.350-353, May 1977, with a few
minor improvements to improve the speed.

Much work was done by Ned Konz (perl@bike-nomad.com).

The OO interface and some other changes are by Tye McQueen.

=cut

Found in path(s):

* /opt/cola/permits/1136574725_1613801364.93/0/libalgorithm-diff-perl-1-19-03-orig-1-tar-gz/Algorithm-Diff-1.1903/lib/Algorithm/Diff.pm

1.66 libhtml-tagset-perl 3.20-4

1.66.1 Available under license :

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license: ~

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* /opt/cola/permits/1182845202_1627061982.46/0/libhtml-tagset-perl-3-20-orig-1-tar-gz/HTML-Tagset-3.20/META.yml

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=head1 CAVEATS

You may find it useful to alter the behavior of modules (like
C<HTML::Element> or C<HTML::TreeBuilder>) that use C<HTML::Tagset>'s
data tables by altering the data tables themselves. You are welcome
to try, but be careful; and be aware that different modules may or may
react differently to the data tables being changed.

Note that it may be inappropriate to use these tables for I<producing>
HTML -- for example, C<%isHeadOrBodyElement> lists the tagnames
for all elements that can appear either in the head or in the body,
such as "script". That doesn't mean that I am saying your code that
produces HTML should feel free to put script elements in either place!
If you are producing programs that spit out HTML, you should be
I<intimately> familiar with the DTDs for HTML or XHTML (available at

C<<http://www.w3.org/>>), and you should slavishly obey them, not the data tables in this document.

=head1 SEE ALSO

L<HTML::Element>, L<HTML::TreeBuilder>, L<HTML::LinkExtor>

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Copyright 2005-2008 Andy Lester.

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=head1 ACKNOWLEDGEMENTS

Most of the code/data in this module was adapted from code written by Gisle Aas for C<HTML::Element>, C<HTML::TreeBuilder>, and C<HTML::LinkExtor>. Then it was maintained by Sean M. Burke.

=head1 AUTHOR

Current maintainer: Andy Lester, C<< <[andy at petdance.com](mailto:andy@petdance.com)> >>

=head1 BUGS

Please report any bugs or feature requests to C<[bug-html-tagset at rt.cpan.org](mailto:bug-html-tagset@rt.cpan.org)>, or through the web interface at L<<http://rt.cpan.org/NoAuth/ReportBug.html?Queue=HTML-Tagset>>. I will be notified, and then you'll automatically be notified of progress on your bug as I make changes.

=cut

Found in path(s):

* /opt/cola/permits/1182845202_1627061982.46/0/libhtml-tagset-perl-3-20-orig-1-tar-gz/HTML-Tagset-3.20/Tagset.pm

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README for HTML::Tagset

HTML::Tagset

This module contains data tables useful in dealing with HTML.

It provides no functions or methods.

PREREQUISITES

This suite requires Perl 5.

HTML::Tagset doesn't use any nonstandard modules.

INSTALLATION

You install HTML::Tagset, as you would install any perl module library, by running these commands:

```
perl Makefile.PL
make
make test
make install
```

If you want to install a private copy of HTML::Tagset in your home directory, then you should try to produce the initial Makefile with something like this command:

```
perl Makefile.PL LIB=~/.perl
```

DOCUMENTATION

POD-format documentation is included in Tagset.pm. POD is readable with the 'perldoc' utility. See ChangeLog for recent changes.

MACPERL INSTALLATION NOTES

Don't bother with the makefiles. Just make a HTML directory in your MacPerl site_lib or lib directory, and move Tagset.pm into there.

SUPPORT

Questions, bug reports, and suggestions for HTML::Tagset should just be sent to me at sburke@cpan.org

AVAILABILITY

The latest version of HTML::Tagset is available from the Comprehensive Perl Archive Network (CPAN). Visit <http://www.perl.com/CPAN/> to find a CPAN site near you.

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1.67 python 3.8.10-0ubuntu1~20.04.1

1.67.1 Available under license :

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A. HISTORY OF THE SOFTWARE

=====

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes

1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under the GPL. All Python licenses, unlike the GPL, let you distribute a modified version without making your changes open source. The GPL-compatible licenses make it possible to combine Python with other software that is released under the GPL; the others don't.

(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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This is free software, and you are welcome to redistribute it  
under certain conditions; type `show c' for details.
```

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1.70 pyjwt 1.7.1

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1.71 tzdata 2021e-0ubuntu0.20.04

1.71.1 Available under license :

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It was downloaded from <https://www.iana.org/time-zones>

Upstream Author: The Internet Assigned Numbers Authority (IANA)
Commentary should be addressed to tz@iana.org

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Files: debian/icu/*.txt

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#

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1.72 python-jsonschema 3.2.0-0ubuntu2

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1.73 libnet-libidn-perl 0.12.ds-3build2

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1.74 netbase 6.1

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1.75 jsonschema 3.2.0-1.ph4

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1.76 pastebinit 1.5.1-1

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```
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1.80 libjson-any-perl 1.39-2

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```
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```

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```
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at assemblers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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The End

1.81 tdb 1.4.3-0ubuntu0.20.04.1

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1.82 python-jsonpointer 2.0-0ubuntu1

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1.83 distro-info-data 0.43ubuntu1.9

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1.84 xfsprogs 5.3.0-1ubuntu2

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1.85 finalrd 5

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1.91 grep 3.4 1

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```
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1.92 python-attrs 19.3.0-2

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1.93 pam 1.3.1-5ubuntu4

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<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

```
<xsl:stylesheet version="1.0"
  xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
  xmlns:xi="http://www.w3.org/2001/XInclude"
  xmlns:db="http://docbook.org/ns/docbook">

  <xsl:template name="isc.copyright.format">
    <xsl:param name="text"/>
    <xsl:value-of select="$isc.copyright.leader"/>
    <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
    <xsl:text>&#10;</xsl:text>
    <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
    <xsl:if test="translate($rest, '&#9;&#32;', '')">
      <xsl:call-template name="isc.copyright.format">
        <xsl:with-param name="text" select="$rest"/>
      </xsl:call-template>
    </xsl:if>
  </xsl:template>

  <xsl:variable name="isc.copyright.text">
    <xsl:text>
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    </xsl:text>
  </xsl:variable>

  <xsl:variable name="isc.copyright">
    <xsl:call-template name="isc.copyright.format">
      <xsl:with-param name="text">
        <xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">
          <xsl:text>Copyright (C) </xsl:text>
          <xsl:call-template name="copyright.years">
            <xsl:with-param name="years" select="year"/>
          </xsl:call-template>
          <xsl:text> </xsl:text>
          <xsl:value-of select="holder"/>
          <xsl:value-of select="$isc.copyright.breakline"/>
          <xsl:text>&#10;</xsl:text>
        </xsl:for-each>
      </xsl:with-param>
    </xsl:call-template>
  </xsl:variable>
</xsl:stylesheet>

<!--
```

- Local variables:

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1.95 icu 66.1-2ubuntu2.1

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## Commands to generate dependency files
GEN_DEPS.c= $(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc= $(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE= -Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%. $(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%. $(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<
```

```

## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.c) $< \
| sed "s/^(.*)\.o[ :]*/\1.o $@ : /g'" > $@; \
[ -s $@ ] || rm -f $@

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \
| sed "s/^(.*)\.o[ :]*/\1.o $@ : /g'" > $@; \
[ -s $@ ] || rm -f $@

## Versioned libraries rules

%.${SO}.${SO_TARGET_VERSION_MAJOR}: %.${SO}.${SO_TARGET_VERSION}
$(RM) $@ && ln -s ${<F} $@
%.${SO}: %.${SO}.${SO_TARGET_VERSION_MAJOR}
$(RM) $@ && ln -s ${*F}.${SO}.${SO_TARGET_VERSION} $@

## Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic

# Dependencies [i.e. map files] for the final library
BIR_DEPS=

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

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1.96 zlib 1.2.11.dfsg-2ubuntu1

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version 1.2.11, January 15th, 2017

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1.97 libidn 2.2.0 2

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```

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1.98 libio-socket-ssl-perl 2.067-1

1.98.1 Available under license :

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```
---
abstract: 'Nearly transparent SSL encapsulation for IO::Socket::INET.'
author:
  - 'Steffen Ullrich <sullr@cpan.org>, Peter Behroozi, Marko Asplund'
build_requires:
  ExtUtils::MakeMaker: '0'
configure_requires:
  ExtUtils::MakeMaker: '0'
  Net::SSLeay: '1.46'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.24, CPAN::Meta::Converter version 2.150010'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: '1.4'
name: IO-Socket-SSL
no_index:
  directory:
    - t
    - inc
requires:
  Mozilla::CA: '0'
  Net::SSLeay: '1.46'
  Scalar::Util: '0'
resources:
  bugtracker: https://rt.cpan.org/Dist/Display.html?Queue=IO-Socket-SSL
  homepage: https://github.com/noxxi/p5-io-socket-ssl
  license: http://dev.perl.org/licenses/
  repository: https://github.com/noxxi/p5-io-socket-ssl
  version: '2.067'
```

x_serialization_backend: 'CPAN::Meta::YAML version 0.018'

Found in path(s):

* /opt/cola/permits/1146929071_1616836857.87/0/libio-socket-ssl-perl-2-067-orig-tar-gz/IO-Socket-SSL-2.067/META.yml

No license file was found, but licenses were detected in source scan.

=head1 NAME

IO::Socket::SSL - SSL sockets with IO::Socket interface

=head1 SYNOPSIS

```
use strict;
use IO::Socket::SSL;

# simple client
my $cl = IO::Socket::SSL->new('www.google.com:443');
print $cl "GET / HTTP/1.0\r\n\r\n";
print <$cl>;

# simple server
my $srv = IO::Socket::SSL->new(
LocalAddr => '0.0.0.0:1234',
Listen => 10,
SSL_cert_file => 'server-cert.pem',
SSL_key_file => 'server-key.pem',
);
$srv->accept;
```

=head1 DESCRIPTION

IO::Socket::SSL makes using SSL/TLS much easier by wrapping the necessary functionality into the familiar L<IO::Socket> interface and providing secure defaults whenever possible.

This way, existing applications can be made SSL-aware without much effort, at least if you do blocking I/O and don't use select or poll.

But, under the hood, SSL is a complex beast.

So there are lots of methods to make it do what you need if the default behavior is not adequate.

Because it is easy to inadvertently introduce critical security bugs or just hard to debug problems, I would recommend studying the following documentation carefully.

The documentation consists of the following parts:

=over 4

=item * L<"Essential Information About SSL/TLS">

=item * L<"Basic SSL Client">

=item * L<"Basic SSL Server">

=item * L<"Common Usage Errors">

=item * L<"Common Problems with SSL">

=item * L<"Using Non-Blocking Sockets">

=item * L<"Advanced Usage">

=item * L<"Integration Into Own Modules">

=item * L<"Description Of Methods">

=back

Additional documentation can be found in

=over 4

=item * L<IO::Socket::SSL::Intercept> - Doing Man-In-The-Middle with SSL

=item * L<IO::Socket::SSL::Utils> - Useful functions for certificates etc

=back

=head1 Essential Information About SSL/TLS

SSL (Secure Socket Layer) or its successor TLS (Transport Layer Security) are protocols to facilitate end-to-end security. These protocols are used when accessing web sites (https), delivering or retrieving email, and in lots of other use cases.

In the following documentation we will refer to both SSL and TLS as simply 'SSL'.

SSL enables end-to-end security by providing two essential functions:

=over 4

=item Encryption

This part encrypts the data for transit between the communicating parties, so that nobody in between can read them. It also provides tamper resistance so that

nobody in between can manipulate the data.

=item Identification

This part makes sure that you talk to the right peer.

If the identification is done incorrectly it is easy to mount man-in-the-middle attacks, e.g. if Alice wants to talk to Bob it would be possible for Mallory to put itself in the middle, so that Alice talks to Mallory and Mallory to Bob.

All the data would still be encrypted, but not end-to-end between Alice and Bob, but only between Alice and Mallory and then between Mallory and Bob.

Thus Mallory would be able to read and modify all traffic between Alice and Bob.

=back

Identification is the part which is the hardest to understand and the easiest to get wrong.

With SSL, the Identification is usually done with B<certificates> inside a B<PKI> (Public Key Infrastructure).

These Certificates are comparable to an identity card, which contains information about the owner of the card. The card then is somehow B<signed> by the B<issuer> of the card, the B<CA> (Certificate Agency).

To verify the identity of the peer the following must be done inside SSL:

=over 4

=item *

Get the certificate from the peer.

If the peer does not present a certificate we cannot verify it.

=item *

Check if we trust the certificate, e.g. make sure it's not a forgery.

We believe that a certificate is not a fake if we either know the certificate already or if we B<trust> the issuer (the CA) and can verify the issuers signature on the certificate.

In reality there is often a hierarchy of certificate agencies and we only directly trust the root of this hierarchy.

In this case the peer not only sends his own certificate, but also all B<intermediate certificates>.

Verification will be done by building a B<trust path> from the trusted root up to the peers certificate and checking in each step if the we can verify the issuer's signature.

This step often causes problems because the client does not know the necessary

trusted root certificates. These are usually stored in a system dependent CA store, but often the browsers have their own CA store.

=item *

Check if the certificate is still valid.

Each certificate has a lifetime and should not be used after that time because it might be compromised or the underlying cryptography got broken in the mean time.

=item *

Check if the subject of the certificate matches the peer.

This is like comparing the picture on the identity card against the person representing the identity card.

When connecting to a server this is usually done by comparing the hostname used for connecting against the names represented in the certificate.

A certificate might contain multiple names or wildcards, so that it can be used for multiple hosts (e.g. *.example.com and *.example.org).

Although nobody sane would accept an identity card where the picture does not match the person we see, it is a common implementation error with SSL to omit this check or get it wrong.

=item *

Check if the certificate was revoked by the issuer.

This might be the case if the certificate was compromised somehow and now somebody else might use it to claim the wrong identity.

Such revocations happened a lot after the heartbleed attack.

For SSL there are two ways to verify a revocation, CRL and OCSP.

With CRLs (Certificate Revocation List) the CA provides a list of serial numbers for revoked certificates. The client somehow has to download the list (which can be huge) and keep it up to date.

With OCSP (Online Certificate Status Protocol) the client can check a single certificate directly by asking the issuer.

Revocation is the hardest part of the verification and none of today's browsers get it fully correct. But, they are still better than most other implementations which don't implement revocation checks or leave the hard parts to the developer.

=back

When accessing a web site with SSL or delivering mail in a secure way the identity is usually only checked one way, e.g. the client wants to make sure it

talks to the right server, but the server usually does not care which client it talks to.

But, sometimes the server wants to identify the client too and will request a certificate from the client which the server must verify in a similar way.

=head1 Basic SSL Client

A basic SSL client is simple:

```
my $client = IO::Socket::SSL->new('www.example.com:443')
or die "error=$!, ssl_error=$SSL_ERROR";
```

This will take the OpenSSL default CA store as the store for the trusted CA. This usually works on UNIX systems. If there are no certificates in the store it will try use L<Mozilla::CA> which provides the default CAs of Firefox.

In the default settings, L<IO::Socket::SSL> will use a safer cipher set and SSL version, do a proper hostname check against the certificate, and use SNI (server name indication) to send the hostname inside the SSL handshake. This is necessary to work with servers which have different certificates behind the same IP address.

It will also check the revocation of the certificate with OCSP, but currently only if the server provides OCSP stapling (for deeper checks see C<ocsp_resolver> method).

Lots of options can be used to change ciphers, SSL version, location of CA and much more. See documentation of methods for details.

With protocols like SMTP it is necessary to upgrade an existing socket to SSL. This can be done like this:

```
my $client = IO::Socket::INET->new('mx.example.com:25') or die $!;
# .. read greeting from server
# .. send EHLO and read response
# .. send STARTTLS command and read response
# .. if response was successful we can upgrade the socket to SSL now:
IO::Socket::SSL->start_SSL($client,
# explicitly set hostname we should use for SNI
SSL_hostname => 'mx.example.com'
) or die $SSL_ERROR;
```

A more complete example for a simple HTTP client:

```
my $client = IO::Socket::SSL->new(
# where to connect
PeerHost => "www.example.com",
```

```

PeerPort => "https",

# certificate verification - VERIFY_PEER is default
SSL_verify_mode => SSL_VERIFY_PEER,

# location of CA store
# need only be given if default store should not be used
SSL_ca_path => '/etc/ssl/certs', # typical CA path on Linux
SSL_ca_file => '/etc/ssl/cert.pem', # typical CA file on BSD

# or just use default path on system:
IO::Socket::SSL::default_ca(), # either explicitly
# or implicitly by not giving SSL_ca_*

# easy hostname verification
# It will use PeerHost as default name a verification
# scheme as default, which is safe enough for most purposes.
SSL_verifycn_name => 'foo.bar',
SSL_verifycn_scheme => 'http',

# SNI support - defaults to PeerHost
SSL_hostname => 'foo.bar',

) or die "failed connect or ssl handshake: $!, $SSL_ERROR";

# send and receive over SSL connection
print $client "GET / HTTP/1.0\r\n\r\n";
print <$client>;

And to do revocation checks with OCSP (only available with OpenSSL 1.0.0 or
higher and L<Net::SSL> 1.59 or higher):

# default will try OCSP stapling and check only leaf certificate
my $client = IO::Socket::SSL->new($dst);

# better yet: require checking of full chain
my $client = IO::Socket::SSL->new(
PeerAddr => $dst,
SSL_ocsp_mode => SSL_OCSP_FULL_CHAIN,
);

# even better: make OCSP errors fatal
# (this will probably fail with lots of sites because of bad OCSP setups)
# also use common OCSP response cache
my $ocsp_cache = IO::Socket::SSL::OCSP_Cache->new;
my $client = IO::Socket::SSL->new(
PeerAddr => $dst,
SSL_ocsp_mode => SSL_OCSP_FULL_CHAIN|SSL_OCSP_FAIL_HARD,

```

```

SSL_ocsp_cache => $ocsp_cache,
);

# disable OCSP stapling in case server has problems with it
my $client = IO::Socket::SSL->new(
PeerAddr => $dst,
SSL_ocsp_mode => SSL_OCSP_NO_STAPLE,
);

# check any certificates which are not yet checked by OCSP stapling or
# where we have already cached results. For your own resolving combine
# $ocsp->requests with $ocsp->add_response(uri,response).
my $ocsp = $client->ocsp_resolver();
my $errors = $ocsp->resolve_blocking();
if ($errors) {
warn "OCSP verification failed: $errors";
close($client);
}

```

=head1 Basic SSL Server

A basic SSL server looks similar to other L<IO::Socket> servers, only that it also contains settings for certificate and key:

```

# simple server
my $server = IO::Socket::SSL->new(
# where to listen
LocalAddr => '127.0.0.1',
LocalPort => 8080,
Listen => 10,

# which certificate to offer
# with SNI support there can be different certificates per hostname
SSL_cert_file => 'cert.pem',
SSL_key_file => 'key.pem',
) or die "failed to listen: $!";

# accept client
my $client = $server->accept or die
"failed to accept or ssl handshake: $!, $SSL_ERROR";

```

This will automatically use a secure set of ciphers and SSL version and also supports Forward Secrecy with (Elliptic-Curve) Diffie-Hellmann Key Exchange.

If you are doing a forking or threading server, we recommend that you do the SSL handshake inside the new process/thread so that the master is free for new connections.

We recommend this because a client with improper or slow SSL handshake could

make the server block in the handshake which would be bad to do on the listening socket:

```
# inet server
my $server = IO::Socket::INET->new(
# where to listen
LocalAddr => '127.0.0.1',
LocalPort => 8080,
Listen => 10,
);

# accept client
my $client = $server->accept or die;

# SSL upgrade client (in new process/thread)
IO::Socket::SSL->start_SSL($client,
SSL_server => 1,
SSL_cert_file => 'cert.pem',
SSL_key_file => 'key.pem',
) or die "failed to ssl handshake: $SSL_ERROR";
```

Like with normal sockets, neither forking nor threading servers scale well. It is recommended to use non-blocking sockets instead, see [L<"/Using Non-Blocking Sockets">](#)

=head1 Common Usage Errors

This is a list of typical errors seen with the use of [L<IO::Socket::SSL>](#):

=over 4

=item *

Disabling verification with [C<SSL_verify_mode>](#).

As described in [L<"/Essential Information About SSL/TLS">](#), a proper identification of the peer is essential and failing to verify makes Man-In-The-Middle attacks possible.

Nevertheless, lots of scripts and even public modules or applications disable verification, because it is probably the easiest way to make the thing work and usually nobody notices any security problems anyway.

If the verification does not succeed with the default settings, one can do the following:

=over 8

=item *

Make sure the needed CAs are in the store, maybe use C<SSL_ca_file> or C<SSL_ca_path> to specify a different CA store.

=item *

If the validation fails because the certificate is self-signed and that's what you expect, you can use the C<SSL_fingerprint> option to accept specific leaf certificates by their certificate or pubkey fingerprint.

=item *

If the validation failed because the hostname does not match and you cannot access the host with the name given in the certificate, you can use C<SSL_verifycn_name> to specify the hostname you expect in the certificate.

=back

A common error pattern is also to disable verification if they found no CA store (different modules look at different "default" places).

Because L<IO::Socket::SSL> is now able to provide a usable CA store on most platforms (UNIX, Mac OSX and Windows) it is better to use the defaults provided by L<IO::Socket::SSL>.

If necessary these can be checked with the C<default_ca> method.

=item *

Polling of SSL sockets (e.g. select, poll and other event loops).

If you sysread one byte on a normal socket it will result in a syscall to read one byte. Thus, if more than one byte is available on the socket it will be kept in the network stack of your OS and the next select or poll call will return the socket as readable.

But, with SSL you don't deliver single bytes. Multiple data bytes are packaged and encrypted together in an SSL frame. Decryption can only be done on the whole frame, so a sysread for one byte actually reads the complete SSL frame from the socket, decrypts it and returns the first decrypted byte. Further sysreads will return more bytes from the same frame until all bytes are returned and the next SSL frame will be read from the socket.

Thus, in order to decide if you can read more data (e.g. if sysread will block) you must check if there are still data in the current SSL frame by calling C<pending> and if there are no data pending you might check the underlying socket with select or poll.

Another way might be if you try to sysread at least 16kByte all the time.

16kByte is the maximum size of an SSL frame and because sysread returns data from only a single SSL frame you can guarantee that there are no pending

data.

Additionally, contrary to plain sockets the data delivered on the socket are not necessarily application payload.

It might be a TLS handshake, it might just be the beginning of a TLS record or it might be TLS session tickets which are sent after the TLS handshake in TLS 1.3.

In such situations `select` will return that data are available for read since it only looks at the plain socket.

A `sysread` on the `IO::Socket::SSL` socket will not return any data though since it is an abstraction which only returns application data.

This causes the `sysread` to hang in case the socket was blocking or to return an error with `EAGAIN` on non-blocking sockets.

Applications using `select` or similar should therefore set the socket to non-blocking and also expect that the `sysread` might temporarily fail with `EAGAIN`.

See also [L<"/Using Non-Blocking Sockets">](#).

=item *

Expecting exactly the same behavior as plain sockets.

`IO::Socket::SSL` tries to emulate the usual socket behavior as good as possible, but full emulation can not be done. Specifically a read on the SSL socket might also result in a write on the TCP socket or a write on the SSL socket might result in a read on the TCP socket. Also `C<accept>` and `B<close>` on the SSL socket will result in writing and reading data to the TCP socket too.

Especially the hidden writes might result in a connection reset if the underlying TCP socket is already closed by the peer. Unless signal `PIPE` is explicitly handled by the application this will usually result in the application crashing. It is thus recommended to explicitly `IGNORE` signal `PIPE` so that the errors get propagated as `EPIPE` instead of causing a crash of the application.

=item *

Set `'SSL_version'` or `'SSL_cipher_list'` to a "better" value.

`L<IO::Socket::SSL>` tries to set these values to reasonable, secure values which are compatible with the rest of the world.

But, there are some scripts or modules out there which tried to be smart and get more secure or compatible settings.

Unfortunately, they did this years ago and never updated these values, so they are still forced to do only `'TLSv1'` (instead of also using `'TLSv12'` or `'TLSv11'`).

Or they set `'HIGH'` as the cipher list and thought they were secure, but did not notice that `'HIGH'` includes anonymous ciphers, e.g. without identification of

the peer.

So it is recommended to leave the settings at the secure defaults which L<IO::Socket::SSL> sets and which get updated from time to time to better fit the real world.

=item *

Make SSL settings inaccessible by the user, together with bad builtin settings.

Some modules use L<IO::Socket::SSL>, but don't make the SSL settings available to the user. This is often combined with bad builtin settings or defaults (like switching verification off).

Thus the user needs to hack around these restrictions by using C<set_args_filter_hack> or similar.

=item *

Use of constants as strings.

Constants like C<SSL_VERIFY_PEER> or C<SSL_WANT_READ> should be used as constants and not be put inside quotes, because they represent numerical values.

=item *

Forking and handling the socket in parent and child.

A B<fork> of the process will duplicate the internal user space SSL state of the socket. If both master and child interact with the socket by using their own SSL state strange error messages will happen. Such interaction includes explicit or implicit B<close> of the SSL socket. To avoid this the socket should be explicitly closed with B<SSL_no_shutdown>.

=item *

Forking and executing a new process.

Since the SSL state is stored in user space it will be duplicated by a B<fork> but it will be lost when doing B<exec>. This means it is not possible to simply redirect stdin and stdout for the new process to the SSL socket by duplicating the relevant file handles. Instead explicitly exchanging plain data between child-process and SSL socket are needed.

=back

=head1 Common Problems with SSL

SSL is a complex protocol with multiple implementations and each of these has their own quirks. While most of these implementations work together, it often gets problematic with older versions, minimal versions in load balancers, or plain wrong setups.

Unfortunately these problems are hard to debug.

Helpful for debugging are a knowledge of SSL internals, Wireshark and the use of the debug settings of `L<IO::Socket::SSL>` and `L<Net::SSLay>`, which can both be set with `C<$IO::Socket::SSL::DEBUG>`.

The following debug levels are defined, but used not in any consistent way:

=over 4

=item *

0 - No debugging (default).

=item *

1 - Print out errors from `L<IO::Socket::SSL>` and ciphers from `L<Net::SSLay>`.

=item *

2 - Print also information about call flow from `L<IO::Socket::SSL>` and progress information from `L<Net::SSLay>`.

=item *

3 - Print also some data dumps from `L<IO::Socket::SSL>` and from `L<Net::SSLay>`.

=back

Also, `C<analyze-ssl.pl>` from the `ssl-tools` repository at `L<https://github.com/noxxi/p5-ssl-tools>` might be a helpful tool when debugging SSL problems, as do the `C<openssl>` command line tool and a check with a different SSL implementation (e.g. a web browser).

The following problems are not uncommon:

=over 4

=item *

Bad server setup: missing intermediate certificates.

It is a regular problem that administrators fail to include all necessary

certificates into their server setup, e.g. everything needed to build the trust chain from the trusted root.

If they check the setup with the browser everything looks ok, because browsers work around these problems by caching any intermediate certificates and apply them to new connections if certificates are missing.

But, fresh browser profiles which have never seen these intermediates cannot fill in the missing certificates and fail to verify; the same is true with L<IO::Socket::SSL>.

=item *

Old versions of servers or load balancers which do not understand specific TLS versions or croak on specific data.

From time to time one encounters an SSL peer, which just closes the connection inside the SSL handshake. This can usually be worked around by downgrading the SSL version, e.g. by setting C<SSL_version>. Modern Browsers usually deal with such servers by automatically downgrading the SSL version and repeat the connection attempt until they succeed.

Worse servers do not close the underlying TCP connection but instead just drop the relevant packet. This is harder to detect because it looks like a stalled connection. But downgrading the SSL version often works here too.

A cause of such problems are often load balancers or security devices, which have hardware acceleration and only a minimal (and less robust) SSL stack. They can often be detected because they support much fewer ciphers than other implementations.

=item *

Bad or old OpenSSL versions.

L<IO::Socket::SSL> uses OpenSSL with the help of the L<Net::SSLeay> library. It is recommend to have a recent version of this library, because it has more features and usually fewer known bugs.

=item *

Validation of client certificates fail.

Make sure that the purpose of the certificate allows use as ssl client (check with C<< openssl x509 -purpose >>, that the necessary root certificate is in the path specified by C<SSL_ca*> (or the default path) and that any intermediate certificates needed to build the trust chain are sent by the client.

=item *

Validation of self-signed certificate fails even if it is given with C<SSL_ca*> argument.

The C<SSL_ca*> arguments do not give a general trust store for arbitrary certificates but only specify a store for CA certificates which then can be used to verify other certificates. This especially means that certificates which are not a CA get simply ignored, notably self-signed certificates which do not also have the CA-flag set.

This behavior of OpenSSL differs from the more general trust-store concept which can be found in browsers and where it is possible to simply added arbitrary certificates (CA or not) as trusted.

=back

=head1 Using Non-Blocking Sockets

If you have a non-blocking socket, the expected behavior on read, write, accept or connect is to set C<\$!> to EWOULDBLOCK if the operation cannot be completed immediately. Note that EWOULDBLOCK is the same as EAGAIN on UNIX systems, but is different on Windows.

With SSL, handshakes might occur at any time, even within an established connection. In these cases it is necessary to finish the handshake before you can read or write data. This might result in situations where you want to read but must first finish the write of a handshake or where you want to write but must first finish a read.

In these cases C<\$!> is set to EAGAIN like expected, and additionally C<\$\$\$SSL_ERROR> is set to either SSL_WANT_READ or SSL_WANT_WRITE. Thus if you get EWOULDBLOCK on a SSL socket you must check C<\$\$\$SSL_ERROR> for SSL_WANT_* and adapt your event mask accordingly.

Using readline on non-blocking sockets does not make much sense and I would advise against using it.

And, while the behavior is not documented for other L<IO::Socket> classes, it will try to emulate the behavior seen there, e.g. to return the received data instead of blocking, even if the line is not complete. If an unrecoverable error occurs it will return nothing, even if it already received some data.

Also, I would advise against using C<accept> with a non-blocking SSL object because it might block and this is not what most would expect. The reason for this is that C<accept> on a non-blocking TCP socket (e.g. L<IO::Socket::IP>, L<IO::Socket::INET>..) results in a new TCP socket which does not inherit the non-blocking behavior of the master socket. And thus, the initial SSL handshake

on the new socket inside C<IO::Socket::SSL::accept> will be done in a blocking way. To work around this you are safer by doing a TCP accept and later upgrade the TCP socket in a non-blocking way with C<start_SSL> and C<accept_SSL>.

```
my $cl = IO::Socket::SSL->new($dst);
$cl->blocking(0);
my $sel = IO::Select->new($cl);
while (1) {
# with SSL a call for reading n bytes does not result in reading of n
# bytes from the socket, but instead it must read at least one full SSL
# frame. If the socket has no new bytes, but there are unprocessed data
# from the SSL frame can_read will block!

# wait for data on socket
$sel->can_read();

# new data on socket or eof
READ:
# this does not read only 1 byte from socket, but reads the complete SSL
# frame and then just returns one byte. On subsequent calls it than
# returns more byte of the same SSL frame until it needs to read the
# next frame.
my $n = sysread( $cl,my $buf,1);
if ( ! defined $n ) {
    die $! if not ${EWOULDBLOCK};
    next if $SSL_ERROR == SSL_WANT_READ;
    if ( $SSL_ERROR == SSL_WANT_WRITE ) {
# need to write data on renegotiation
$sel->can_write;
next;
    }
    die "something went wrong: $SSL_ERROR";
} elsif ( ! $n ) {
    last; # eof
} else {
    # read next bytes
    # we might have still data within the current SSL frame
    # thus first process these data instead of waiting on the underlying
    # socket object
    goto READ if $cl->pending; # goto sysread
    next;          # goto $sel->can_read
}
}
```

Additionally there are differences to plain sockets when using select, poll, kqueue or similar technologies to get notified if data are available.

Relying only on these calls is not sufficient in all cases since unread data

might be internally buffered in the SSL stack. To detect such buffering `B<pending()>` need to be used. Alternatively the buffering can be avoided by using `B<sysread>` with the maximum size of an SSL frame. See [L</"Common Usage Errors">](#) for details.

=head1 Advanced Usage

=head2 SNI Support

Newer extensions to SSL can distinguish between multiple hostnames on the same IP address using Server Name Indication (SNI).

Support for SNI on the client side was added somewhere in the OpenSSL 0.9.8 series, but with 1.0 a bug was fixed when the server could not decide about its hostname. Therefore client side SNI is only supported with OpenSSL 1.0 or higher in `L<IO::Socket::SSL>`.

With a supported version, SNI is used automatically on the client side, if it can determine the hostname from `C<PeerAddr>` or `C<PeerHost>` (which are synonyms in the underlying `IO::Socket::` classes and thus should never be set both or at least not to different values).

On unsupported OpenSSL versions it will silently not use SNI.

The hostname can also be given explicitly given with `C<SSL_hostname>`, but in this case it will throw in error, if SNI is not supported.

To check for support you might call `C<< IO::Socket::SSL->can_client_sni() >>`.

On the server side, earlier versions of OpenSSL are supported, but only together with `L<Net::SSLeay>` version `>= 1.50`.

To check for support you might call `C<< IO::Socket::SSL->can_server_sni() >>`.

If server side SNI is supported, you might specify different certificates per host with `C<SSL_cert*>` and `C<SSL_key*>`, and check the requested name using `C<get_servername>`.

=head2 Talk Plain and SSL With The Same Socket

It is often required to first exchange some plain data and then upgrade the socket to SSL after some kind of STARTTLS command. Protocols like FTPS even need a way to downgrade the socket again back to plain.

The common way to do this would be to create a normal socket and use `C<start_SSL>` to upgrade and `stop_SSL` to downgrade:

```
my $sock = IO::Socket::INET->new(...) or die $!;
... exchange plain data on $sock until starttls command ...
IO::Socket::SSL->start_SSL($sock,%sslargs) or die $SSL_ERROR;
... now $sock is an IO::Socket::SSL object ...
... exchange data with SSL on $sock until stoptls command ...
$sock->stop_SSL or die $SSL_ERROR;
... now $sock is again an IO::Socket::INET object ...
```

But, lots of modules just derive directly from L<IO::Socket::INET>.

While this base class can be replaced with L<IO::Socket::SSL>, these modules cannot easily support different base classes for SSL and plain data and switch between these classes on a starttls command.

To help in this case, L<IO::Socket::SSL> can be reduced to a plain socket on startup, and connect_SSL/accept_SSL/start_SSL can be used to enable SSL and C<stop_SSL> to talk plain again:

```
my $sock = IO::Socket::SSL->new(
PeerAddr => ...
SSL_startHandshake => 0,
%sslargs
) or die $!;
... exchange plain data on $sock until starttls command ...
$sock->connect_SSL or die $SSL_ERROR;
... now $sock is an IO::Socket::SSL object ...
... exchange data with SSL on $sock until stoptls command ...
$sock->stop_SSL or die $SSL_ERROR;
... $sock is still an IO::Socket::SSL object ...
... but data exchanged again in plain ...
```

=head1 Integration Into Own Modules

L<IO::Socket::SSL> behaves similarly to other L<IO::Socket> modules and thus could be integrated in the same way, but you have to take special care when using non-blocking I/O (like for handling timeouts) or using select or poll. Please study the documentation on how to deal with these differences.

Also, it is recommended to not set or touch most of the C<SSL_*> options, so that they keep their secure defaults. It is also recommended to let the user override these SSL specific settings without the need of global settings or hacks like C<set_args_filter_hack>.

The notable exception is C<SSL_verifycn_scheme>.

This should be set to the hostname verification scheme required by the module or protocol.

=head1 Description Of Methods

L<IO::Socket::SSL> inherits from another L<IO::Socket> module.

The choice of the super class depends on the installed modules:

=over 4

=item *

If L<IO::Socket::IP> with at least version 0.20 is installed it will use this module as super class, transparently providing IPv6 and IPv4 support.

=item *

If L<IO::Socket::INET6> is installed it will use this module as super class, transparently providing IPv6 and IPv4 support.

=item *

Otherwise it will fall back to L<IO::Socket::INET>, which is a perl core module. With L<IO::Socket::INET> you only get IPv4 support.

=back

Please be aware that with the IPv6 capable super classes, it will look first for the IPv6 address of a given hostname. If the resolver provides an IPv6 address, but the host cannot be reached by IPv6, there will be no automatic fallback to IPv4.

To avoid these problems you can enforce IPv4 for a specific socket by using the C<Domain> or C<Family> option with the value AF_INET as described in L<IO::Socket::IP>. Alternatively you can enforce IPv4 globally by loading L<IO::Socket::SSL> with the option 'inet4', in which case it will use the IPv4 only class L<IO::Socket::INET> as the super class.

L<IO::Socket::SSL> will provide all of the methods of its super class, but sometimes it will override them to match the behavior expected from SSL or to provide additional arguments.

The new or changed methods are described below, but please also read the section about SSL specific error handling.

=over 4

=item Error Handling

If an SSL specific error occurs, the global variable C<\$SSL_ERROR> will be set.

If the error occurred on an existing SSL socket, the method C<errstr> will give access to the latest socket specific error.

Both C<\$SSL_ERROR> and the C<errstr> method give a dualvar similar to C<\$!>, e.g. providing an error number in numeric context or an error description in string context.

=item B<new(...)>

Creates a new L<IO::Socket::SSL> object. You may use all the friendly options that came bundled with the super class (e.g. L<IO::Socket::IP>, L<IO::Socket::INET>, ...) plus (optionally) the ones described below. If you don't specify any SSL related options it will do its best in using secure defaults, e.g. choosing good ciphers, enabling proper verification, etc.

=over 2

=item SSL_server

Set this option to a true value if the socket should be used as a server. If this is not explicitly set it is assumed if the C<Listen> parameter is given when creating the socket.

=item SSL_hostname

This can be given to specify the hostname used for SNI, which is needed if you have multiple SSL hostnames on the same IP address. If not given it will try to determine the hostname from C<PeerAddr>, which will fail if only an IP was given or if this argument is used within C<start_SSL>.

If you want to disable SNI, set this argument to "".

Currently only supported for the client side and will be ignored for the server side.

See section "SNI Support" for details of SNI the support.

=item SSL_startHandshake

If this option is set to false (defaults to true) it will not start the SSL handshake yet. This has to be done later with C<accept_SSL> or C<connect_SSL>. Before the handshake is started read/write/etc. can be used to exchange plain data.

=item SSL_keepSocketOnError

If this option is set to true (defaults to false) it will not close the underlying TCP socket on errors. In most cases there is no real use for this behavior since both sides of the TCP connection will probably have a different idea of the current state of the connection.

=item SSL_ca | SSL_ca_file | SSL_ca_path

Usually you want to verify that the peer certificate has been signed by a trusted certificate authority. In this case you should use this option to

specify the file (C<SSL_ca_file>) or directory (C<SSL_ca_path>) containing the certificateZ<>(s) of the trusted certificate authorities.

C<SSL_ca_path> can also be an array or a string containing multiple path, where the path are separated by the platform specific separator. This separator is C<;> on DOS, Windows, Netware, C<,> on VMS and C<:> for all the other systems. If multiple path are given at least one of these must be accessible.

You can also give a list of X509* certificate handles (like you get from L<Net::SSLeasy> or L<IO::Socket::SSL::Utils::PEM_xxx2cert>) with C<SSL_ca>. These will be added to the CA store before path and file and thus take precedence.

If neither SSL_ca, nor SSL_ca_file or SSL_ca_path are set it will use C<default_ca()> to determine the user-set or system defaults.

If you really don't want to set a CA set SSL_ca_file or SSL_ca_path to C<\undef> or SSL_ca to an empty list. (unfortunately C<"> is used by some modules using L<IO::Socket::SSL> when CA is not explicitly given).

=item SSL_client_ca | SSL_client_ca_file

If verify_mode is VERIFY_PEER on the server side these options can be used to set the list of acceptable CAs for the client. This way the client can select they required certificate from a list of certificates.

The value for these options is similar to C<SSL_ca> and C<SSL_ca_file>.

=item SSL_fingerprint

Sometimes you have a self-signed certificate or a certificate issued by an unknown CA and you really want to accept it, but don't want to disable verification at all. In this case you can specify the fingerprint of the certificate as C<'algo\$hex_fingerprint'>. C<algo> is a fingerprint algorithm supported by OpenSSL, e.g. 'sha1','sha256'... and C<hex_fingerprint> is the hexadecimal representation of the binary fingerprint. Any colons inside the hex string will be ignored.

If you want to use the fingerprint of the pubkey inside the certificate instead of the certificate use the syntax C<'algo\$pub\$hex_fingerprint'> instead.

To get the fingerprint of an established connection you can use C<get_fingerprint>.

It is also possible to skip C<algo\$>, i.e. only specify the fingerprint. In this case the likely algorithms will be automatically detected based on the length of the digest string.

You can specify a list of fingerprints in case you have several acceptable certificates.

If a fingerprint matches the topmost (i.e. leaf) certificate no additional validations can make the verification fail.

=item SSL_cert_file | SSL_cert | SSL_key_file | SSL_key

If you create a server you usually need to specify a server certificate which should be verified by the client. Same is true for client certificates, which should be verified by the server.

The certificate can be given as a file with `SSL_cert_file` or as an internal representation of an X509* object (like you get from `L<Net::SSL>` or `L<IO::Socket::SSL::Utils::PEM_xxx2cert>`) with `SSL_cert`.

If given as a file it will automatically detect the format.

Supported file formats are PEM, DER and PKCS#12, where PEM and PKCS#12 can contain the certificate and the chain to use, while DER can only contain a single certificate.

If given as a list of X509* please note, that the all the chain certificates (e.g. all except the first) will be "consumed" by openssl and will be freed if the SSL context gets destroyed - so you should never free them yourself. But the servers certificate (e.g. the first) will not be consumed by openssl and thus must be freed by the application.

For each certificate a key is need, which can either be given as a file with `SSL_key_file` or as an internal representation of an EVP_PKEY* object with `SSL_key` (like you get from `L<Net::SSL>` or `L<IO::Socket::SSL::Utils::PEM_xxx2key>`).

If a key was already given within the PKCS#12 file specified by `SSL_cert_file` it will ignore any `SSL_key` or `SSL_key_file`.

If no `SSL_key` or `SSL_key_file` was given it will try to use the PEM file given with `SSL_cert_file` again, maybe it contains the key too.

If your SSL server should be able to use different certificates on the same IP address, depending on the name given by SNI, you can use a hash reference instead of a file with `C<<hostname => cert_file>>`.

If your SSL server should be able to use both RSA and ECDSA certificates for the same domain/IP a similar hash reference like with SNI is given. The domain names used to specify the additional certificates should be `C<hostname%whatever>`, i.e. `C<hostname%ecc>` or similar. This needs at least OpenSSL 1.0.2. To let the server pick the certificate based on the clients cipher preference `C<SSL_honor_cipher_order>` should be set to false.

In case certs and keys are needed but not given it might fall back to builtin defaults, see "Defaults for Cert, Key and CA".

Examples:

```
SSL_cert_file => 'mycert.pem',
```

```
SSL_key_file => 'mykey.pem',
```

```
SSL_cert_file => {
```

```

"foo.example.org" => 'foo-cert.pem',
"foo.example.org%ecc" => 'foo-ecc-cert.pem',
"bar.example.org" => 'bar-cert.pem',
# used when nothing matches or client does not support SNI
" => 'default-cert.pem',
'%ecc' => 'default-ecc-cert.pem',
},
SSL_key_file => {
"foo.example.org" => 'foo-key.pem',
"foo.example.org%ecc" => 'foo-ecc-key.pem',
"bar.example.org" => 'bar-key.pem',
# used when nothing matches or client does not support SNI
" => 'default-key.pem',
'%ecc' => 'default-ecc-key.pem',
}
}

=item SSL_passwd_cb

```

If your private key is encrypted, you might not want the default password prompt from Net::SSL. This option takes a reference to a subroutine that should return the password required to decrypt your private key.

```
=item SSL_use_cert
```

If this is true, it forces IO::Socket::SSL to use a certificate and key, even if you are setting up an SSL client. If this is set to 0 (the default), then you will only need a certificate and key if you are setting up a server.

SSL_use_cert will implicitly be set if SSL_server is set.

For convenience it is also set if it was not given but a cert was given for use (SSL_cert_file or similar).

```
=item SSL_version
```

Sets the version of the SSL protocol used to transmit data.

'SSLv23' uses a handshake compatible with SSL2.0, SSL3.0 and TLS1.x, while 'SSLv2', 'SSLv3', 'TLSv1', 'TLSv1_1', 'TLSv1_2', or 'TLSv1_3' restrict handshake and protocol to the specified version.

All values are case-insensitive. Instead of 'TLSv1_1', 'TLSv1_2', and 'TLSv1_3' one can also use 'TLSv11', 'TLSv12', and 'TLSv13'. Support for 'TLSv1_1', 'TLSv1_2', and 'TLSv1_3' requires recent versions of Net::SSL and openssl.

Independent from the handshake format you can limit to set of accepted SSL versions by adding !version separated by '!':

The default SSL_version is 'SSLv23:!SSLv3:!SSLv2' which means, that the

handshake format is compatible to SSL2.0 and higher, but that the successful handshake is limited to TLS1.0 and higher, that is no SSL2.0 or SSL3.0 because both of these versions have serious security issues and should not be used anymore.

You can also use !TLSv1_1 and !TLSv1_2 to disable TLS versions 1.1 and 1.2 while still allowing TLS version 1.0.

Setting the version instead to 'TLSv1' might break interaction with older clients, which need and SSL2.0 compatible handshake. On the other side some clients just close the connection when they receive a TLS version 1.1 request. In this case setting the version to 'SSLv23:!SSLv2:!SSLv3:!TLSv1_1:!TLSv1_2' might help.

=item SSL_cipher_list

If this option is set the cipher list for the connection will be set to the given value, e.g. something like 'ALL:!LOW:!EXP:!aNULL'. Look into the OpenSSL documentation (L<<https://www.openssl.org/docs/manmaster/man1/openssl-ciphers.html#CIPHER-STRINGS>>) for more details.

Unless you fail to contact your peer because of no shared ciphers it is recommended to leave this option at the default setting. The default setting prefers ciphers with forward secrecy, disables anonymous authentication and disables known insecure ciphers like MD5, DES etc. This gives a grade A result at the tests of SSL Labs.

To use the less secure OpenSSL builtin default (whatever this is) set SSL_cipher_list to "".

In case different cipher lists are needed for different SNI hosts a hash can be given with the host as key and the cipher suite as value, similar to B<SSL_cert*>.

=item SSL_honor_cipher_order

If this option is true the cipher order the server specified is used instead of the order proposed by the client. This option defaults to true to make use of our secure cipher list setting.

=item SSL_dh_file

To create a server which provides forward secrecy you need to either give the DH parameters or (better, because faster) the ECDH curve. This setting cares about DH parameters.

To support non-elliptic Diffie-Hellman key exchange a suitable file needs to be given here or the SSL_dh should be used with an appropriate value. See dhparam command in openssl for more information.

If neither C<SSL_dh_file> nor C<SSL_dh> are set a builtin DH parameter with a length of 2048 bit is used to offer DH key exchange by default. If you don't want this (e.g. disable DH key exchange) explicitly set this or the C<SSL_dh> parameter to undef.

=item SSL_dh

Like SSL_dh_file, but instead of giving a file you use a preloaded or generated DH*.

=item SSL_ecdh_curve

To create a server which provides forward secrecy you need to either give the DH parameters or (better, because faster) the ECDH curve. This setting cares about the ECDH curve(s).

To support Elliptic Curve Diffie-Hellmann key exchange the OID or NID of at least one suitable curve needs to be provided here.

With OpenSSL 1.1.0+ this parameter defaults to C<auto>, which means that it lets OpenSSL pick the best settings. If support for CTX_set_ecdh_auto is implemented in Net::SSLey (needs at least version 1.86) it will use this to implement the same default. Otherwise it will default to C<prime256v1> (builtin of OpenSSL) in order to offer ECDH key exchange by default.

If setting groups or curves is supported by Net::SSLey (needs at least version 1.86) then multiple curves can be given here in the order of the preference, i.e. C<P-521:P-384:P-256>. When used at the client side this will include the supported curves as extension in the TLS handshake.

If you don't want to have ECDH key exchange this could be set to undef or set C<SSL_ciphers> to exclude all of these ciphers.

You can check if ECDH support is available by calling
C<< IO::Socket::SSL->can_ecdh >>.

=item SSL_verify_mode

This option sets the verification mode for the peer certificate.

You may combine SSL_VERIFY_PEER (verify_peer), SSL_VERIFY_FAIL_IF_NO_PEER_CERT (fail verification if no peer certificate exists; ignored for clients), SSL_VERIFY_CLIENT_ONCE (verify client once; ignored for clients). See OpenSSL man page for SSL_CTX_set_verify for more information.

The default is SSL_VERIFY_NONE for server (e.g. no check for client certificate) and SSL_VERIFY_PEER for client (check server certificate).

=item SSL_verify_callback

If you want to verify certificates yourself, you can pass a sub reference along with this parameter to do so. When the callback is called, it will be passed:

=over 4

=item 1.

a true/false value that indicates what OpenSSL thinks of the certificate,

=item 2.

a C-style memory address of the certificate store,

=item 3.

a string containing the certificate's issuer attributes and owner attributes,
and

=item 4.

a string containing any errors encountered (0 if no errors).

=item 5.

a C-style memory address of the peer's own certificate (convertible to PEM form with `Net::SSLLeay::PEM_get_string_X509()`).

=item 6.

The depth of the certificate in the chain. Depth 0 is the leaf certificate.

=back

The function should return 1 or 0, depending on whether it thinks the certificate is valid or invalid. The default is to let OpenSSL do all of the busy work.

The callback will be called for each element in the certificate chain.

See the OpenSSL documentation for `SSL_CTX_set_verify` for more information.

=item `SSL_verifycn_scheme`

The scheme is used to correctly verify the identity inside the certificate by using the hostname of the peer.

See the information about the verification schemes in `B<verify_hostname>`.

If you don't specify a scheme it will use 'default', but only complain loudly if the name verification fails instead of letting the whole certificate verification fail. **THIS WILL CHANGE**, e.g. it will let the certificate verification fail in the future if the hostname does not match the certificate
!!!! To override the name used in verification use `B<SSL_verifycn_name>`.

The scheme 'default' is a superset of the usual schemes, which will accept the hostname in common name and subjectAltName and allow wildcards everywhere. While using this scheme is way more secure than no name verification at all you better should use the scheme specific to your application protocol, e.g. 'http', 'ftp'...

If you are really sure, that you don't want to verify the identity using the hostname you can use 'none' as a scheme. In this case you'd better have alternative forms of verification, like a certificate fingerprint or do a manual verification later by calling `B<verify_hostname>` yourself.

=item `SSL_verifycn_publicsuffix`

This option is used to specify the behavior when checking wildcards certificates for public suffixes, e.g. no wildcard certificates for *.com or *.co.uk should be accepted, while *.example.com or *.example.co.uk is ok.

If not specified it will simply use the builtin default of `L<IO::Socket::SSL::PublicSuffix>`, you can create another object with `from_string` or `from_file` of this module.

To disable verification of public suffix set this option to `C<>`.

=item `SSL_verifycn_name`

Set the name which is used in verification of hostname. If `SSL_verifycn_scheme` is set and no `SSL_verifycn_name` is given it will try to use `SSL_hostname` or `PeerHost` and `PeerAddr` settings and fail if no name can be determined. If `SSL_verifycn_scheme` is not set it will use a default scheme and warn if it cannot determine a hostname, but it will not fail.

Using `PeerHost` or `PeerAddr` works only if you create the connection directly with `C<< IO::Socket::SSL->new >>`, if an `IO::Socket::INET` object is upgraded with `B<start_SSL>` the name has to be given in `B<SSL_verifycn_name>` or `B<SSL_hostname>`.

=item `SSL_check_crl`

If you want to verify that the peer certificate has not been revoked by the signing authority, set this value to true. OpenSSL will search for the CRL in your `SSL_ca_path`, or use the file specified by `SSL_crl_file`. See the `Net::SSL` documentation for more details. Note that this functionality appears to be broken with OpenSSL < v0.9.7b, so its use with lower versions will result in an error.

=item `SSL_crl_file`

If you want to specify the CRL file to be used, set this value to the

pathname to be used. This must be used in addition to setting `SSL_check_crl`.

=item `SSL_ocsp_mode`

Defines how certificate revocation is done using OCSF (Online Status Revocation Protocol). The default is to send a request for OCSF stapling to the server and if the server sends an OCSF response back the result will be used.

Any other OCSF checking needs to be done manually with `C<ocsp_resolver>`.

The following flags can be combined with `C<|>`:

=over 8

=item `SSL_OCSP_NO_STAPLE`

Don't ask for OCSF stapling.

This is the default if `SSL_verify_mode` is `VERIFY_NONE`.

=item `SSL_OCSP_TRY_STAPLE`

Try OCSF stapling, but don't complain if it gets no stapled response back.

This is the default if `SSL_verify_mode` is `VERIFY_PEER` (the default).

=item `SSL_OCSP_MUST_STAPLE`

Consider it a hard error, if the server does not send a stapled OCSF response back. Most servers currently send no stapled OCSF response back.

=item `SSL_OCSP_FAIL_HARD`

Fail hard on response errors, default is to fail soft like the browsers do.

Soft errors mean, that the OCSF response is not usable, e.g. no response, error response, no valid signature etc.

Certificate revocations inside a verified response are considered hard errors in any case.

Soft errors inside a stapled response are never considered hard, e.g. it is expected that in this case an OCSF request will be send to the responsible OCSF responder.

=item `SSL_OCSP_FULL_CHAIN`

This will set up the `C<ocsp_resolver>` so that all certificates from the peer chain will be checked, otherwise only the leaf certificate will be checked against revocation.

=back

=item SSL_ocsp_staple_callback

If this callback is defined, it will be called with the SSL object and the OCSP response handle obtained from the peer, e.g. C<<\$cb->(\$ssl,\$resp)>>.

If the peer did not provide a stapled OCSP response the function will be called with C<\$resp=undef>.

Because the OCSP response handle is no longer valid after leaving this function it should not be copied or freed. If access to the response is necessary after leaving this function it can be serialized with C<Net::SSLay::i2d_OCSP_RESPONSE>.

If no such callback is provided, it will use the default one, which verifies the response and uses it to check if the certificate(s) of the connection got revoked.

=item SSL_ocsp_cache

With this option a cache can be given for caching OCSP responses, which could be shared between different SSL contexts. If not given a cache specific to the SSL context only will be used.

You can either create a new cache with

C<< IO::Socket::SSL::OCSP_Cache->new([size]) >> or implement your own cache, which needs to have methods C<put(\$key,%entry)> and C<get(\$key)> (returning C<|%entry>) where entry is the hash representation of the OCSP response with fields like C<nextUpdate>. The default implementation of the cache will consider responses valid as long as C<nextUpdate> is less than the current time.

=item SSL_reuse_ctx

If you have already set the above options for a previous instance of IO::Socket::SSL, then you can reuse the SSL context of that instance by passing it as the value for the SSL_reuse_ctx parameter. You may also create a new instance of the IO::Socket::SSL::SSL_Context class, using any context options that you desire without specifying connection options, and pass that here instead.

If you use this option, all other context-related options that you pass in the same call to new() will be ignored unless the context supplied was invalid. Note that, contrary to versions of IO::Socket::SSL below v0.90, a global SSL context will not be implicitly used unless you use the set_default_context() function.

=item SSL_create_ctx_callback

With this callback you can make individual settings to the context after it

got created and the default setup was done.

The callback will be called with the CTX object from Net::SSLay as the single argument.

Example for limiting the server session cache size:

```
SSL_create_ctx_callback => sub {  
    my $ctx = shift;  
    Net::SSLay::CTX_sess_set_cache_size($ctx,128);  
}
```

=item SSL_session_cache_size

If you make repeated connections to the same host/port and the SSL renegotiation time is an issue, you can turn on client-side session caching with this option by specifying a positive cache size. For successive connections, pass the SSL_reuse_ctx option to the new() calls (or use set_default_context()) to make use of the cached sessions. The session cache size refers to the number of unique host/port pairs that can be stored at one time; the oldest sessions in the cache will be removed if new ones are added.

This option does not effect the session cache a server has for it's clients, e.g. it does not affect SSL objects with SSL_server set.

Note that session caching with TLS 1.3 needs at least Net::SSLay 1.86.

=item SSL_session_cache

Specifies session cache object which should be used instead of creating a new. Overrides SSL_session_cache_size.

This option is useful if you want to reuse the cache, but not the rest of the context.

A session cache object can be created using

```
C<< IO::Socket::SSL::Session_Cache->new( cachesize ) >>.
```

Use set_default_session_cache() to set a global cache object.

=item SSL_session_key

Specifies a key to use for lookups and inserts into client-side session cache.

Per default ip:port of destination will be used, but sometimes you want to share the same session over multiple ports on the same server (like with FTPS).

=item SSL_session_id_context

This gives an id for the servers session cache. It's necessary if you want clients to connect with a client certificate. If not given but SSL_verify_mode

specifies the need for client certificate a context unique id will be picked.

=item SSL_error_trap

When using the `accept()` or `connect()` methods, it may be the case that the actual socket connection works but the SSL negotiation fails, as in the case of an HTTP client connecting to an HTTPS server. Passing a subroutine ref attached to this parameter allows you to gain control of the orphaned socket instead of having it be closed forcibly.

The subroutine, if called, will be passed two parameters:
a reference to the socket on which the SSL negotiation failed and the full text of the error message.

=item SSL_npn_protocols

If used on the server side it specifies list of protocols advertised by SSL server as an array ref, e.g. [`'spdy/2'`, `'http1.1'`].

On the client side it specifies the protocols offered by the client for NPN as an array ref.

See also method `C<next_proto_negotiated>`.

Next Protocol Negotiation (NPN) is available with `Net::SSL` 1.46+ and `openssl-1.0.1+`. NPN is unavailable in TLSv1.3 protocol.

To check support you might call `C<< IO::Socket::SSL->can_npn() >>`.

If you use this option with an unsupported `Net::SSL`/`OpenSSL` it will throw an error.

=item SSL_alpn_protocols

If used on the server side it specifies list of protocols supported by the SSL server as an array ref, e.g. [`'http/2.0'`, `'spdy/3.1'`, `'http/1.1'`].

On the client side it specifies the protocols advertised by the client for ALPN as an array ref.

See also method `C<alpn_selected>`.

Application-Layer Protocol Negotiation (ALPN) is available with `Net::SSL` 1.56+ and `openssl-1.0.2+`. More details about the extension are in RFC7301. To check support you might call `C<< IO::Socket::SSL->can_alpn() >>`. If you use this option with an unsupported `Net::SSL`/`OpenSSL` it will throw an error.

Note that some client implementations may encounter problems if both NPN and ALPN are specified. Since ALPN is intended as a replacement for NPN, try providing ALPN protocols then fall back to NPN if that fails.

=item SSL_ticket_keycb => [`$sub,$data`] | `$sub`

This is a callback used for stateless session reuse (Session Tickets, RFC 5077).

This callback will be called as C<< \$sub->(\$data,[\$key_name])>> where C<\$data> is the argument given to SSL_ticket_keycb (or undef) and C<\$key_name> depends on the mode:

=over 8

=item encrypt ticket

If a ticket needs to be encrypted the callback will be called without C<\$key_name>. In this case it should return C<(\$current_key,\$current_key_name)> where C<\$current_key> is the current key (32 byte random data) and C<\$current_key_name> the name associated with this key (exactly 16 byte). This C<\$current_key_name> will be incorporated into the ticket.

=item decrypt ticket

If a ticket needs to be decrypted the callback will be called with C<\$key_name> as found in the ticket. It should return C<(\$key,\$current_key_name)> where C<\$key> is the key associated with the given C<\$key_name> and C<\$current_key_name> the name associated with the currently active key. If C<\$current_key_name> is different from the given C<\$key_name> the callback will be called again to re-encrypt the ticket with the currently active key.

If no key can be found which matches the given C<\$key_name> then this function should return nothing (empty list).

This mechanism should be used to limit the life time for each key encrypting the ticket. Compromise of a ticket encryption key might lead to decryption of SSL sessions which used session tickets protected by this key.

=back

Example:

```
Net::SSLeay::RAND_bytes(my $oldkey,32);
Net::SSLeay::RAND_bytes(my $newkey,32);
my $oldkey_name = pack("a16",'oldsecret');
my $newkey_name = pack("a16",'newsecret');

my @keys = (
  [ $newkey_name, $newkey ], # current active key
  [ $oldkey_name, $oldkey ], # already expired
);

my $keycb = [ sub {
  my ($mykeys,$name) = @_;

  # return (current_key, current_key_name) if no name given
```

```

return ($mykeys->[0][1],$mykeys->[0][0]) if ! $name;

# return (matching_key, current_key_name) if we find a key matching
# the given name
for(my $i = 0; $i<@$mykeys; $i++) {
next if $name ne $mykeys->[$i][0];
return ($mykeys->[$i][1],$mykeys->[0][0]);
}

# no matching key found
return;
},\@keys ];

my $srv = IO::Socket::SSL->new(..., SSL_ticket_keycb => $keycb);

```

=item SSL_mode_release_buffers 1|0

This enables or disables the SSL_MODE_RELEASE_BUFFERS option on the SSL object. With this option the read buffer will be released after each SSL_read but will need to be reallocated for each new SSL_read. If memory usage is a concern this might save lots of memory in the mean time though, about 34k per idle SSL connection according to the documentation in SSL_CTX_set_mode(3ssl).

=back

=item B<accept>

This behaves similar to the accept function of the underlying socket class, but additionally does the initial SSL handshake. But because the underlying socket class does return a blocking file handle even when accept is called on a non-blocking socket, the SSL handshake on the new file object will be done in a blocking way. Please see the section about non-blocking I/O for details. If you don't like this behavior you should do accept on the TCP socket and then upgrade it with C<start_SSL> later.

=item B<connect(...)>

This behaves similar to the connect function but also does an SSL handshake. Because you cannot give SSL specific arguments to this function, you should better either use C<new> to create a connect SSL socket or C<start_SSL> to upgrade an established TCP socket to SSL.

=item B<close(...)>

Contrary to a close for a simple INET socket a close in SSL also mandates a proper shutdown of the SSL part. This is done by sending a close notify message by both peers.

A naive implementation would thus wait until it receives the close notify message from the peer - which conflicts with the commonly expected semantic that a close will not block. The default behavior is thus to only send a close notify but not wait for the close notify of the peer. If this is required C<SSL_fast_shutdown> need to be explicitly set to false.

There are also cases where a SSL shutdown should not be done at all. This is true for example when forking to let a child deal with the socket and closing the socket in the parent process. A naive explicit C<close> or an implicit close when destroying the socket in the parent would send a close notify to the peer which would make the SSL socket in the client process unusable. In this case an explicit C<close> with C<SSL_no_shutdown> set to true should be done in the parent process.

For more details and other arguments see C<stop_SSL> which gets called from C<close> to shutdown the SSL state of the socket.

=item B<sysread(BUF, LEN, [OFFSET])>

This function behaves from the outside the same as B<sysread> in other L<IO::Socket> objects, e.g. it returns at most LEN bytes of data.

But in reality it reads not only LEN bytes from the underlying socket, but at a single SSL frame. It then returns up to LEN bytes it decrypted from this SSL frame. If the frame contained more data than requested it will return only LEN data, buffer the rest and return it on further read calls.

This means, that it might be possible to read data, even if the underlying socket is not readable, so using poll or select might not be sufficient.

sysread will only return data from a single SSL frame, e.g. either the pending data from the already buffered frame or it will read a frame from the underlying socket and return the decrypted data. It will not return data spanning several SSL frames in a single call.

Also, calls to sysread might fail, because it must first finish an SSL handshake.

To understand these behaviors is essential, if you write applications which use event loops and/or non-blocking sockets. Please read the specific sections in this documentation.

=item B<syswrite(BUF, [LEN, [OFFSET]])>

This functions behaves from the outside the same as B<syswrite> in other L<IO::Socket> objects, e.g. it will write at most LEN bytes to the socket, but there is no guarantee, that all LEN bytes are written. It will return the number of bytes written.

Because it basically just calls SSL_write from OpenSSL syswrite will write at most a single SSL frame. This means, that no more than 16.384 bytes, which is

the maximum size of an SSL frame, will be written at once.

For non-blocking sockets SSL specific behavior applies.
Please read the specific section in this documentation.

=item B<peek(BUF, LEN, [OFFSET])>

This function has exactly the same syntax as B<sysread>, and performs nearly the same task but will not advance the read position so that successive calls to peek() with the same arguments will return the same results. This function requires OpenSSL 0.9.6a or later to work.

=item B<pending(>

This function gives you the number of bytes available without reading from the underlying socket object. This function is essential if you work with event loops, please see the section about polling SSL sockets.

=item B<get_fingerprint([algo,certificate,pubkey])>

This methods returns the fingerprint of the given certificate in the form C<algo\$digest_hex>, where C<algo> is the used algorithm, default 'sha256'.
If no certificate is given the peer certificate of the connection is used.
If C<pubkey> is true it will not return the fingerprint of the certificate but instead the fingerprint of the pubkey inside the certificate as C<algo\$pub\$digest_hex>.

=item B<get_fingerprint_bin([algo,certificate,pubkey])>

This methods returns the binary fingerprint of the given certificate by using the algorithm C<algo>, default 'sha256'.
If no certificate is given the peer certificate of the connection is used.
If C<pubkey> is true it will not return the fingerprint of the certificate but instead the fingerprint of the pubkey inside the certificate.

=item B<get_cipher(>

Returns the string form of the cipher that the IO::Socket::SSL object is using.

=item B<get_sslversion(>

Returns the string representation of the SSL version of an established connection.

=item B<get_sslversion_int(>

Returns the integer representation of the SSL version of an established connection.

=item B<get_session_reused()>

This returns true if the session got reused and false otherwise. Note that with a reused session no certificates are send within the handshake and no ciphers are offered and thus functions which rely on this might not work.

=item B<dump_peer_certificate()>

Returns a parsable string with select fields from the peer SSL certificate. This method directly returns the result of the dump_peer_certificate() method of Net::SSLay.

=item B<peer_certificate(\$field;[\$refresh])>

If a peer certificate exists, this function can retrieve values from it. If no field is given the internal representation of certificate from Net::SSLay is returned. If refresh is true it will not used a cached version, but check again in case the certificate of the connection has changed due to renegotiation.

The following fields can be queried:

=over 8

=item authority (alias issuer)

The certificate authority which signed the certificate.

=item owner (alias subject)

The owner of the certificate.

=item commonName (alias cn) - only for Net::SSLay version >=1.30

The common name, usually the server name for SSL certificates.

=item subjectAltNames - only for Net::SSLay version >=1.33

Alternative names for the subject, usually different names for the same server, like example.org, example.com, *.example.com.

It returns a list of (typ,value) with typ GEN_DNS, GEN_IPADD etc (these constants are exported from IO::Socket::SSL). See Net::SSLay::X509_get_subjectAltNames.

=back

=item B<sock_certificate(\$field)>

This is similar to C<peer_certificate> but will return the sites own certificate. The same arguments for B<\$field> can be used.

If no B<\$field> is given the certificate handle from the underlying OpenSSL will be returned. This handle will only be valid as long as the SSL connection exists and if used afterwards it might result in strange crashes of the application.

=item B<peer_certificates>

This returns all the certificates send by the peer, e.g. first the peers own certificate and then the rest of the chain. You might use B<CERT_asHash> from L<IO::Socket::SSL::Utils> to inspect each of the certificates.

This function depends on a version of Net::SSLeay >= 1.58 .

=item B<get_servername>

This gives the name requested by the client if Server Name Indication (SNI) was used.

=item B<verify_hostname(\$hostname,\$scheme,\$publicsuffix)>

This verifies the given hostname against the peer certificate using the given scheme. Hostname is usually what you specify within the PeerAddr. See the C<SSL_verifycn_publicsuffix> parameter for an explanation of suffix checking and for the possible values.

Verification of hostname against a certificate is different between various applications and RFCs. Some scheme allow wildcards for hostnames, some only in subjectAltNames, and even their different wildcard schemes are possible. RFC 6125 provides a good overview.

To ease the verification the following schemes are predefined (both protocol name and rfcXXXX name can be used):

=over 8

=item rfc2818, xmpp (rfc3920), ftp (rfc4217)

Extended wildcards in subjectAltNames and common name are possible, e.g. *.example.org or even www*.example.org. The common name will be only checked if no DNS names are given in subjectAltNames.

=item http (alias www)

While name checking is defined in rfc2818 the current browsers usually accept also an IP address (w/o wildcards) within the common name as long as no

subjectAltNames are defined. Thus this is rfc2818 extended with this feature.

```
=item smtp (rfc2595), imap, pop3, acap (rfc4642), netconf (rfc5538), syslog (rfc5425), snmp (rfc5953)
```

Simple wildcards in subjectAltNames are possible, e.g. *.example.org matches www.example.org but not lala.www.example.org. If nothing from subjectAltNames match it checks against the common name, where wildcards are also allowed to match the full leftmost label.

```
=item ldap (rfc4513)
```

Simple wildcards are allowed in subjectAltNames, but not in common name. Common name will be checked even if subjectAltNames exist.

```
=item sip (rfc5922)
```

No wildcards are allowed and common name is checked even if subjectAltNames exist.

```
=item gist (rfc5971)
```

Simple wildcards are allowed in subjectAltNames and common name, but common name will only be checked if there are no DNS names in subjectAltNames.

```
=item default
```

This is a superset of all the rules and is automatically used if no scheme is given but a hostname (instead of IP) is known.

Extended wildcards are allowed in subjectAltNames and common name and common name is checked always.

```
=item none
```

No verification will be done.

Actually it does not make any sense to call verify_hostname in this case.

```
=back
```

The scheme can be given either by specifying the name for one of the above predefined schemes, or by using a hash which can have the following keys and values:

```
=over 8
```

```
=item check_cn: 0|'always'|'when_only'
```

Determines if the common name gets checked. If 'always' it will always be checked (like in ldap), if 'when_only' it will only be checked if no names are

given in subjectAltNames (like in http), for any other values the common name will not be checked.

```
=item wildcards_in_alt: 0|'full_label'|'anywhere'
```

Determines if and where wildcards in subjectAltNames are possible. If 'full_label' only cases like *.example.org will be possible (like in ldap), for 'anywhere' www*.example.org is possible too (like http), dangerous things like but www*.org or even '*' will not be allowed. For compatibility with older versions 'leftmost' can be given instead of 'full_label'.

```
=item wildcards_in_cn: 0|'full_label'|'anywhere'
```

Similar to wildcards_in_alt, but checks the common name. There is no predefined scheme which allows wildcards in common names.

```
=item ip_in_cn: 0|1|4|6
```

Determines if an IP address is allowed in the common name (no wildcards are allowed). If set to 4 or 6 it only allows IPv4 or IPv6 addresses, any other true value allows both.

```
=item callback: \&coderef
```

If you give a subroutine for verification it will be called with the arguments (\$hostname,\$commonName,@subjectAltNames), where hostname is the name given for verification, commonName is the result from peer_certificate('cn') and subjectAltNames is the result from peer_certificate('subjectAltNames').

All other arguments for the verification scheme will be ignored in this case.

```
=back
```

```
=item B<next_proto_negotiated(>>
```

This method returns the name of negotiated protocol - e.g. 'http/1.1'. It works for both client and server side of SSL connection.

NPN support is available with Net::SSLeay 1.46+ and openssl-1.0.1+.

To check support you might call C<< IO::Socket::SSL->can_npn() >>.

```
=item B<alpn_selected(>>
```

Returns the protocol negotiated via ALPN as a string, e.g. 'http/1.1', 'http/2.0' or 'spdy/3.1'.

ALPN support is available with Net::SSLeay 1.56+ and openssl-1.0.2+.

To check support, use `C<< IO::Socket::SSL->can_alpn() >>`.

=item B<errstr()>

Returns the last error (in string form) that occurred. If you do not have a real object to perform this method on, call `IO::Socket::SSL::errstr()` instead.

For read and write errors on non-blocking sockets, this method may include the string `C<SSL wants a read first!>` or `C<SSL wants a write first!>` meaning that the other side is expecting to read from or write to the socket and wants to be satisfied before you get to do anything. But with version 0.98 you are better comparing the global exported variable `SSL_ERROR` against the exported symbols `SSL_WANT_READ` and `SSL_WANT_WRITE`.

=item B<opened()>

This returns false if the socket could not be opened, 1 if the socket could be opened and the SSL handshake was successful done and -1 if the underlying `IO::Handle` is open, but the SSL handshake failed.

=item B<< IO::Socket::SSL->start_SSL(\$socket, ...) >>

This will convert a glob reference or a socket that you provide to an `IO::Socket::SSL` object. You may also pass parameters to specify context or connection options as with a call to `new()`. If you are using this function on an `accept()`ed socket, you must set the parameter "SSL_server" to 1, i.e. `IO::Socket::SSL->start_SSL($socket, SSL_server => 1)`. If you have a class that inherits from `IO::Socket::SSL` and you want the `$socket` to be blessed into your own class instead, use `MyClass->start_SSL($socket)` to achieve the desired effect.

Note that if `start_SSL()` fails in SSL negotiation, `$socket` will remain blessed in its original class. For non-blocking sockets you better just upgrade the socket to `IO::Socket::SSL` and call `accept_SSL` or `connect_SSL` and the upgraded object. To just upgrade the socket set `B<SSL_startHandshake>` explicitly to 0. If you call `start_SSL` w/o this parameter it will revert to blocking behavior for `accept_SSL` and `connect_SSL`.

If given the parameter "Timeout" it will stop if after the timeout no SSL connection was established. This parameter is only used for blocking sockets, if it is not given the default Timeout from the underlying `IO::Socket` will be used.

=item B<stop_SSL(...)>

This is the opposite of `start_SSL()`, `connect_SSL()` and `accept_SSL()`, e.g. it will shutdown the SSL connection and return to the class before `start_SSL()`. It gets the same arguments as `close()`, in fact `close()` calls `stop_SSL()` (but

without downgrading the class).

Will return true if it succeeded and undef if failed. This might be the case for non-blocking sockets. In this case \$! is set to EWOULDBLOCK and the ssl error to SSL_WANT_READ or SSL_WANT_WRITE. In this case the call should be retried again with the same arguments once the socket is ready.

For calling from C<stop_SSL> C<SSL_fast_shutdown> default to false, e.g. it waits for the close_notify of the peer. This is necessary in case you want to downgrade the socket and continue to use it as a plain socket.

After stop_SSL the socket can again be used to exchange plain data.

=item B<connect_SSL>, B<accept_SSL>

These functions should be used to do the relevant handshake, if the socket got created with C<new> or upgraded with C<start_SSL> and C<SSL_startHandshake> was set to false.

They will return undef until the handshake succeeded or an error got thrown.

As long as the function returns undef and \$! is set to EWOULDBLOCK one could retry the call after the socket got readable (SSL_WANT_READ) or writeable (SSL_WANT_WRITE).

=item B<ocsp_resolver>

This will create an OCSP resolver object, which can be used to create OCSP requests for the certificates of the SSL connection. Which certificates are verified depends on the setting of C<SSL_ocsp_mode>: by default only the leaf certificate will be checked, but with SSL_OCSP_FULL_CHAIN all chain certificates will be checked.

Because to create an OCSP request the certificate and its issuer certificate need to be known it is not possible to check certificates when the trust chain is incomplete or if the certificate is self-signed.

The OCSP resolver gets created by calling C<< \$ssl->ocsp_resolver >> and provides the following methods:

=over 8

=item hard_error

This returns the hard error when checking the OCSP response.

Hard errors are certificate revocations. With the C<SSL_ocsp_mode> of SSL_OCSP_FAIL_HARD any soft error (e.g. failures to get signed information about the certificates) will be considered a hard error too.

The OCSP resolving will stop on the first hard error.

The method will return undef as long as no hard errors occurred and still requests to be resolved. If all requests got resolved and no hard errors occurred the method will return C<">.

=item soft_error

This returns the soft error(s) which occurred when asking the OCSP responders.

=item requests

This will return a hash consisting of C<(url,request)>-tuples, e.g. which contain the OCSP request string and the URL where it should be sent too. The usual way to send such a request is as HTTP POST request with a content-type of C<application/ocsp-request> or as a GET request with the base64 and url-encoded request is added to the path of the URL.

After you've handled all these requests and added the response with C<add_response> you should better call this method again to make sure, that no more requests are outstanding. IO::Socket::SSL will combine multiple OCSP requests for the same server inside a single request, but some server don't give a response to all these requests, so that one has to ask again with the remaining requests.

=item add_response(\$uri,\$response)

This method takes the HTTP body of the response which got received when sending the OCSP request to C<\$uri>. If no response was received or an error occurred one should either retry or consider C<\$response> as empty which will trigger a soft error.

The method returns the current value of C<hard_error>, e.g. a defined value when no more requests need to be done.

=item resolve_blocking(%args)

This combines C<requests> and C<add_response> which L<HTTP::Tiny> to do all necessary requests in a blocking way. C<%args> will be given to L<HTTP::Tiny> so that you can put proxy settings etc here. L<HTTP::Tiny> will be called with C<verify_ssl> of false, because the OCSP responses have their own signatures so no extra SSL verification is needed.

If you don't want to use blocking requests you need to roll your own user agent with C<requests> and C<add_response>.

=back

=item B<< IO::Socket::SSL->new_from_fd(\$fd, [mode], %sslargs) >>

This will convert a socket identified via a file descriptor into an SSL socket. Note that the argument list does not include a "MODE" argument; if you supply one, it will be thoughtfully ignored (for compatibility with IO::Socket::INET). Instead, a mode of '+' is assumed, and the file descriptor passed must be able to handle such I/O because the initial SSL handshake requires bidirectional communication.

Internally the given \$fd will be upgraded to a socket object using the C<new_from_fd> method of the super class (L<IO::Socket::INET> or similar) and then C<start_SSL> will be called using the given C<%sslargs>. If C<\$fd> is already an IO::Socket object you should better call C<start_SSL> directly.

```
=item B<IO::Socket::SSL::default_ca([ path|dir| SSL_ca_file => ..., SSL_ca_path => ... ])>
```

Determines or sets the default CA path.

If existing path or dir or a hash is given it will set the default CA path to this value and never try to detect it automatically.

If C<undef> is given it will forget any stored defaults and continue with detection of system defaults.

If no arguments are given it will start detection of system defaults, unless it has already stored user-set or previously detected values.

The detection of system defaults works similar to OpenSSL, e.g. it will check the directory specified in environment variable SSL_CERT_DIR or the path OPENSSLDIR/certs (SSLCERTS: on VMS) and the file specified in environment variable SSL_CERT_FILE or the path OPENSSLDIR/cert.pem (SSLCERTS:cert.pem on VMS). Contrary to OpenSSL it will check if the SSL_ca_path contains PEM files with the hash as file name and if the SSL_ca_file looks like PEM.

If no usable system default can be found it will try to load and use L<Mozilla::CA> and if not available give up detection.

The result of the detection will be saved to speed up future calls.

The function returns the saved default CA as hash with SSL_ca_file and SSL_ca_path.

```
=item B<IO::Socket::SSL::set_default_context(...)>
```

You may use this to make IO::Socket::SSL automatically re-use a given context (unless specifically overridden in a call to new()).

It accepts one argument, which should be either an IO::Socket::SSL object or an IO::Socket::SSL::SSL_Context object.

See the SSL_reuse_ctx option of new() for more details.

Note that this sets the default context globally, so use with caution (esp. in mod_perl scripts).

```
=item B<IO::Socket::SSL::set_default_session_cache(...)>
```

You may use this to make IO::Socket::SSL automatically re-use a given session cache (unless specifically overridden in a call to new()).

It accepts one argument, which should be an IO::Socket::SSL::Session_Cache object or similar (e.g. something which implements get_session, add_session and del_session like IO::Socket::SSL::Session_Cache does).

See the SSL_session_cache option of new() for more details.

Note that this sets the default cache globally, so use with caution.

```
=item B<IO::Socket::SSL::set_defaults(%args)>
```

With this function one can set defaults for all SSL_* parameter used for creation of the context, like the SSL_verify* parameter. Any SSL_* parameter can be given or the following short versions:

```
=over 8
```

```
=item mode - SSL_verify_mode
```

```
=item callback - SSL_verify_callback
```

```
=item scheme - SSL_verifycn_scheme
```

```
=item name - SSL_verifycn_name
```

```
=back
```

```
=item B<IO::Socket::SSL::set_client_defaults(%args)>
```

Similar to C<set_defaults>, but only sets the defaults for client mode.

```
=item B<IO::Socket::SSL::set_server_defaults(%args)>
```

Similar to C<set_defaults>, but only sets the defaults for server mode.

```
=item B<IO::Socket::SSL::set_args_filter_hack(\&code|'use_defaults')>
```

Sometimes one has to use code which uses unwanted or invalid arguments for SSL, typically disabling SSL verification or setting wrong ciphers or SSL versions.

With this hack it is possible to override these settings and restore sanity.

Example:

```
IO::Socket::SSL::set_args_filter_hack( sub {  
  my ($is_server,$args) = @_;  
  if ( ! $is_server ) {  
    # client settings - enable verification with default CA  
    # and fallback hostname verification etc  
    delete @{$args}{qw(  

```



```

SSL_verify_mode
SSL_ca_file
SSL_ca_path
SSL_verifycn_scheme
SSL_version
    });
    # and add some fingerprints for known certs which are signed by
    # unknown CAs or are self-signed
    $args->{SSL_fingerprint} = ...
}
});

```

With the short setting `C<set_args_filter_hack('use_defaults')>` it will prefer the default settings in all cases. These default settings can be modified with `C<set_defaults>`, `C<set_client_defaults>` and `C<set_server_defaults>`.

=back

The following methods are unsupported (not to mention futile!) and `IO::Socket::SSL` will emit a large `CROAK()` if you are silly enough to use them:

=over 4

=item truncate

=item stat

=item ungetc

=item setbuf

=item setvbuf

=item fdopen

=item send/recv

Note that `send()` and `recv()` cannot be reliably trapped by a tied filehandle (such as that used by `IO::Socket::SSL`) and so may send unencrypted data over the socket. Object-oriented calls to these functions will fail, telling you to use the `print/printf/syswrite` and `read/sysread` families instead.

=back

=head1 DEPRECATIONS

The following functions are deprecated and are only retained for compatibility:

=over 2

=item context_init()

use the SSL_reuse_ctx option if you want to re-use a context

=item socketToSSL() and socket_to_SSL()

use IO::Socket::SSL->start_SSL() instead

=item kill_socket()

use close() instead

=item get_peer_certificate()

use the peer_certificate() function instead.

Used to return X509_Certificate with methods subject_name and issuer_name.

Now simply returns \$self which has these methods (although deprecated).

=item issuer_name()

use peer_certificate('issuer') instead

=item subject_name()

use peer_certificate('subject') instead

=back

=head1 EXAMPLES

See the 'example' directory, the tests in 't' and also the tools in 'util'.

=head1 BUGS

If you use IO::Socket::SSL together with threads you should load it (e.g. use or require) inside the main thread before creating any other threads which use it. This way it is much faster because it will be initialized only once. Also there are reports that it might crash the other way.

Creating an IO::Socket::SSL object in one thread and closing it in another thread will not work.

IO::Socket::SSL does not work together with Storable::fd_retrieve/fd_store.

See BUGS file for more information and how to work around the problem.

Non-blocking and timeouts (which are based on non-blocking) are not supported on Win32, because the underlying IO::Socket::INET does not support non-blocking on this platform.

If you have a server and it looks like you have a memory leak you might check the size of your session cache. Default for Net::SSLeay seems to be 20480, see the example for SSL_create_ctx_callback for how to limit it.

TLS 1.3 support regarding session reuse is incomplete.

=head1 SEE ALSO

IO::Socket::INET, IO::Socket::INET6, IO::Socket::IP, Net::SSLeay.

=head1 THANKS

Many thanks to all who added patches or reported bugs or helped IO::Socket::SSL another way. Please keep reporting bugs and help with patches, even if they just fix the documentation.

Special thanks to the team of Net::SSLeay for the good cooperation.

=head1 AUTHORS

Steffen Ullrich, <sullr at cpan.org> is the current maintainer.

Peter Behrooz, <behrooz at fas.harvard.edu> (Note the lack of an "i" at the end of "behrooz")

Marko Asplund, <marko.asplund at kronodoc.fi>, was the original author of IO::Socket::SSL.

Patches incorporated from various people, see file Changes.

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The original versions of this module are Copyright (C) 1999-2002 Marko Asplund.

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Found in path(s):

* /opt/cola/permits/1146929071_1616836857.87/0/libio-socket-ssl-perl-2-067-orig-tar-gz/IO-Socket-SSL-

2.067/lib/IO/Socket/SSL.pod

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Found in path(s):

* /opt/cola/permits/1146929071_1616836857.87/0/libio-socket-ssl-perl-2-067-orig-tar-gz/IO-Socket-SSL-2.067/lib/IO/Socket/SSL/PublicSuffix.pm

1.99 python-requests 2.22.0 2ubuntu1

1.99.1 Available under license :

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1.100 cron 3.0pl1 136ubuntu1

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* Paul Vixie <paul@vix.com> uunet!decwrl!vixie!paul

*/

\$Id: INSTALL,v 2.5 1994/01/15 20:43:43 vixie Exp \$

Read the comments at the top of the Makefile, then edit the area marked 'configurable stuff'.

Edit config.h. The stuff I expect you to change is down a bit from the top of the file, but it's clearly marked. Also look at pathnames.h.

You don't have to create the /var/cron or /var/cron/tabs directories, since both the daemon and the `crontab' program will do this the first time they run if they don't exist. You do need to have a /var, though -- just "mkdir /var" if you don't have one, or you can "mkdir /usr/var; ln -s /usr/var /var" if you expect your /var to have a lot of stuff in it.

You will also need /usr/local/etc and /usr/local/bin directories unless you change the Makefile. These will have to be created by hand, but if you are a long-time Usenet user you probably have them already. /usr/local/man is where I keep my man pages, but I have the source for `man' and you probably do not. Therefore you may have to put the man pages into /usr/man/man1, which will be hard since there will be name collisions. (Note that the man command was originally written by Bill Joy before he left Berkeley, and it contains no AT&T code, so it is in UUNET's archive of freely-distributable BSD code.)

LINUX note: /usr/include/paths.h on some linux systems shows _PATH_SENDMAIL to be /usr/bin/sendmail even though sendmail is installed in /usr/lib. you should check this out.

say:

```
make all
```

su and say:

```
make install
```

Note that if I can get you to "su and say" something just by asking, you have a very serious security problem on your system and you should look into it.

Edit your /usr/lib/crontab file into little pieces -- see the CONVERSION file for help on this.

Use the `crontab' command to install all the little pieces you just created. Some examples (see below before trying any of these!)

```
crontab -u uucp -r /usr/lib/uucp/crontab.src
crontab -u news -r /usr/lib/news/crontab.src
crontab -u root -r /usr/adm/crontab.src
```

Notes on above examples: (1) the .src files are copied at the time the command is issued; changing the source files later will have no effect until they are reinstalled with another `crontab -r` command. (2) The crontab command will affect the crontab of the person using the command unless `-u USER` is given; `-u` only works for root. When using most `su` commands under most BSD's, `crontab` will still think of you as yourself even though you may think of yourself as root -- so use `-u` liberally. (3) the `-r` option stands for `replace`; check the man page for crontab(1) for other possibilities.

Kill your existing cron daemon -- do `ps aux` and look for /etc/cron.

Edit your /etc/rc or /etc/rc.local, looking for the line that starts up /etc/cron. Comment it out and add a line to start the new cron daemon -- usually /usr/local/etc/cron, unless you changed it in the Makefile.

Start up this cron daemon yourself as root. Just type /usr/local/etc/cron (or whatever); no '&' is needed since the daemon forks itself and the process you executed returns immediately.

ATT notes: for those people unfortunate enough to be stuck on a AT&T UNIX, you will need the public-domain "libndir", found in the B News source and in any comp.sources.unix archive. You will also need to hack the code some.

Found in path(s):

```
* /opt/cola/permits/1223164981_1635867556.65/0/cron-3-0p11-orig-tar-bz2/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/INSTALL
```

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# * anyone resulting from the use of this software rests entirely with the
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# *
# * Send bug reports, bug fixes, enhancements, requests, flames, etc., and
# * I'll try to keep a version up to date. I can be reached as follows:
# * Paul Vixie <paul@vix.com> uunet!decwrl!vixie!paul
# */
```

Vixie Cron V3.0

December 27, 1993

[V2.2 was some time in 1992]

[V2.1 was May 29, 1991]

[V2.0 was July 5, 1990]

[V2.0-beta was December 9, 1988]

[V1.0 was May 6, 1987]

Paul Vixie

This is a version of 'cron' that is known to run on BSD 4.[23] systems. It is functionally based on the SysV cron, which means that each user can have their own crontab file (all crontab files are stored in a read-protected directory, usually /var/cron/tabs). No direct support is provided for 'at'; you can continue to run 'atrun' from the crontab as you have been doing. If you don't have atrun (i.e., System V) you are in trouble.

A messages is logged each time a command is executed; also, the files "allow" and "deny" in /var/cron can be used to control access to the "crontab" command (which installs crontabs). It hasn't been tested on SysV, although some effort has gone into making the port an easy one.

This is more or less the copyright that USENET contributed software usually has. Since ATT couldn't use this version if they had to freely distribute source, and since I'd love to see them use it, I'll offer some ridiculously low license fee just to have them take it. In the unlikely event that they do this, I will continue to support and distribute the pseudo-PD version, so please, don't flame me for wanting my work to see a wider distribution.

To use this: Sorry, folks, there is no cutesy 'Configure' script. You'll have to go edit a couple of files... So, here's the checklist:

Read all the FEATURES, INSTALL, and CONVERSION files

Edit config.h

Edit Makefile

(both of these files have instructions inside; note that some things in config.h are definable in Makefile and are therefore surrounded by #ifndef...#endif)

'make'

'su' and 'make install'

(you may have to install the man pages by hand)

kill your existing cron process

(actually you can run your existing cron if you want, but why?)

build new crontabs using /usr/lib/{crontab,crontab.local}

(either put them all in "root"'s crontab, or divide it up and rip out all the 'su' commands, collapse the lengthy lists into ranges with steps -- basically, this step is as much work as you want to make it)

start up the new cron

(must be done as root)

watch it. test it with 'crontab -r' and watch the daemon track your changes.
if you like it, change your /etc/{rc,rc.local} to use it instead of the old one.

\$Id: README,v 2.3 1993/12/28 08:34:43 vixie Exp \$

Found in path(s):

* /opt/cola/permits/1223164981_1635867556.65/0/cron-3-0p11-orig-tar-bz2/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/README

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.\" * Paul Vixie <paul@vix.com> uunet!decwrl!vixie!paul
.\" */
.\"
.\" $Id: crontab.1,v 2.4 1993/12/31 10:47:33 vixie Exp $
.\"
```

Found in path(s):

* /opt/cola/permits/1223164981_1635867556.65/0/cron-3-0p11-orig-tar-bz2/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/crontab.1

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Found in path(s):

* /opt/cola/permits/1223164981_1635867556.65/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/compat.h
* /opt/cola/permits/1223164981_1635867556.65/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/externs.h
* /opt/cola/permits/1223164981_1635867556.65/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/pathnames.h

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.\" WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.
.\"
.\" @(#)bitstring.3 5.1 (Berkeley) 12/13/89
.\"

Found in path(s):

* /opt/cola/permits/1223164981_1635867556.65/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/bitstring.3

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* /opt/cola/permits/1223164981_1635867556.65/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/Makefile

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* I'll try to keep a version up to date. I can be reached as follows:
* Paul Vixie <paul@vix.com> uunet!decwrl!vixie!paul
*/
```

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```
* /opt/cola/permits/1223164981_1635867556.65/0/cron-3-0p11-orig-tar-bz2/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/do_command.c
* /opt/cola/permits/1223164981_1635867556.65/0/cron-3-0p11-orig-tar-bz2/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/env.c
* /opt/cola/permits/1223164981_1635867556.65/0/cron-3-0p11-orig-tar-bz2/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/misc.c
* /opt/cola/permits/1223164981_1635867556.65/0/cron-3-0p11-orig-tar-bz2/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/job.c
* /opt/cola/permits/1223164981_1635867556.65/0/cron-3-0p11-orig-tar-bz2/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/entry.c
* /opt/cola/permits/1223164981_1635867556.65/0/cron-3-0p11-orig-tar-bz2/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/cron.c
* /opt/cola/permits/1223164981_1635867556.65/0/cron-3-0p11-orig-tar-bz2/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/config.h
* /opt/cola/permits/1223164981_1635867556.65/0/cron-3-0p11-orig-tar-bz2/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/database.c
* /opt/cola/permits/1223164981_1635867556.65/0/cron-3-0p11-orig-tar-bz2/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/crontab.c
* /opt/cola/permits/1223164981_1635867556.65/0/cron-3-0p11-orig-tar-bz2/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/cron.h
* /opt/cola/permits/1223164981_1635867556.65/0/cron-3-0p11-orig-tar-bz2/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/user.c
* /opt/cola/permits/1223164981_1635867556.65/0/cron-3-0p11-orig-tar-bz2/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/compat.c
```

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*
* @(#)bitstring.h 5.2 (Berkeley) 4/4/90
*/
```

Found in path(s):

```
* /opt/cola/permits/1223164981_1635867556.65/0/cron-3-0p11-orig-tar-bz2/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/bitstring.h
```

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*
*/
```

Found in path(s):

```
* /opt/cola/permits/1223164981_1635867556.65/0/cron-3-0p11-orig-tar-bz2/cron-3-0p11-orig-tar-gz/cron-
```

3.0pl1.orig/popen.c

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.\* Paul Vixie <paul@vix.com> uunet!decwrl!vixie!paul
.\*/
.\"
.\" $Id: crontab.5,v 2.4 1994/01/15 20:43:43 vixie Exp $
.\"
```

Found in path(s):

```
* /opt/cola/permits/1223164981_1635867556.65/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/crontab.5
```

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.\* Paul Vixie <paul@vix.com> uunet!decwrl!vixie!paul
.\*/
.\"
.\" $Id: cron.8,v 2.2 1993/12/28 08:34:43 vixie Exp $
.\"
```

Found in path(s):

* /opt/cola/permits/1223164981_1635867556.65/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/cron.8

1.101 hostname 3.23

1.101.1 Available under license :

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1.102 liblist-compare-perl 0.53-1

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1.103 irqbalance 1.6.0-3ubuntu1

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1.104 init-system-helpers 1.57

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1.105 cpio 2.13+dfsg-2ubuntu0.3

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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the program's name and a brief idea of what it does.>  
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```

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```
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```

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1.107 glib 2.64.3-1~ubuntu20.04.1

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End

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Version 2.1, February 1999

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1.108 selinux 3.0-1build2

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1.109 openssl 1.1.1f 1ubuntu2

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```
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```

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```
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```

```
<signature of Ty Coon>, 1 April 1989
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The End

1.110 libogg 1.3.4-0ubuntu1

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Subject: Re: Distributing the libogg RFCs in the Debian package
To: Ron <ron@debian.org>
Cc: Christopher Montgomery <monty@xiph.org>,
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1.111 libcpanel-json-xs-perl 4.19-1build1

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1.112 libeatmydata 105-7

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```
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```

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<signature of Ty Coon>, 1 April 1989
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Version 2, June 1991

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1.119 strace 5.5-3ubuntu1

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1.121 p11-kit 0.23.20-1ubuntu0.1

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1.122 vim 8.1.2269-1ubuntu5.4

1.123 friendly-recovery 0.2.41

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1.128 linux-kernel 5.4.0-80.90

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1.129 libfastjson 0.99.8 2

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1.130 python-cffi 1.14.0-1build1

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1.131 newt 0.52.21-4ubuntu2

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1.132 man-pages 5.05-1

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```
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#
# find_dot_no_parens.sh
#
# Look for function names after /^[BIR]/ that aren't
# followed by "()".
#
# This script is designed to help with "by hand" tidy-ups after
# the automated changes made by add_parens_for_own_funcs.sh.
#
# The first argument to this script names a manual page directory where
# 'man2' and 'man3' subdirectories can be found. The pages names in
# these directories are used to generate a series of regular expressions
# that can be used to search the manual page files that are named in
# the remaining command-line arguments.
#
# Example usage:
#
# cd man-pages-x.yy
# sh find_dots_no_parens.sh . man?/*.* > matches.log
#
#####
#
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1.133 libhtml-parser-perl 3.72-5

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=head1 NAME

HTML::Parser - HTML parser class

=head1 SYNOPSIS

```
use HTML::Parser ();

# Create parser object
$p = HTML::Parser->new( api_version => 3,
                       start_h => [\&start, "tagname, attr"],
                       end_h   => [\&end, "tagname"],
                       marked_sections => 1,
                       );

# Parse document text chunk by chunk
$p->parse($chunk1);
$p->parse($chunk2);
#...
$p->eof;          # signal end of document

# Parse directly from file
$p->parse_file("foo.html");
# or
open(my $fh, "<:utf8", "foo.html") || die;
$p->parse_file($fh);
```

=head1 DESCRIPTION

Objects of the C<HTML::Parser> class will recognize markup and separate it from plain text (alias data content) in HTML documents. As different kinds of markup and text are recognized, the corresponding event handlers are invoked.

C<HTML::Parser> is not a generic SGML parser. We have tried to make it able to deal with the HTML that is actually "out there", and it normally parses as closely as possible to the way the popular web browsers do it instead of strictly following one of the many HTML

specifications from W3C. Where there is disagreement, there is often an option that you can enable to get the official behaviour.

The document to be parsed may be supplied in arbitrary chunks. This makes on-the-fly parsing as documents are received from the network possible.

If event driven parsing does not feel right for your application, you might want to use `C<HTML::PullParser>`. This is an `C<HTML::Parser>` subclass that allows a more conventional program structure.

=head1 METHODS

The following method is used to construct a new `C<HTML::Parser>` object:

=over

```
=item $p = HTML::Parser->new( %options_and_handlers )
```

This class method creates a new `C<HTML::Parser>` object and returns it. Key/value argument pairs may be provided to assign event handlers or initialize parser options. The handlers and parser options can also be set or modified later by the method calls described below.

If a top level key is in the form "`<event>_h`" (e.g., "`text_h`") then it assigns a handler to that event, otherwise it initializes a parser option. The event handler specification value must be an array reference. Multiple handlers may also be assigned with the `'handlers => [%handlers]'` option. See examples below.

If `new()` is called without any arguments, it will create a parser that uses callback methods compatible with version 2 of `C<HTML::Parser>`. See the section on "version 2 compatibility" below for details.

The special constructor option `'api_version => 2'` can be used to initialize version 2 callbacks while still setting other options and handlers. The `'api_version => 3'` option can be used if you don't want to set any options and don't want to fall back to v2 compatible mode.

Examples:

```
$p = HTML::Parser->new(api_version => 3,  
                      text_h => [ sub { ... }, "dtext" ] );
```

This creates a new parser object with a text event handler subroutine that receives the original text with general entities decoded.

```
$p = HTML::Parser->new(api_version => 3,  
  start_h => [ 'my_start', "self,tokens" ]);
```

This creates a new parser object with a start event handler method that receives the \$p and the tokens array.

```
$p = HTML::Parser->new(api_version => 3,  
  handlers => { text => [ \@array, "event,text"],  
                comment => [ \@array, "event,text"],  
              });
```

This creates a new parser object that stores the event type and the original text in @array for text and comment events.

=back

The following methods feed the HTML document to the C<HTML::Parser> object:

=over

```
=item $p->parse( $string )
```

Parse \$string as the next chunk of the HTML document. Handlers invoked should not attempt to modify the \$string in-place until \$p->parse returns.

If an invoked event handler aborts parsing by calling \$p->eof, then \$p->parse() will return a FALSE value. Otherwise the return value is a reference to the parser object (\$p).

```
=item $p->parse( $code_ref )
```

If a code reference is passed as the argument to be parsed, then the chunks to be parsed are obtained by invoking this function repeatedly. Parsing continues until the function returns an empty (or undefined) result. When this happens \$p->eof is automatically signaled.

Parsing will also abort if one of the event handlers calls \$p->eof.

The effect of this is the same as:

```
while (1) {  
  my $chunk = &$code_ref();  
  if (!defined($chunk) || !length($chunk)) {  
    $p->eof;  
    return $p;  
  }  
}
```

```
$p->parse($chunk) || return undef;
}
```

But it is more efficient as this loop runs internally in XS code.

```
=item $p->parse_file( $file )
```

Parse text directly from a file. The `$file` argument can be a filename, an open file handle, or a reference to an open file handle.

If `$file` contains a filename and the file can't be opened, then the method returns an undefined value and `#!` tells why it failed. Otherwise the return value is a reference to the parser object.

If a file handle is passed as the `$file` argument, then the file will normally be read until EOF, but not closed.

If an invoked event handler aborts parsing by calling `$p->eof`, then `$p->parse_file()` may not have read the entire file.

On systems with multi-byte line terminators, the values passed for the offset and length argspecs may be too low if `parse_file()` is called on a file handle that is not in binary mode.

If a filename is passed in, then `parse_file()` will open the file in binary mode.

```
=item $p->eof
```

Signals the end of the HTML document. Calling the `$p->eof` method outside a handler callback will flush any remaining buffered text (which triggers the `C<text>` event if there is any remaining text).

Calling `$p->eof` inside a handler will terminate parsing at that point and cause `$p->parse` to return a `FALSE` value. This also terminates parsing by `$p->parse_file()`.

After `$p->eof` has been called, the `parse()` and `parse_file()` methods can be invoked to feed new documents with the parser object.

The return value from `eof()` is a reference to the parser object.

```
=back
```

Most parser options are controlled by boolean attributes. Each boolean attribute is enabled by calling the corresponding method

with a TRUE argument and disabled with a FALSE argument. The attribute value is left unchanged if no argument is given. The return value from each method is the old attribute value.

Methods that can be used to get and/or set parser options are:

=over

=item \$p->attr_encoded

=item \$p->attr_encoded(\$bool)

By default, the C<attr> and C<@attr> argspecs will have general entities for attribute values decoded. Enabling this attribute leaves entities alone.

=item \$p->backquote

=item \$p->backquote(\$bool)

By default, only ' and " are recognized as quote characters around attribute values. MSIE also recognizes backquotes for some reason. Enabling this attribute provides compatibility with this behaviour.

=item \$p->boolean_attribute_value(\$val)

This method sets the value reported for boolean attributes inside HTML start tags. By default, the name of the attribute is also used as its value. This affects the values reported for C<tokens> and C<attr> argspecs.

=item \$p->case_sensitive

=item \$p->case_sensitive(\$bool)

By default, tagnames and attribute names are down-cased. Enabling this attribute leaves them as found in the HTML source document.

=item \$p->closing_plaintext

=item \$p->closing_plaintext(\$bool)

By default, "plaintext" element can never be closed. Everything up to the end of the document is parsed in CDATA mode. This historical behaviour is what at least MSIE does. Enabling this attribute makes closing "</plaintext>" tag effective and the parsing process will resume after seeing this tag. This emulates early gecko-based browsers.

=item \$p->empty_element_tags

=item \$p->empty_element_tags(\$bool)

By default, empty element tags are not recognized as such and the "/" before ">" is just treated like a normal name character (unless C<strict_names> is enabled). Enabling this attribute make C<HTML::Parser> recognize these tags.

Empty element tags look like start tags, but end with the character sequence "/>" instead of ">". When recognized by C<HTML::Parser> they cause an artificial end event in addition to the start event. The C<text> for the artificial end event will be empty and the C<tokenpos> array will be undefined even though the token array will have one element containing the tag name.

=item \$p->marked_sections

=item \$p->marked_sections(\$bool)

By default, section markings like <![CDATA[...]]> are treated like ordinary text. When this attribute is enabled section markings are honoured.

There are currently no events associated with the marked section markup, but the text can be returned as C<skipped_text>.

=item \$p->strict_comment

=item \$p->strict_comment(\$bool)

By default, comments are terminated by the first occurrence of "-->". This is the behaviour of most popular browsers (like Mozilla, Opera and MSIE), but it is not correct according to the official HTML standard. Officially, you need an even number of "--" tokens before the closing ">" is recognized and there may not be anything but whitespace between an even and an odd "--".

The official behaviour is enabled by enabling this attribute.

Enabling of 'strict_comment' also disables recognizing these forms as comments:

</ comment>

<! comment>

=item \$p->strict_end

=item \$p->strict_end(\$bool)

By default, attributes and other junk are allowed to be present on end tags in a manner that emulates MSIE's behaviour.

The official behaviour is enabled with this attribute. If enabled, only whitespace is allowed between the tagname and the final ">".

=item \$p->strict_names

=item \$p->strict_names(\$bool)

By default, almost anything is allowed in tag and attribute names. This is the behaviour of most popular browsers and allows us to parse some broken tags with invalid attribute values like:

```
<IMG SRC=newprevlstGr.gif ALT=[PREV LIST] BORDER=0>
```

By default, "LIST]" is parsed as a boolean attribute, not as part of the ALT value as was clearly intended. This is also what Mozilla sees.

The official behaviour is enabled by enabling this attribute. If enabled, it will cause the tag above to be reported as text since "LIST]" is not a legal attribute name.

=item \$p->unbroken_text

=item \$p->unbroken_text(\$bool)

By default, blocks of text are given to the text handler as soon as possible (but the parser takes care always to break text at a boundary between whitespace and non-whitespace so single words and entities can always be decoded safely). This might create breaks that make it hard to do transformations on the text. When this attribute is enabled, blocks of text are always reported in one piece. This will delay the text event until the following (non-text) event has been recognized by the parser.

Note that the C<offset> argspec will give you the offset of the first segment of text and C<length> is the combined length of the segments. Since there might be ignored tags in between, these numbers can't be used to directly index in the original document file.

=item \$p->utf8_mode

=item \$p->utf8_mode(\$bool)

Enable this option when parsing raw undecoded UTF-8. This tells the parser that the entities expanded for strings reported by C<attr>, C<@attr> and C<dtext> should be expanded as decoded UTF-8 so they end up compatible with the surrounding text.

If C<utf8_mode> is enabled then it is an error to pass strings containing characters with code above 255 to the parse() method, and the parse() method will croak if you try.

Example: The Unicode character "\x{2665}" is "\xE2\x99\xA5" when UTF-8 encoded. The character can also be represented by the entity "♥" or "♥". If we feed the parser:

```
$p->parse("\xE2\x99\xA5&hearts;");
```

then C<dtext> will be reported as "\xE2\x99\xA5\x{2665}" without C<utf8_mode> enabled, but as "\xE2\x99\xA5\xE2\x99\xA5" when enabled. The later string is what you want.

This option is only available with perl-5.8 or better.

```
=item $p->xml_mode
```

```
=item $p->xml_mode( $bool )
```

Enabling this attribute changes the parser to allow some XML constructs. This enables the behaviour controlled by individually by the C<case_sensitive>, C<empty_element_tags>, C<strict_names> and C<xml_pic> attributes and also suppresses special treatment of elements that are parsed as CDATA for HTML.

```
=item $p->xml_pic
```

```
=item $p->xml_pic( $bool )
```

By default, I<processing instructions> are terminated by ">". When this attribute is enabled, processing instructions are terminated by "?>" instead.

```
=back
```

As markup and text is recognized, handlers are invoked. The following method is used to set up handlers for different events:

```
=over
```

```
=item $p->handler( event => \&subroutine, $argspec )
```

```
=item $p->handler( event => $method_name, $argspec )
```

```
=item $p->handler( event => \@accum, $argspec )
```

```
=item $p->handler( event => "" );
```

```
=item $p->handler( event => undef );
```

```
=item $p->handler( event );
```

This method assigns a subroutine, method, or array to handle an event.

Event is one of C<text>, C<start>, C<end>, C<declaration>, C<comment>, C<process>, C<start_document>, C<end_document> or C<default>.

The C<\&subroutine> is a reference to a subroutine which is called to handle the event.

The C<\$method_name> is the name of a method of \$p which is called to handle the event.

The C<@accum> is an array that will hold the event information as sub-arrays.

If the second argument is "", the event is ignored.

If it is undef, the default handler is invoked for the event.

The C<\$argspec> is a string that describes the information to be reported for the event. Any requested information that does not apply to a specific event is passed as C<undef>. If argspec is omitted, then it is left unchanged.

The return value from \$p->handler is the old callback routine or a reference to the accumulator array.

Any return values from handler callback routines/methods are always ignored. A handler callback can request parsing to be aborted by invoking the \$p->eof method. A handler callback is not allowed to invoke the \$p->parse() or \$p->parse_file() method. An exception will be raised if it tries.

Examples:

```
$p->handler(start => "start", 'self, attr, attrseq, text' );
```

This causes the "start" method of object \$p to be called for 'start' events.

The callback signature is \$p->start(\%attr, \@attr_seq, \$text).

```
$p->handler(start => \&start, 'attr, attrseq, text' );
```

This causes subroutine start() to be called for 'start' events.
The callback signature is start(\%attr, \@attr_seq, \$text).

```
$p->handler(start => \@accum, "S", attr, attrseq, text' );
```

This causes 'start' event information to be saved in @accum.
The array elements will be ['S', \%attr, \@attr_seq, \$text].

```
$p->handler(start => "");
```

This causes 'start' events to be ignored. It also suppresses
invocations of any default handler for start events. It is in most
cases equivalent to \$p->handler(start => sub {}), but is more
efficient. It is different from the empty-sub-handler in that
C<skipped_text> is not reset by it.

```
$p->handler(start => undef);
```

This causes no handler to be associated with start events.
If there is a default handler it will be invoked.

=back

Filters based on tags can be set up to limit the number of events
reported. The main bottleneck during parsing is often the huge number
of callbacks made from the parser. Applying filters can improve
performance significantly.

The following methods control filters:

=over

```
=item $p->ignore_elements( @tags )
```

Both the C<start> event and the C<end> event as well as any events that
would be reported in between are suppressed. The ignored elements can
contain nested occurrences of itself. Example:

```
$p->ignore_elements(qw(script style));
```

The C<script> and C<style> tags will always nest properly since their
content is parsed in CDATA mode. For most other tags
C<ignore_elements> must be used with caution since HTML is often not
I<well formed>.

=item \$p->ignore_tags(@tags)

Any C<start> and C<end> events involving any of the tags given are suppressed. To reset the filter (i.e. don't suppress any C<start> and C<end> events), call C<ignore_tags> without an argument.

=item \$p->report_tags(@tags)

Any C<start> and C<end> events involving any of the tags I<not> given are suppressed. To reset the filter (i.e. report all C<start> and C<end> events), call C<report_tags> without an argument.

=back

Internally, the system has two filter lists, one for C<report_tags> and one for C<ignore_tags>, and both filters are applied. This effectively gives C<ignore_tags> precedence over C<report_tags>.

Examples:

```
$p->ignore_tags(qw(style));  
$p->report_tags(qw(script style));
```

results in only C<script> events being reported.

=head2 Argspec

Argspec is a string containing a comma-separated list that describes the information reported by the event. The following argspec identifier names can be used:

=over

=item C<attr>

Attr causes a reference to a hash of attribute name/value pairs to be passed.

Boolean attributes' values are either the value set by \$p->boolean_attribute_value, or the attribute name if no value has been set by \$p->boolean_attribute_value.

This passes undef except for C<start> events.

Unless C<xml_mode> or C<case_sensitive> is enabled, the attribute names are forced to lower case.

General entities are decoded in the attribute values and

one layer of matching quotes enclosing the attribute values is removed.

The Unicode character set is assumed for entity decoding.

=item C<@attr>

Basically the same as C<attr>, but keys and values are passed as individual arguments and the original sequence of the attributes is kept. The parameters passed will be the same as the @attr calculated here:

```
@attr = map { $_ => $attr->{$_} } @$attrseq;
```

assuming \$attr and \$attrseq here are the hash and array passed as the result of C<attr> and C<attrseq> argspecs.

This passes no values for events besides C<start>.

=item C<attrseq>

Attrseq causes a reference to an array of attribute names to be passed. This can be useful if you want to walk the C<attr> hash in the original sequence.

This passes undef except for C<start> events.

Unless C<xml_mode> or C<case_sensitive> is enabled, the attribute names are forced to lower case.

=item C<column>

Column causes the column number of the start of the event to be passed. The first column on a line is 0.

=item C<dtext>

Dtext causes the decoded text to be passed. General entities are automatically decoded unless the event was inside a CDATA section or was between literal start and end tags (C<script>, C<style>, C<xmp>, C<iframe>, C<title>, C<textarea> and C<plaintext>).

The Unicode character set is assumed for entity decoding. With Perl version 5.6 or earlier only the Latin-1 range is supported, and entities for characters outside the range 0..255 are left unchanged.

This passes undef except for C<text> events.

=item C<event>

Event causes the event name to be passed.

The event name is one of C<text>, C<start>, C<end>, C<declaration>, C<comment>, C<process>, C<start_document> or C<end_document>.

=item C<is_cdata>

Is_cdata causes a TRUE value to be passed if the event is inside a CDATA section or between literal start and end tags (C<script>, C<style>, C<xmp>, C<iframe>, C<title>, C<textarea> and C<plaintext>).

if the flag is FALSE for a text event, then you should normally either use C<dtext> or decode the entities yourself before the text is processed further.

=item C<length>

Length causes the number of bytes of the source text of the event to be passed.

=item C<line>

Line causes the line number of the start of the event to be passed. The first line in the document is 1. Line counting doesn't start until at least one handler requests this value to be reported.

=item C<offset>

Offset causes the byte position in the HTML document of the start of the event to be passed. The first byte in the document has offset 0.

=item C<offset_end>

Offset_end causes the byte position in the HTML document of the end of the event to be passed. This is the same as C<offset> + C<length>.

=item C<self>

Self causes the current object to be passed to the handler. If the handler is a method, this must be the first element in the argspec.

An alternative to passing self as an argspec is to register closures that capture \$self by themselves as handlers. Unfortunately this creates circular references which prevent the HTML::Parser object from being garbage collected. Using the C<self> argspec avoids this problem.

=item C<skipped_text>

Skipped_text returns the concatenated text of all the events that have been skipped since the last time an event was reported. Events might be skipped because no handler is registered for them or because some filter applies. Skipped text also includes marked section markup, since there are no events that can catch it.

If an C<"">-handler is registered for an event, then the text for this event is not included in C<skipped_text>. Skipped text both before and after the C<"">-event is included in the next reported C<skipped_text>.

=item C<tag>

Same as C<tagname>, but prefixed with "/" if it belongs to an C<end> event and "!" for a declaration. The C<tag> does not have any prefix for C<start> events, and is in this case identical to C<tagname>.

=item C<tagname>

This is the element name (or I<generic identifier> in SGML jargon) for start and end tags. Since HTML is case insensitive, this name is forced to lower case to ease string matching.

Since XML is case sensitive, the tagname case is not changed when C<xml_mode> is enabled. The same happens if the C<case_sensitive> attribute is set.

The declaration type of declaration elements is also passed as a tagname, even if that is a bit strange.

In fact, in the current implementation tagname is identical to C<token0> except that the name may be forced to lower case.

=item C<token0>

Token0 causes the original text of the first token string to be passed. This should always be the same as \$tokens->[0].

For C<declaration> events, this is the declaration type.

For C<start> and C<end> events, this is the tag name.

For C<process> and non-strict C<comment> events, this is everything inside the tag.

This passes undef if there are no tokens in the event.

=item C<tokenpos>

Tokenpos causes a reference to an array of token positions to be passed. For each string that appears in C<tokens>, this array contains two numbers. The first number is the offset of the start of the token in the original C<text> and the second number is the length of the token.

Boolean attributes in a C<start> event will have (0,0) for the attribute value offset and length.

This passes undef if there are no tokens in the event (e.g., C<text>) and for artificial C<end> events triggered by empty element tags.

If you are using these offsets and lengths to modify C<text>, you should either work from right to left, or be very careful to calculate the changes to the offsets.

=item C<tokens>

Tokens causes a reference to an array of token strings to be passed. The strings are exactly as they were found in the original text, no decoding or case changes are applied.

For C<declaration> events, the array contains each word, comment, and delimited string starting with the declaration type.

For C<comment> events, this contains each sub-comment. If \$p->strict_comments is disabled, there will be only one sub-comment.

For C<start> events, this contains the original tag name followed by the attribute name/value pairs. The values of boolean attributes will be either the value set by \$p->boolean_attribute_value, or the attribute name if no value has been set by \$p->boolean_attribute_value.

For C<end> events, this contains the original tag name (always one token).

For C<process> events, this contains the process instructions (always one token).

This passes C<undef> for C<text> events.

=item C<text>

Text causes the source text (including markup element delimiters) to be passed.

=item C<undef>

Pass an undefined value. Useful as padding where the same handler routine is registered for multiple events.

=item C<'... '>

A literal string of 0 to 255 characters enclosed in single (') or double (") quotes is passed as entered.

=back

The whole argspec string can be wrapped up in C<'@{...}'> to signal that the resulting event array should be flattened. This only makes a difference if an array reference is used as the handler target.

Consider this example:

```
$p->handler(text => [], 'text');  
$p->handler(text => [], '@{text}');
```

With two text events; C<"foo">, C<"bar">; then the first example will end up with [["foo"], ["bar"]] and the second with ["foo", "bar"] in the handler target array.

=head2 Events

Handlers for the following events can be registered:

=over

=item C<comment>

This event is triggered when a markup comment is recognized.

Example:

```
<!-- This is a comment -- -- So is this -->
```

=item C<declaration>

This event is triggered when a I<markup declaration> is recognized.

For typical HTML documents, the only declaration you are likely to find is <!DOCTYPE ...>.

Example:

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01//EN"
"http://www.w3.org/TR/html4/strict.dtd">
```

DTDs inside `<!DOCTYPE ...>` will confuse `HTML::Parser`.

=item C<default>

This event is triggered for events that do not have a specific handler. You can set up a handler for this event to catch stuff you did not want to catch explicitly.

=item C<end>

This event is triggered when an end tag is recognized.

Example:

```
</A>
```

=item C<end_document>

This event is triggered when `$p->eof` is called and after any remaining text is flushed. There is no document text associated with this event.

=item C<process>

This event is triggered when a processing instructions markup is recognized.

The format and content of processing instructions are system and application dependent.

Examples:

```
<? HTML processing instructions >
<? XML processing instructions ?>
```

=item C<start>

This event is triggered when a start tag is recognized.

Example:

```
<A HREF="http://www.perl.com/">
```

=item C<start_document>

This event is triggered before any other events for a new document. A

handler for it can be used to initialize stuff. There is no document text associated with this event.

=item C<text>

This event is triggered when plain text (characters) is recognized. The text may contain multiple lines. A sequence of text may be broken between several text events unless `$p->unbroken_text` is enabled.

The parser will make sure that it does not break a word or a sequence of whitespace between two text events.

=back

=head2 Unicode

`C<HTML::Parser>` can parse Unicode strings when running under perl-5.8 or better. If Unicode is passed to `$p->parse()` then chunks of Unicode will be reported to the handlers. The offset and length argspecs will also report their position in terms of characters.

It is safe to parse raw undecoded UTF-8 if you either avoid decoding entities and make sure to not use `I<argspecs>` that do, or enable the `C<utf8_mode>` for the parser. Parsing of undecoded UTF-8 might be useful when parsing from a file where you need the reported offsets and lengths to match the byte offsets in the file.

If a filename is passed to `$p->parse_file()` then the file will be read in binary mode. This will be fine if the file contains only ASCII or Latin-1 characters. If the file contains UTF-8 encoded text then care must be taken when decoding entities as described in the previous paragraph, but better is to open the file with the UTF-8 layer so that it is decoded properly:

```
open(my $fh, "<:utf8", "index.html") || die "... $!";  
$p->parse_file($fh);
```

If the file contains text encoded in a charset besides ASCII, Latin-1 or UTF-8 then decoding will always be needed.

=head1 VERSION 2 COMPATIBILITY

When an `C<HTML::Parser>` object is constructed with no arguments, a set of handlers is automatically provided that is compatible with the old `HTML::Parser` version 2 callback methods.

This is equivalent to the following method calls:

```

$p->handler(start => "start", "self, tagname, attr, attrseq, text");
$p->handler(end => "end", "self, tagname, text");
$p->handler(text => "text", "self, text, is_cdata");
$p->handler(process => "process", "self, token0, text");
$p->handler(comment =>
    sub {
        my($self, $tokens) = @_;
        for (@$tokens) {$self->comment($_)}},
        "self, tokens");
$p->handler(declaration =>
    sub {
        my $self = shift;
        $self->declaration(substr($_[0], 2, -1));},
        "self, text");

```

Setting up these handlers can also be requested with the "api_version => 2" constructor option.

=head1 SUBCLASSING

The C<HTML::Parser> class is subclassable. Parser objects are plain hashes and C<HTML::Parser> reserves only hash keys that start with "_hparser". The parser state can be set up by invoking the init() method, which takes the same arguments as new().

=head1 EXAMPLES

The first simple example shows how you might strip out comments from an HTML document. We achieve this by setting up a comment handler that does nothing and a default handler that will print out anything else:

```

use HTML::Parser;
HTML::Parser->new(default_h => [sub { print shift }, 'text'],
    comment_h => [""],
    )->parse_file(shift || die) || die $!;

```

An alternative implementation is:

```

use HTML::Parser;
HTML::Parser->new(end_document_h => [sub { print shift },
    'skipped_text'],
    comment_h => [""],
    )->parse_file(shift || die) || die $!;

```

This will in most cases be much more efficient since only a single callback will be made.

The next example prints out the text that is inside the <title>

element of an HTML document. Here we start by setting up a start handler. When it sees the title start tag it enables a text handler that prints any text found and an end handler that will terminate parsing as soon as the title end tag is seen:

```
use HTML::Parser ();

sub start_handler
{
    return if shift ne "title";
    my $self = shift;
    $self->handler(text => sub { print shift }, "dtext");
    $self->handler(end => sub { shift->eof if shift eq "title"; },
        "tagname,self");
}

my $p = HTML::Parser->new(api_version => 3);
$p->handler( start => \&start_handler, "tagname,self");
$p->parse_file(shift || die) || die $!;
print "\n";
```

More examples are found in the `F<eg/>` directory of the `C<HTML-Parser>` distribution: the program `C<hrefsub>` shows how you can edit all links found in a document; the program `C<htextsub>` shows how to edit the text only; the program `C<hstrip>` shows how you can strip out certain tags/elements and/or attributes; and the program `C<htext>` show how to obtain the plain text, but not any `script/style` content.

You can browse the `F<eg/>` directory online from the `I<[Browse]>` link on the <http://search.cpan.org/~gaas/HTML-Parser/> page.

=head1 BUGS

The `<style>` and `<script>` sections do not end with the first `"</"`, but need the complete corresponding end tag. The standard behaviour is not really practical.

When the `I<strict_comment>` option is enabled, we still recognize comments where there is something other than whitespace between even and odd `"--"` markers.

Once `$p->boolean_attribute_value` has been set, there is no way to restore the default behaviour.

There is currently no way to get both quote characters into the same literal `argspec`.

Empty tags, e.g. `"<>"` and `"</>"`, are not recognized. SGML allows them

to repeat the previous start tag or close the previous start tag respectively.

NET tags, e.g. "code/..." are not recognized. This is SGML shorthand for "<code>...</code>".

Unclosed start or end tags, e.g. "<tt...</b</tt>" are not recognized.

=head1 DIAGNOSTICS

The following messages may be produced by HTML::Parser. The notation in this listing is the same as used in L<perldiag>:

=over

=item Not a reference to a hash

(F) The object blessed into or subclassed from HTML::Parser is not a hash as required by the HTML::Parser methods.

=item Bad signature in parser state object at %p

(F) The `_hparser_xs_state` element does not refer to a valid state structure. Something must have changed the internal value stored in this hash element, or the memory has been overwritten.

=item `_hparser_xs_state` element is not a reference

(F) The `_hparser_xs_state` element has been destroyed.

=item Can't find '`_hparser_xs_state`' element in HTML::Parser hash

(F) The `_hparser_xs_state` element is missing from the parser hash. It was either deleted, or not created when the object was created.

=item API version %s not supported by HTML::Parser %s

(F) The constructor option 'api_version' with an argument greater than or equal to 4 is reserved for future extensions.

=item Bad constructor option '%s'

(F) An unknown constructor option key was passed to the `new()` or `init()` methods.

=item Parse loop not allowed

(F) A handler invoked the parse() or parse_file() method.
This is not permitted.

=item marked sections not supported

(F) The \$p->marked_sections() method was invoked in a HTML::Parser module that was compiled without support for marked sections.

=item Unknown boolean attribute (%d)

(F) Something is wrong with the internal logic that set up aliases for boolean attributes.

=item Only code or array references allowed as handler

(F) The second argument for \$p->handler must be either a subroutine reference, then name of a subroutine or method, or a reference to an array.

=item No handler for %s events

(F) The first argument to \$p->handler must be a valid event name; i.e. one of "start", "end", "text", "process", "declaration" or "comment".

=item Unrecognized identifier %s in argspec

(F) The identifier is not a known argspec name.
Use one of the names mentioned in the argspec section above.

=item Literal string is longer than 255 chars in argspec

(F) The current implementation limits the length of literals in an argspec to 255 characters. Make the literal shorter.

=item Backslash reserved for literal string in argspec

(F) The backslash character "\" is not allowed in argspec literals.
It is reserved to permit quoting inside a literal in a later version.

=item Unterminated literal string in argspec

(F) The terminating quote character for a literal was not found.

=item Bad argspec (%s)

(F) Only identifier names, literals, spaces and commas are allowed in argspecs.

=item Missing comma separator in argspec

(F) Identifiers in an argspec must be separated with ",".

=item Parsing of undecoded UTF-8 will give garbage when decoding entities

(W) The first chunk parsed appears to contain undecoded UTF-8 and one or more argspecs that decode entities are used for the callback handlers.

The result of decoding will be a mix of encoded and decoded characters for any entities that expand to characters with code above 127. This is not a good thing.

The recommended solution is to apply `Encode::decode_utf8()` on the data before feeding it to the `$p->parse()`. For `$p->parse_file()` pass a file that has been opened in `":utf8"` mode.

The alternative solution is to enable the `C<utf8_mode>` and not decode before passing strings to `$p->parse()`. The parser can process raw undecoded UTF-8 sanely if the `C<utf8_mode>` is enabled, or if the `"attr"`, `"@attr"` or `"dtext"` argspecs are avoided.

=item Parsing string decoded with wrong endianness

(W) The first character in the document is U+FFFE. This is not a legal Unicode character but a byte swapped BOM. The result of parsing will likely be garbage.

=item Parsing of undecoded UTF-32

(W) The parser found the Unicode UTF-32 BOM signature at the start of the document. The result of parsing will likely be garbage.

=item Parsing of undecoded UTF-16

(W) The parser found the Unicode UTF-16 BOM signature at the start of the document. The result of parsing will likely be garbage.

=back

=head1 SEE ALSO

L<HTML::Entities>, L<HTML::PullParser>, L<HTML::TokenParser>, L<HTML::HeadParser>, L<HTML::LinkExtor>, L<HTML::Form>

L<HTML::TreeBuilder> (part of the I<HTML-Tree> distribution)

L<<http://www.w3.org/TR/html4/>>

More information about marked sections and processing instructions may be found at L<<http://www.is-thought.co.uk/book/sgml-8.htm>>.

=head1 COPYRIGHT

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=cut

Found in path(s):

* /opt/cola/permits/1135169270_1613462977.8/0/libhtml-parser-perl-3-72-orig-1-tar-gz/HTML-Parser-3.72/Parser.pm

No license file was found, but licenses were detected in source scan.

OVERVIEW

The HTML-Parser distribution is a collection of modules that parse and extract information from HTML documents. The modules present in this collection are:

HTML::Parser - The parser base class. It receives arbitrary sized chunks of the HTML text, recognizes markup elements, and separates them from the plain text. As different kinds of markup and text are recognized, the corresponding event handlers are invoked.

HTML::Entities - Provides functions to encode and decode text with embedded HTML <entities>.

HTML::HeadParser - A lightweight HTML::Parser subclass that extracts information from the <HEAD> section of an HTML document.

HTML::LinkExtor - An HTML::Parser subclass that extracts links from an HTML document.

HTML::PullParser - An alternative interface to the basic parser that does not require event driven programming.

HTML::TokenParser - An HTML::PullParser subclass with fixed token setup and methods for extracting text. Many simple parsing needs are probably best attacked with this module.

In addition take a look at the HTML-Tree package that build on HTML::Parser to create and extract information from HTML syntax trees (similar to HTML DOM).

PREREQUISITES

In order to install and use this package you will need Perl version 5.8 or better. The HTML::Tagset module should be installed.

If you intend to use the HTML::HeadParser you probably want to install libwww-perl too.

INSTALLATION

Just follow the usual procedure:

```
perl Makefile.PL
make
make test
make install
```

REPORTING BUGS

Bug reports and issues for discussion about these modules can be sent to the <libwww@perl.org> mailing list.

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Found in path(s):

```
* /opt/cola/permits/1135169270_1613462977.8/0/libhtml-parser-perl-3-72-orig-1-tar-gz/HTML-Parser-3.72/README
```

No license file was found, but licenses were detected in source scan.

=encoding utf8

=head1 NAME

HTML::Entities - Encode or decode strings with HTML entities

=head1 SYNOPSIS

```
use HTML::Entities;
```

```
$a = "V&aring;re norske tegn b&oslash;r &#230res";  
decode_entities($a);  
encode_entities($a, "\200-\377");
```

For example, this:

```
$input = "vis-à-vis Beyoncé's naïve\npapier-mâché résumé";  
print encode_entities($input), "\n"
```

Prints this out:

```
vis-&agrave;-vis Beyonc&eacute;'s na&iuml;ve  
papier-m&acirc;ch&eacute; r&eacute;sum&eacute;
```

=head1 DESCRIPTION

This module deals with encoding and decoding of strings with HTML character entities. The module provides the following functions:

=over 4

=item decode_entities(\$string, ...)

This routine replaces HTML entities found in the \$string with the corresponding Unicode character. Unrecognized entities are left alone.

If multiple strings are provided as argument they are each decoded separately and the same number of strings are returned.

If called in void context the arguments are decoded in-place.

This routine is exported by default.

=item _decode_entities(\$string, \%entity2char)

=item _decode_entities(\$string, \%entity2char, \$expand_prefix)

This will in-place replace HTML entities in \$string. The %entity2char hash must be provided. Named entities not found in the %entity2char hash are left alone. Numeric entities are expanded unless their value overflow.

The keys in %entity2char are the entity names to be expanded and their

values are what they should expand into. The values do not have to be single character strings. If a key has ";" as suffix, then occurrences in \$string are only expanded if properly terminated with ";". Entities without ";" will be expanded regardless of how they are terminated for compatibility with how common browsers treat entities in the Latin-1 range.

If \$expand_prefix is TRUE then entities without trailing ";" in %entity2char will even be expanded as a prefix of a longer unrecognized name. The longest matching name in %entity2char will be used. This is mainly present for compatibility with an MSIE misfeature.

```
$string = "foo&nbsp;bar";  
_decode_entities($string, { nb => "@", nbsp => "\xA0" }, 1);  
print $string; # will print "foo bar"
```

This routine is exported by default.

```
=item encode_entities( $string )
```

```
=item encode_entities( $string, $unsafe_chars )
```

This routine replaces unsafe characters in \$string with their entity representation. A second argument can be given to specify which characters to consider unsafe. The unsafe characters is specified using the regular expression character class syntax (what you find within brackets in regular expressions).

The default set of characters to encode are control chars, high-bit chars, and the C<<< >>, C<<& >>, C<<> >>, C<<' >> and C<<" >> characters. But this, for example, would encode I<just> the C<<< >>, C<<& >>, C<<> >>, and C<<" >> characters:

```
$encoded = encode_entities($input, '<>&');
```

and this would only encode non-plain ascii:

```
$encoded = encode_entities($input, '^[\n\x20-\x25\x27-\x7e]');
```

This routine is exported by default.

```
=item encode_entities_numeric( $string )
```

```
=item encode_entities_numeric( $string, $unsafe_chars )
```

This routine works just like encode_entities, except that the replacement entities are always C<&#xI<hexnum>;> and never C<&I<entname>;>. For

example, `C<encode_entities("r\xF4le")>` returns `"rôle"`, but `C<encode_entities_numeric("r\xF4le")>` returns `"rôle"`.

This routine is I<not> exported by default. But you can always export it with `C<use HTML::Entities qw(encode_entities_numeric);>` or even `C<use HTML::Entities qw(:DEFAULT encode_entities_numeric);>`

=back

All these routines modify the string passed as the first argument, if called in a void context. In scalar and array contexts, the encoded or decoded string is returned (without changing the input string).

If you prefer not to import these routines into your namespace, you can call them as:

```
use HTML::Entities ();
$decoded = HTML::Entities::decode($a);
$encoded = HTML::Entities::encode($a);
$encoded = HTML::Entities::encode_numeric($a);
```

The module can also export the `%char2entity` and the `%entity2char` hashes, which contain the mapping from all characters to the corresponding entities (and vice versa, respectively).

=head1 COPYRIGHT

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=cut

Found in path(s):

```
* /opt/cola/permits/1135169270_1613462977.8/0/libhtml-parser-perl-3-72-orig-1-tar-gz/HTML-Parser-3.72/lib/HTML/Entities.pm
```

No license file was found, but licenses were detected in source scan.

=head1 NAME

HTML::PullParser - Alternative HTML::Parser interface

=head1 SYNOPSIS

```
use HTML::PullParser;
```

```
$p = HTML::PullParser->new(file => "index.html",
```

```

        start => 'event, tagname, @attr',
        end   => 'event, tagname',
        ignore_elements => [qw(script style)],
    ) || die "Can't open: $!";
while (my $token = $p->get_token) {
    #...do something with $token
}

```

=head1 DESCRIPTION

The `HTML::PullParser` is an alternative interface to the `HTML::Parser` class. It basically turns the `HTML::Parser` inside out. You associate a file (or any `IO::Handle` object or string) with the parser at construction time and then repeatedly call `$parser->get_token` to obtain the tags and text found in the parsed document.

The following methods are provided:

=over 4

```
=item $p = HTML::PullParser->new( file => $file, %options )
```

```
=item $p = HTML::PullParser->new( doc => \$doc, %options )
```

A `C<HTML::PullParser>` can be made to parse from either a file or a literal document based on whether the `C<file>` or `C<doc>` option is passed to the parser's constructor.

The `C<file>` passed in can either be a file name or a file handle object. If a file name is passed, and it can't be opened for reading, then the constructor will return an undefined value and `#!` will tell you why it failed. Otherwise the argument is taken to be some object that the `C<HTML::PullParser>` can `read()` from when it needs more data. The stream will be `read()` until EOF, but not closed.

A `C<doc>` can be passed plain or as a reference to a scalar. If a reference is passed then the value of this scalar should not be changed before all tokens have been extracted.

Next the information to be returned for the different token types must be set up. This is done by simply associating an `argspec` (as defined in `L<HTML::Parser>`) with the events you have an interest in. For instance, if you want `C<start>` tokens to be reported as the string `C<'S'>` followed by the tagname and the attributes you might pass an `C<start>`-option like this:

```

$p = HTML::PullParser->new(
    doc => $document_to_parse,

```



```
    start => "S", tagname, @attr',
    end   => "E", tagname',
);
```

At last other C<HTML::Parser> options, like C<ignore_tags>, and C<unbroken_text>, can be passed in. Note that you should not use the I<event>_h options to set up parser handlers. That would confuse the inner logic of C<HTML::PullParser>.

```
=item $token = $p->get_token
```

This method will return the next I<token> found in the HTML document, or C<undef> at the end of the document. The token is returned as an array reference. The content of this array match the argspec set up during C<HTML::PullParser> construction.

```
=item $p->unget_token( @tokens )
```

If you find out you have read too many tokens you can push them back, so that they are returned again the next time \$p->get_token is called.

```
=back
```

```
=head1 EXAMPLES
```

The 'eg/hform' script shows how we might parse the form section of HTML::Documents using HTML::PullParser.

```
=head1 SEE ALSO
```

L<HTML::Parser>, L<HTML::TokeParser>

```
=head1 COPYRIGHT
```

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```
=cut
```

Found in path(s):

```
* /opt/cola/permits/1135169270_1613462977.8/0/libhtml-parser-perl-3-72-orig-1-tar-gz/HTML-Parser-3.72/lib/HTML/PullParser.pm
```

No license file was found, but licenses were detected in source scan.

```
/*
```

```
* Copyright 1999-2009, Gisle Aas.
```

*
* This library is free software; you can redistribute it and/or
* modify it under the same terms as Perl itself.
*/

Found in path(s):

* /opt/cola/permits/1135169270_1613462977.8/0/libhtml-parser-perl-3-72-orig-1-tar-gz/HTML-Parser-3.72/util.c
No license file was found, but licenses were detected in source scan.

=head1 NAME

HTML::Tokenizer - Alternative HTML::Parser interface

=head1 SYNOPSIS

```
require HTML::Tokenizer;  
$p = HTML::Tokenizer->new("index.html") ||  
    die "Can't open: $!";  
$p->empty_element_tags(1); # configure its behaviour  
  
while (my $token = $p->get_token) {  
    #...  
}
```

=head1 DESCRIPTION

The C<HTML::Tokenizer> is an alternative interface to the C<HTML::Parser> class. It is an C<HTML::PullParser> subclass with a predeclared set of token types. If you wish the tokens to be reported differently you probably want to use the C<HTML::PullParser> directly.

The following methods are available:

=over 4

=item \$p = HTML::Tokenizer->new(\$filename, %opt);

=item \$p = HTML::Tokenizer->new(\$filehandle, %opt);

=item \$p = HTML::Tokenizer->new(\ \$document, %opt);

The object constructor argument is either a file name, a file handle object, or the complete document to be parsed. Extra options can be provided as key/value pairs and are processed as documented by the base classes.

If the argument is a plain scalar, then it is taken as the name of a file to be opened and parsed. If the file can't be opened for

reading, then the constructor will return C<undef> and \$! will tell you why it failed.

If the argument is a reference to a plain scalar, then this scalar is taken to be the literal document to parse. The value of this scalar should not be changed before all tokens have been extracted.

Otherwise the argument is taken to be some object that the C<HTML::TokeParser> can read() from when it needs more data. Typically it will be a filehandle of some kind. The stream will be read() until EOF, but not closed.

A newly constructed C<HTML::TokeParser> differ from its base classes by having the C<unbroken_text> attribute enabled by default. See L<HTML::Parser> for a description of this and other attributes that influence how the document is parsed. It is often a good idea to enable C<empty_element_tags> behaviour.

Note that the parsing result will likely not be valid if raw undecoded UTF-8 is used as a source. When parsing UTF-8 encoded files turn on UTF-8 decoding:

```
open(my $fh, "<:utf8", "index.html") || die "Can't open 'index.html': $!";
my $p = HTML::TokeParser->new( $fh );
# ...
```

If a \$filename is passed to the constructor the file will be opened in raw mode and the parsing result will only be valid if its content is Latin-1 or pure ASCII.

If parsing from an UTF-8 encoded string buffer decode it first:

```
utf8::decode($document);
my $p = HTML::TokeParser->new( \ $document );
# ...
```

```
=item $p->get_token
```

This method will return the next I<token> found in the HTML document, or C<undef> at the end of the document. The token is returned as an array reference. The first element of the array will be a string denoting the type of this token: "S" for start tag, "E" for end tag, "T" for text, "C" for comment, "D" for declaration, and "PI" for process instructions. The rest of the token array depend on the type like this:

```
["S", $tag, $attr, $attrseq, $text]
```

```
["E", $tag, $text]
```

```
["T", $text, $is_data]
["C", $text]
["D", $text]
["PI", $token0, $text]
```

where \$attr is a hash reference, \$attrseq is an array reference and the rest are plain scalars. The L<HTML::Parser/Argspec> explains the details.

```
=item $p->unget_token( @tokens )
```

If you find you have read too many tokens you can push them back, so that they are returned the next time \$p->get_token is called.

```
=item $p->get_tag
```

```
=item $p->get_tag( @tags )
```

This method returns the next start or end tag (skipping any other tokens), or C<undef> if there are no more tags in the document. If one or more arguments are given, then we skip tokens until one of the specified tag types is found. For example:

```
$p->get_tag("font", "/font");
```

will find the next start or end tag for a font-element.

The tag information is returned as an array reference in the same form as for \$p->get_token above, but the type code (first element) is missing. A start tag will be returned like this:

```
[$tag, $attr, $attrseq, $text]
```

The tagname of end tags are prefixed with "/", i.e. end tag is returned like this:

```
["/$tag", $text]
```

```
=item $p->get_text
```

```
=item $p->get_text( @endtags )
```

This method returns all text found at the current position. It will return a zero length string if the next token is not text. Any entities will be converted to their corresponding character.

If one or more arguments are given, then we return all text occurring before the first of the specified tags found. For example:

```
$p->get_text("p", "br");
```

will return the text up to either a paragraph or linebreak element.

The text might span tags that should be I<textified>. This is controlled by the `$p->{textify}` attribute, which is a hash that defines how certain tags can be treated as text. If the name of a start tag matches a key in this hash then this tag is converted to text. The hash value is used to specify which tag attribute to obtain the text from. If this tag attribute is missing, then the upper case name of the tag enclosed in brackets is returned, e.g. "[IMG]". The hash value can also be a subroutine reference. In this case the routine is called with the start tag token content as its argument and the return value is treated as the text.

The default `$p->{textify}` value is:

```
{img => "alt", applet => "alt"}
```

This means that and <APPLET> tags are treated as text, and that the text to substitute can be found in the ALT attribute.

```
=item $p->get_trimmed_text
```

```
=item $p->get_trimmed_text( @endtags )
```

Same as `$p->get_text` above, but will collapse any sequences of white space to a single space character. Leading and trailing white space is removed.

```
=item $p->get_phrase
```

This will return all text found at the current position ignoring any phrasal-level tags. Text is extracted until the first non phrasal-level tag. Textification of tags is the same as for `get_text()`. This method will collapse white space in the same way as `get_trimmed_text()` does.

The definition of <i>phrasal-level tags</i> is obtained from the `HTML::Tagset` module.

```
=back
```

```
=head1 EXAMPLES
```

This example extracts all links from a document. It will print one line for each link, containing the URL and the textual description

between the <A>... tags:

```
use HTML::TokeParser;
$p = HTML::TokeParser->new(shift||"index.html");

while (my $token = $p->get_tag("a")) {
    my $url = $token->[1]{href} || "-";
    my $text = $p->get_trimmed_text("/a");
    print "$url\t$text\n";
}
```

This example extract the <TITLE> from the document:

```
use HTML::TokeParser;
$p = HTML::TokeParser->new(shift||"index.html");
if ($p->get_tag("title")) {
    my $title = $p->get_trimmed_text;
    print "Title: $title\n";
}
```

=head1 SEE ALSO

L<HTML::PullParser>, L<HTML::Parser>

=head1 COPYRIGHT

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=cut

Found in path(s):

```
* /opt/cola/permits/1135169270_1613462977.8/0/libhtml-parser-perl-3-72-orig-1-tar-gz/HTML-Parser-3.72/lib/HTML/TokeParser.pm
```

No license file was found, but licenses were detected in source scan.

=back

=head1 EXAMPLE

This is an example showing how you can extract links from a document received using LWP:

```
use LWP::UserAgent;
use HTML::LinkExtor;
use URI::URL;
```

```

$url = "http://www.perl.org/"; # for instance
$sua = LWP::UserAgent->new;

# Set up a callback that collect image links
my @imgs = ();
sub callback {
    my($tag, %attr) = @_;
    return if $tag ne 'img'; # we only look closer at <img ...>
    push(@imgs, values %attr);
}

# Make the parser. Unfortunately, we don't know the base yet
# (it might be different from $url)
$p = HTML::LinkExtor->new(\&callback);

# Request document and parse it as it arrives
$res = $sua->request(HTTP::Request->new(GET => $url),
    sub {$p->parse($_[0])});

# Expand all image URLs to absolute ones
my $base = $res->base;
@imgs = map { $_ = url($_, $base)->abs; } @imgs;

# Print them out
print join("\n", @imgs), "\n";

```

=head1 SEE ALSO

L<HTML::Parser>, L<HTML::Tagset>, L<LWP>, L<URI::URL>

=head1 COPYRIGHT

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=cut

Found in path(s):

```
* /opt/cola/permits/1135169270_1613462977.8/0/libhtml-parser-perl-3-72-orig-1-tar-gz/HTML-Parser-3.72/lib/HTML/LinkExtor.pm
```

No license file was found, but licenses were detected in source scan.

/*

* Copyright 1999-2016, Gisle Aas

* Copyright 1999-2000, Michael A. Chase

```
*
* This library is free software; you can redistribute it and/or
* modify it under the same terms as Perl itself.
*/
```

Found in path(s):

```
* /opt/cola/permits/1135169270_1613462977.8/0/libhtml-parser-perl-3-72-orig-1-tar-gz/HTML-Parser-3.72/hparser.h
* /opt/cola/permits/1135169270_1613462977.8/0/libhtml-parser-perl-3-72-orig-1-tar-gz/HTML-Parser-3.72/hparser.c
```

No license file was found, but licenses were detected in source scan.

=head1 NAME

HTML::Filter - Filter HTML text through the parser

=head1 NOTE

B<This module is deprecated.> The C<HTML::Parser> now provides the functionality of C<HTML::Filter> much more efficiently with the C<default> handler.

=head1 SYNOPSIS

```
require HTML::Filter;
$p = HTML::Filter->new->parse_file("index.html");
```

=head1 DESCRIPTION

C<HTML::Filter> is an HTML parser that by default prints the original text of each HTML element (a slow version of cat(1) basically). The callback methods may be overridden to modify the filtering for some HTML elements and you can override output() method which is called to print the HTML text.

C<HTML::Filter> is a subclass of C<HTML::Parser>. This means that the document should be given to the parser by calling the \$p->parse() or \$p->parse_file() methods.

=head1 EXAMPLES

The first example is a filter that will remove all comments from an HTML file. This is achieved by simply overriding the comment method to do nothing.

```
package CommentStripper;
require HTML::Filter;
@ISA=qw(HTML::Filter);
```



```
sub comment { } # ignore comments
```

The second example shows a filter that will remove any `E<lt>TABLE>s` found in the HTML file. We specialize the `start()` and `end()` methods to count table tags and then make output not happen when inside a table.

```
package TableStripper;
require HTML::Filter;
@ISA=qw(HTML::Filter);
sub start
{
    my $self = shift;
    $self->{table_seen}++ if $_[0] eq "table";
    $self->SUPER::start(@_);
}

sub end
{
    my $self = shift;
    $self->SUPER::end(@_);
    $self->{table_seen}-- if $_[0] eq "table";
}

sub output
{
    my $self = shift;
    unless ($self->{table_seen}) {
        $self->SUPER::output(@_);
    }
}
```

If you want to collect the parsed text internally you might want to do something like this:

```
package FilterIntoString;
require HTML::Filter;
@ISA=qw(HTML::Filter);
sub output { push(@{$_[0]->{fhtml}}, $_[1]) }
sub filtered_html { join("", @($_[0]->{fhtml})) }
```

=head1 SEE ALSO

L<HTML::Parser>

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=cut

Found in path(s):

* /opt/cola/permits/1135169270_1613462977.8/0/libhtml-parser-perl-3-72-orig-1-tar-gz/HTML-Parser-3.72/lib/HTML/Filter.pm

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/*

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*

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*/

Found in path(s):

* /opt/cola/permits/1135169270_1613462977.8/0/libhtml-parser-perl-3-72-orig-1-tar-gz/HTML-Parser-3.72/Parser.xs

No license file was found, but licenses were detected in source scan.

=back

=head1 EXAMPLE

```
$h = HTTP::Headers->new;
```

```
$p = HTML::HeadParser->new($h);
```

```
$p->parse(<<EOT);
```

```
<title>Stupid example</title>
```

```
<base href="http://www.linpro.no/lwp/">
```

```
Normal text starts here.
```

```
EOT
```

```
undef $p;
```

```
print $h->title; # should print "Stupid example"
```

=head1 SEE ALSO

L<HTML::Parser>, L<HTTP::Headers>

The C<HTTP::Headers> class is distributed as part of the I<libwww-perl> package. If you don't have that distribution installed you need to provide the \$header argument to the C<HTML::HeadParser> constructor with your own object that implements the documented protocol.

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Found in path(s):

* /opt/cola/permits/1135169270_1613462977.8/0/libhtml-parser-perl-3-72-orig-1-tar-gz/HTML-Parser-3.72/lib/HTML/HeadParser.pm

No license file was found, but licenses were detected in source scan.

abstract: 'HTML parser class'

author:

- 'Gisle Aas <gisle@activestate.com>'

build_requires:

ExtUtils::MakeMaker: 0

Test::More: 0

configure_requires:

ExtUtils::MakeMaker: 0

dynamic_config: 1

generated_by: 'ExtUtils::MakeMaker version 6.66, CPAN::Meta::Converter version 2.133380'

license: perl

meta-spec:

url: <http://module-build.sourceforge.net/META-spec-v1.4.html>

version: 1.4

name: HTML-Parser

no_index:

directory:

- t

- inc

recommends:

HTTP::Headers: 0

requires:

HTML::Tagset: 3

XSLoader: 0

perl: 5.008

resources:

MailingList: <mailto:libwww@perl.org>

repository: <http://github.com/gisle/html-parser>

version: 3.72

Found in path(s):

* /opt/cola/permits/1135169270_1613462977.8/0/libhtml-parser-perl-3-72-orig-1-tar-gz/HTML-Parser-3.72/META.yml

1.134 isc-dhcp 4.4.1-2.1ubuntu5.20.04.2

1.134.1 Available under license :

```
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1.135 netifaces 0.10.4-1ubuntu4

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```
license="MIT License",
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```

Found in path(s):

```
* /opt/cola/permits/1125673932_1611394449.3/0/netifaces-0-10-4-orig-1-tar-gz/netifaces-0.10.4/setup.py
```

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netifaces 0.10.4

=====

```
.. image:: https://drone.io/bitbucket.org/al45tair/netifaces/status.png
:target: https://drone.io/bitbucket.org/al45tair/netifaces/latest
:alt: Build Status
```

1. What is this?

It's been annoying me for some time that there's no easy way to get the address(es) of the machine's network interfaces from Python. There is a good reason for this difficulty, which is that it is virtually impossible to do so in a portable manner. However, it seems to me that there should be a package you can `easy_install` that will take care of working out the details of doing so on the machine you're using, then you can get on with writing Python code without concerning yourself with the nitty gritty of system-dependent low-level networking APIs.

This package attempts to solve that problem.

2. How do I use it?

First you need to install it, which you can do by typing::

```
tar xvzf netifaces-0.10.4.tar.gz
cd netifaces-0.10.4
```

```
python setup.py install
```

Once that's done, you'll need to start Python and do something like the following::

```
>>> import netifaces
```

Then if you enter

```
>>> netifaces.interfaces()
['lo0', 'gif0', 'stf0', 'en0', 'en1', 'fw0']
```

you'll see the list of interface identifiers for your machine.

You can ask for the addresses of a particular interface by doing

```
>>> netifaces.ifaddresses('lo0')
{18: [{'addr': ''}], 2: [{'peer': '127.0.0.1', 'netmask': '255.0.0.0', 'addr': '127.0.0.1'}], 30: [{'peer': '::1', 'netmask': 'ffff:ffff:ffff:ffff:ffff:ffff:ffff:ffff', 'addr': '::1'}, {'peer': '', 'netmask': 'ffff:ffff:ffff:ffff::', 'addr': 'fe80::1%lo0'}]}
```

Hmmm. That result looks a bit cryptic; let's break it apart and explain what each piece means. It returned a dictionary, so let's look there first::

```
{ 18: [...], 2: [...], 30: [...] }
```

Each of the numbers refers to a particular address family. In this case, we have three address families listed; on my system, 18 is ``AF_LINK`` (which means the link layer interface, e.g. Ethernet), 2 is ``AF_INET`` (normal Internet addresses), and 30 is ``AF_INET6`` (IPv6).

But wait! Don't use these numbers in your code. The numeric values here are system dependent; fortunately, I thought of that when writing `netifaces`, so the module declares a range of values that you might need. e.g.

```
>>> netifaces.AF_LINK
18
```

Again, on your system, the number may be different.

So, what we've established is that the dictionary that's returned has one entry for each address family for which this interface has an address. Let's take a look at the ``AF_INET`` addresses now:

```
>>> addrs = netifaces.ifaddresses('lo0')
>>> addrs[netifaces.AF_INET]
[{'peer': '127.0.0.1', 'netmask': '255.0.0.0', 'addr': '127.0.0.1'}]
```

You might be wondering why this value is a list. The reason is that it's

possible for an interface to have more than one address, even within the same family. I'll say that again: *you can have more than one address of the same type associated with each interface*.

Asking for "the" address of a particular interface doesn't make sense.

Right, so, we can see that this particular interface only has one address, and, because it's a loopback interface, it's point-to-point and therefore has a *peer* address rather than a broadcast address.

Let's look at a more interesting interface.

```
>>> addrs = netifaces.ifaddresses('en0')
>>> addrs[netifaces.AF_INET]
[{'broadcast': '10.15.255.255', 'netmask': '255.240.0.0', 'addr': '10.0.1.4'}, {'broadcast': '192.168.0.255', 'addr': '192.168.0.47'}]
```

This interface has two addresses (see, I told you...) Both of them are regular IPv4 addresses, although in one case the netmask has been changed from its default. The netmask *may not* appear on your system if it's set to the default for the address range.

Because this interface isn't point-to-point, it also has broadcast addresses.

Now, say we want, instead of the IP addresses, to get the MAC address; that is, the hardware address of the Ethernet adapter running this interface. We can do

```
>>> addrs[netifaces.AF_LINK]
[{'addr': '00:12:34:56:78:9a'}]
```

Note that this may not be available on platforms without `getifaddrs()`, unless they happen to implement ```SIOCGIFHWADDR```. Note also that you just get the address; it's unlikely that you'll see anything else with an ```AF_LINK``` address. Oh, and don't assume that all ```AF_LINK``` addresses are Ethernet; you might, for instance, be on a Mac, in which case:

```
>>> addrs = netifaces.ifaddresses('fw0')
>>> addrs[netifaces.AF_LINK]
[{'addr': '00:12:34:56:78:9a:bc:de'}]
```

No, that isn't an exceptionally long Ethernet MAC address---it's a FireWire address.

As of version 0.10.0, you can also obtain a list of gateways on your machine:

```
>>> netifaces.gateways()
```

```
{2: [('10.0.1.1', 'en0', True), ('10.2.1.1', 'en1', False)], 30: [('fe80::1', 'en0', True)], 'default': { 2: ('10.0.1.1', 'en0'), 30: ('fe80::1', 'en0') }}
```

This dictionary is keyed on address family---in this case, ``AF_INET``---and each entry is a list of gateways as ``(address, interface, is_default)`` tuples. Notice that here we have two separate gateways for IPv4 (``AF_INET``); some operating systems support configurations like this and can either route packets based on their source, or based on administratively configured routing tables.

For convenience, we also allow you to index the dictionary with the special value ``'default'``, which returns a dictionary mapping address families to the default gateway in each case. Thus you can get the default IPv4 gateway with

```
>>> gws = netifaces.gateways()
>>> gws['default'][netifaces.AF_INET]
('10.0.1.1', 'en0')
```

Do note that there may be no default gateway for any given address family; this is currently very common for IPv6 and much less common for IPv4 but it can happen even for ``AF_INET``.

BTW, if you're trying to configure your machine to have multiple gateways for the same address family, it's a very good idea to check the documentation for your operating system *very* carefully, as some systems become extremely confused or route packets in a non-obvious manner.

I'm very interested in hearing from anyone (on any platform) for whom the ``gateways()`` method doesn't produce the expected results. It's quite complicated extracting this information from the operating system (whichever operating system we're talking about), and so I expect there's at least one system out there where this just won't work.

3. This is great! What platforms does it work on?

It gets regular testing on OS X, Linux and Windows. It has also been used successfully on Solaris, and it's expected to work properly on other UNIX-like systems as well. If you are running something that is not supported, and wish to contribute a patch, please use BitBucket to send a pull request.

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It's an MIT-style license. Here goes:

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5. Why the jump to 0.10.0?

Because someone released a fork of netifaces with the version 0.9.0. Hopefully skipping the version number should remove any confusion. In addition starting with 0.10.0 Python 3 is now supported and other features/bugfixes have been included as well. See the CHANGELOG for a more complete list of changes.

Found in path(s):

* /opt/cola/permits/1125673932_1611394449.3/0/netifaces-0-10-4-orig-1-tar-gz/netifaces-0.10.4/README.rst

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Metadata-Version: 1.1

Name: netifaces

Version: 0.10.4

Summary: Portable network interface information.

Home-page: <https://bitbucket.org/al45tair/netifaces>

Author: Alastair Houghton

Author-email: alastair@alastairs-place.net

License: MIT License

Description: netifaces 0.10.4

=====

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:target: <https://drone.io/bitbucket.org/al45tair/netifaces/latest>

:alt: Build Status

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cd netifaces-0.10.4
python setup.py install
```

Once that's done, you'll need to start Python and do something like the following::

```
>>> import netifaces
```

Then if you enter

```
>>> netifaces.interfaces()
['lo0', 'gif0', 'stf0', 'en0', 'en1', 'fw0']
```

you'll see the list of interface identifiers for your machine.

You can ask for the addresses of a particular interface by doing

```
>>> netifaces.ifaddresses('lo0')
{18: [{'addr': ''}], 2: [{'peer': '127.0.0.1', 'netmask': '255.0.0.0', 'addr': '127.0.0.1'}], 30: [{'peer': '::1', 'netmask': 'ffff:ffff:ffff:ffff:ffff:ffff:ffff:ffff', 'addr': '::1'}, {'peer': '', 'netmask': 'ffff:ffff:ffff:ffff::', 'addr': 'fe80::1%lo0'}]}
```

Hmmmm. That result looks a bit cryptic; let's break it apart and explain what each piece means. It returned a dictionary, so let's look there first::

```
{ 18: [...], 2: [...], 30: [...] }
```

Each of the numbers refers to a particular address family. In this case, we have three address families listed; on my system, 18 is ``AF_LINK`` (which means the link layer interface, e.g. Ethernet), 2 is ``AF_INET`` (normal Internet addresses), and 30 is ``AF_INET6`` (IPv6).

But wait! Don't use these numbers in your code. The numeric values here are system dependent; fortunately, I thought of that when writing `netifaces`, so the module declares a range of values that you might need. e.g.

```
>>> netifaces.AF_LINK
18
```

Again, on your system, the number may be different.

So, what we've established is that the dictionary that's returned has one entry for each address family for which this interface has an address. Let's take a look at the `AF_INET` addresses now:

```
>>> addrs = netifaces.ifaddresses('lo0')
>>> addrs[netifaces.AF_INET]
[{'peer': '127.0.0.1', 'netmask': '255.0.0.0', 'addr': '127.0.0.1'}]
```

You might be wondering why this value is a list. The reason is that it's possible for an interface to have more than one address, even within the same family. I'll say that again: *you can have more than one address of the same type associated with each interface*.

Asking for "the" address of a particular interface doesn't make sense.

Right, so, we can see that this particular interface only has one address, and, because it's a loopback interface, it's point-to-point and therefore has a **peer** address rather than a broadcast address.

Let's look at a more interesting interface.

```
>>> addrs = netifaces.ifaddresses('en0')
>>> addrs[netifaces.AF_INET]
[{'broadcast': '10.15.255.255', 'netmask': '255.240.0.0', 'addr': '10.0.1.4'}, {'broadcast': '192.168.0.255', 'addr': '192.168.0.47'}]
```

This interface has two addresses (see, I told you...) Both of them are regular IPv4 addresses, although in one case the netmask has been changed from its default. The netmask **may not** appear on your system if it's set to the default for the address range.

Because this interface isn't point-to-point, it also has broadcast addresses.

Now, say we want, instead of the IP addresses, to get the MAC address; that is, the hardware address of the Ethernet adapter running this interface. We can do

```
>>> addrs[netifaces.AF_LINK]
[{'addr': '00:12:34:56:78:9a'}]
```

Note that this may not be available on platforms without `getifaddrs()`, unless they happen to implement ```SIOCGIFHWADDR```. Note also that you just get the address; it's unlikely that you'll see anything else with an ```AF_LINK``` address. Oh, and don't assume that all ```AF_LINK``` addresses are Ethernet; you might, for instance, be on a Mac, in which case:

```
>>> addrs = netifaces.ifaddresses('fw0')
>>> addrs[netifaces.AF_LINK]
[{'addr': '00:12:34:56:78:9a:bc:de'}]
```

No, that isn't an exceptionally long Ethernet MAC address---it's a FireWire address.

As of version 0.10.0, you can also obtain a list of gateways on your machine:

```
>>> netifaces.gateways()
{2: [('10.0.1.1', 'en0', True), ('10.2.1.1', 'en1', False)], 30: [('fe80::1', 'en0', True)], 'default': { 2: ('10.0.1.1', 'en0'),
30: ('fe80::1', 'en0') }}
```

This dictionary is keyed on address family---in this case, ```AF_INET```---and each entry is a list of gateways as ```(address, interface, is_default)``` tuples. Notice that here we have two separate gateways for IPv4 (```AF_INET```); some operating systems support configurations like this and can either route packets based on their source, or based on administratively configured routing tables.

For convenience, we also allow you to index the dictionary with the special value ```default```, which returns a dictionary mapping address families to the default gateway in each case. Thus you can get the default IPv4 gateway with

```
>>> gws = netifaces.gateways()
>>> gws['default'][netifaces.AF_INET]
('10.0.1.1', 'en0')
```

Do note that there may be no default gateway for any given address family; this is currently very common for IPv6 and much less common for IPv4 but it can happen even for ```AF_INET```.

BTW, if you're trying to configure your machine to have multiple gateways for the same address family, it's a very good idea to check the documentation for your operating system *very* carefully, as some systems become extremely confused or route packets in a non-obvious manner.

I'm very interested in hearing from anyone (on any platform) for whom the ```gateways()``` method doesn't produce the expected results. It's quite complicated extracting this information from the operating system (whichever operating system we're talking about), and so I expect there's at least one

system out there where this just won't work.

3. This is great! What platforms does it work on?

It gets regular testing on OS X, Linux and Windows. It has also been used successfully on Solaris, and it's expected to work properly on other UNIX-like systems as well. If you are running something that is not supported, and wish to contribute a patch, please use BitBucket to send a pull request.

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5. Why the jump to 0.10.0?

Because someone released a fork of netifaces with the version 0.9.0. Hopefully skipping the version number should remove any confusion. In addition starting with 0.10.0 Python 3 is now supported and other features/bugfixes have been included as well. See the CHANGELOG for a more complete list of changes.

Platform: UNKNOWN

Classifier: Development Status :: 4 - Beta

Classifier: Intended Audience :: Developers

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Classifier: Topic :: System :: Networking
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.5
Classifier: Programming Language :: Python :: 2.6
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3

Found in path(s):

* /opt/cola/permits/1125673932_1611394449.3/0/netifaces-0-10-4-orig-1-tar-gz/netifaces-0.10.4/PKG-INFO
* /opt/cola/permits/1125673932_1611394449.3/0/netifaces-0-10-4-orig-1-tar-gz/netifaces-0.10.4/netifaces.egg-info/PKG-INFO

1.136 libcbor 0.6.0-0ubuntu1

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1.137 nano 4.8-1ubuntu1

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ARCFOUR

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BLOWFISH

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CAMELLIA

The C implementation is by Nippon Telegraph and Telephone Corporation (NTT), heavily modified by Niels Miller. Assembler for x86 and x86_64 by Niels Miller. Released under the LGPL.

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CAST128

The implementation of the CAST128 cipher is written by Steve Reid. Released into the public domain.

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DES

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MD2

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MD4

This is almost the same code as for MD5 below, with modifications by Marcus Comstedt. Released into the public domain.

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MD5

The implementation of the MD5 message digest is written by Colin Plumb. It has been hacked some more by Andrew Kuchling and Niels Miller. Released into the public domain.

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SHA1

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SHA224, SHA256, SHA384, and SHA512

Written by Niels Mller, using Peter Gutmann's SHA1 code as a model. Released under the LGPL.

TWOFISH

The implementation of the TWOFISH cipher is written by Ruud de Rooij. Released under the LGPL.

RSA

Written by Niels Mller, released under the LGPL. Uses the GMP library for bignum operations.

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1.142 Isov 4.93.2+dfsg-1ubuntu0.20.04.1

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1.143 libnet-http-perl 6.19-1

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1.144 python-setuptools 45.2.0-1

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1.145 libperlcorelibsperl 0.004-2

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Andrew Main (Zefram) <zefram@fysh.org> built the Perl4::CoreLibs package.

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- 'Ilya Zakharevich'
- 'Andrew Main (Zefram) <zefram@fysh.org>'

build_requires:

Config: '0'

IO::Handle: '0'

Module::Build: '0.26'

Test::More: '0'

perl: '5.006'

strict: '0'

warnings: '0'
configure_requires:
Module::Build: '0.26'
perl: '5.006'
strict: '0'
warnings: '0'
dynamic_config: 0
generated_by: 'Module::Build version 0.4224, CPAN::Meta::Converter version 2.150010'
license: perl
meta-spec:
url: <http://module-build.sourceforge.net/META-spec-v1.4.html>
version: '1.4'
name: Perl4-CoreLibs
provides:
Perl4::CoreLibs:
file: lib/Perl4/CoreLibs.pm
version: '0.004'
requires:
File::Find: '0'
Getopt::Long: '0'
IPC::Open2: '0'
IPC::Open3: '0'
Socket: '0'
Text::ParseWords: '3.25'
Time::Local: '0'
perl: '5.006'
strict: '0'
warnings: '0'
warnings::register: '0'
resources:
bugtracker: <https://rt.cpan.org/Public/Dist/Display.html?Name=Perl4-CoreLibs>
license: <http://dev.perl.org/licenses/>
version: '0.004'
x_serialization_backend: 'CPAN::Meta::YAML version 0.012'

Found in path(s):

* /opt/cola/permits/1196513463_1629913595.41/0/libperl4-corelibs-perl-0-004-orig-1-tar-gz/Perl4-CoreLibs-0.004/META.yml

No license file was found, but licenses were detected in source scan.

NAME

Perl4::CoreLibs - libraries historically supplied with Perl 4

DESCRIPTION

This is a collection of ".pl" files that were bundled with the Perl core until core version 5.15.1. Relying on their presence in the core

distribution is deprecated; they should be acquired from this CPAN distribution instead. From core version 5.13.3 until their removal, the core versions of these libraries emit a deprecation warning when loaded. The CPAN version does not emit such a warning.

The entire Perl 4 approach to libraries was largely superseded in Perl 5.000 by the system of module namespaces and ".pm" files. Most of the libraries in this collection predate Perl 5.000, but a handful were first introduced in that version. Functionally, most have been directly superseded by modules in the Perl 5 style. These libraries should not be used by new code. This collection exists to support old Perl programs that predates satisfactory replacements.

Most of these libraries have not been substantially maintained in the course of Perl 5 development. They are now very antiquated in style, making no use of the language facilities introduced since Perl 4. They should therefore not be used as programming examples.

INSTALLATION

```
perl Build.PL
./Build
./Build test
./Build install
```

AUTHOR

Known contributing authors for the libraries in this package are Brandon S. Allbery, John Bazik, Tom Christiansen <tchrist@convex.com>, Charles Collins, Joe Douppnik <JRD@CC.USU.EDU>, Marion Hakanson <hakanson@cse.ogi.edu>, Waldemar Kepsch <kepsch.pad@nixpbe.UUCP>, Lee McLoughlin <lmjm@doc.ic.ac.uk>, <A.Macpherson@bnr.co.uk>, Randal L. Schwartz <merlyn@stonehenge.com>, Aaron Sherman <asherman@fmrco.com>, Wayne Thompson, Larry Wall <lwall@jpl-devvax.jpl.nasa.gov>, and Ilya Zakharevich. (Most of these email addresses are probably out of date.)

Known contributing authors for the tests in this package are Tom Christiansen <tchrist@convex.com>, Alexandr Ciornii (alexchorny at gmail.com), Marc Horowitz <marc@mit.edu>, Dave Rolsky <autarch@urth.org>, and David Sundstrom <sunds@asictest.sc.ti.com>.

Andrew Main (Zefram) <zefram@fysh.org> built the Perl4::CoreLibs package.

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* /opt/cola/permits/1196513463_1629913595.41/0/libperl4-corelibs-perl-0-004-orig-1-tar-gz/Perl4-CoreLibs-0.004/README

1.146 libmspack 0.10.1-2

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1.147 jinja2 2.10.1

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1.148 libutempter 1.1.6-4

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1.150 libtypes-serialiser-perl 1.0-1

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1.151 gnutls 3.6.13-2ubuntu1.6

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```
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```
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#####

```
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##
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1.155 audit 2.8.5-2ubuntu6

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include/bsd/err.h

include/bsd/stdlib.h

include/bsd/sys/param.h

include/bsd/unistd.h

src/bsd_getopt.c

src/err.c

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include/bsd/sys/bitstring.h
include/bsd/sys/queue.h
include/bsd/sys/time.h
include/bsd/timeconv.h
include/bsd/vis.h
man/bitstring.3bsd
man/errc.3bsd
man/explicit_bzero.3bsd
man/fgetln.3bsd
man/fgetwln.3bsd
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man/strmode.3bsd
man/strnstr.3bsd
man/strtoi.3bsd
man/strtou.3bsd
man/unvis.3bsd
man/vis.3bsd
man/wcsncpy.3bsd
src/getbsize.c
src/heapsort.c
src/merge.c
src/nlist.c
src/radixsort.c
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man/fmtcheck.3bsd
man/humanize_number.3bsd
man/stringlist.3bsd
man/timeval.3bsd
src/fmtcheck.c
src/humanize_number.c
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man/expand_number.3bsd

man/flopen.3bsd

man/getpeereid.3bsd

man/pidfile.3bsd

src/expand_number.c

src/hash/sha512.h

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man/readpassphrase.3bsd

man/strncpy.3bsd

man/strtonum.3bsd

src/arc4random.c

src/arc4random_linux.h

src/arc4random_openbsd.h

src/arc4random_uniform.c

src/arc4random_unix.h

src/arc4random_win.h
src/closefrom.c
src/getentropy_aix.c
src/getentropy_bsd.c
src/getentropy_hpux.c
src/getentropy_hurd.c
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src/getentropy_osx.c
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1.160 mime-support 3.64ubuntu1

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1.161 libusb 1.0.23-2build1

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1.165 python-idna 2.8-1

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```
* /opt/cola/permits/1138607654_1614296153.76/0/python-idna-2-8-orig-1-tar-gz/idna-2.8/LICENSE.rst
```

No license file was found, but licenses were detected in source scan.

```
"""
```

A library to support the Internationalised Domain Names in Applications (IDNA) protocol as specified in RFC 5890 et.al. This new methodology, known as IDNA 2008, can generate materially different results to the previous standard. The library can act as a drop-in replacement for the "encodings.idna" module.

```
"""
```

```
import io, sys
```

```
from setuptools import setup
```

```
def main():
```

```
    python_version = sys.version_info[:2]
```

```
    if python_version < (2,7):
```

```
        raise SystemExit("Sorry, Python 2.7 or newer required")
```

```
    package_data = { }
```

```
    exec(open('idna/package_data.py').read(), package_data)
```

```
    arguments = {
```

```
        'name': 'idna',
```

```
        'packages': ['idna'],
```

```
        'version': package_data['__version__'],
```

```

'description': 'Internationalized Domain Names in Applications (IDNA)',
'long_description': io.open("README.rst", encoding="UTF-8").read(),
'author': 'Kim Davies',
'author_email': 'kim@cynosure.com.au',
'license': 'BSD-like',
'url': 'https://github.com/kjd/idna',
'classifiers': [
    'Development Status :: 5 - Production/Stable',
    'Intended Audience :: Developers',
    'Intended Audience :: System Administrators',
    'License :: OSI Approved :: BSD License',
    'Operating System :: OS Independent',
    'Programming Language :: Python',
    'Programming Language :: Python :: 2',
    'Programming Language :: Python :: 2.7',
    'Programming Language :: Python :: 3',
    'Programming Language :: Python :: 3.4',
    'Programming Language :: Python :: 3.5',
    'Programming Language :: Python :: 3.6',
    'Topic :: Internet :: Name Service (DNS)',
    'Topic :: Software Development :: Libraries :: Python Modules',
    'Topic :: Utilities',
],
'python_requires': '>=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*',
'test_suite': 'tests',
}

```

```
setup(**arguments)
```

```
if __name__ == '__main__':
    main()
```

Found in path(s):

* /opt/cola/permits/1138607654_1614296153.76/0/python-idna-2-8-orig-1-tar-gz/idna-2.8/setup.py

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Metadata-Version: 1.2

Name: idna

Version: 2.8

Summary: Internationalized Domain Names in Applications (IDNA)

Home-page: <https://github.com/kjd/idna>

Author: Kim Davies

Author-email: kim@cynosure.com.au

License: BSD-like

Description: Internationalized Domain Names in Applications (IDNA)

=====

Support for the Internationalised Domain Names in Applications

(IDNA) protocol as specified in `RFC 5891 <<http://tools.ietf.org/html/rfc5891>>`_. This is the latest version of the protocol and is sometimes referred to as “IDNA 2008”.

This library also provides support for Unicode Technical Standard 46, `Unicode IDNA Compatibility Processing <<http://unicode.org/reports/tr46/>>`_.

This acts as a suitable replacement for the “encodings.idna” module that comes with the Python standard library, but only supports the old, deprecated IDNA specification (`RFC 3490 <<http://tools.ietf.org/html/rfc3490>>`_).

Basic functions are simply executed:

```
.. code-block:: pycon
```

```
# Python 3
>>> import idna
>>> idna.encode('.')
b'xn--eckwd4c7c.xn--zckzah'
>>> print(idna.decode('xn--eckwd4c7c.xn--zckzah'))
.

# Python 2
>>> import idna
>>> idna.encode(u'.')
'xn--eckwd4c7c.xn--zckzah'
>>> print idna.decode('xn--eckwd4c7c.xn--zckzah')
.
```

Packages

The latest tagged release version is published in the PyPI repository:

```
.. image:: https://badge.fury.io/py/idna.svg
:target: http://badge.fury.io/py/idna
```

Installation

To install this library, you can use pip:

```
.. code-block:: bash

$ pip install idna
```

Alternatively, you can install the package using the bundled setup script:


```
.. code-block:: bash
```

```
$ python setup.py install
```

This library works with Python 2.7 and Python 3.4 or later.

Usage

For typical usage, the `encode` and `decode` functions will take a domain name argument and perform a conversion to A-labels or U-labels respectively.

```
.. code-block:: pycon
```

```
# Python 3
>>> import idna
>>> idna.encode('.')
b'xn--eckwd4c7c.xn--zckzah'
>>> print(idna.decode('xn--eckwd4c7c.xn--zckzah'))
.
```

You may use the codec encoding and decoding methods using the `idna.codec` module:

```
.. code-block:: pycon
```

```
# Python 2
>>> import idna.codec
>>> print u'.'.encode('idna')
xn--80ahd1agd.xn--80akhbyknj4f
>>> print 'xn--80ahd1agd.xn--80akhbyknj4f'.decode('idna')
.
```

Conversions can be applied at a per-label basis using the `ulabel` or `alabel` functions if necessary:

```
.. code-block:: pycon
```

```
# Python 2
>>> idna.alabel(u'')
'xn--0zwm56d'
```

Compatibility Mapping (UTS #46)

```
+++++
```

As described in `RFC 5895 <<http://tools.ietf.org/html/rfc5895>>`, the IDNA

specification no longer normalizes input from different potential ways a user may input a domain name. This functionality, known as a “mapping”, is now considered by the specification to be a local user-interface issue distinct from IDNA conversion functionality.

This library provides one such mapping, that was developed by the Unicode Consortium. Known as `Unicode IDNA Compatibility Processing` <<http://unicode.org/reports/tr46/>>, it provides for both a regular mapping for typical applications, as well as a transitional mapping to help migrate from older IDNA 2003 applications.

For example, “Königsgäßchen” is not a permissible label as *LATIN CAPITAL LETTER K* is not allowed (nor are capital letters in general). UTS 46 will convert this into lower case prior to applying the IDNA conversion.

.. code-block:: pycon

```
# Python 3
>>> import idna
>>> idna.encode(u'Königsgäßchen')
...
idna.core.InvalidCodepoint: Codepoint U+004B at position 1 of 'Königsgäßchen' not allowed
>>> idna.encode('Königsgäßchen', uts46=True)
b'xn--knigsgchen-b4a3dun'
>>> print(idna.decode('xn--knigsgchen-b4a3dun'))
königsgäßchen
```

Transitional processing provides conversions to help transition from the older 2003 standard to the current standard. For example, in the original IDNA specification, the *LATIN SMALL LETTER SHARP S* (ß) was converted into two *LATIN SMALL LETTER S* (ss), whereas in the current IDNA specification this conversion is not performed.

.. code-block:: pycon

```
# Python 2
>>> idna.encode(u'Königsgäßchen', uts46=True, transitional=True)
'xn--knigsgsschen-lcb0w'
```

Implementors should use transitional processing with caution, only in rare cases where conversion from legacy labels to current labels must be performed (i.e. IDNA implementations that pre-date 2008). For typical applications that just need to convert labels, transitional processing is unlikely to be beneficial and could produce unexpected incompatible results.

```
``encodings.idna`` Compatibility
+++++
```

Function calls from the Python built-in ``encodings.idna`` module are

mapped to their IDNA 2008 equivalents using the `idna.compat` module. Simply substitute the `import` clause in your code to refer to the new module name.

Exceptions

All errors raised during the conversion following the specification should raise an exception derived from the `idna.IDNAError` base class.

More specific exceptions that may be generated as `idna.IDNABidiError` when the error reflects an illegal combination of left-to-right and right-to-left characters in a label; `idna.InvalidCodepoint` when a specific codepoint is an illegal character in an IDN label (i.e. INVALID); and `idna.InvalidCodepointContext` when the codepoint is illegal based on its positional context (i.e. it is CONTEXTO or CONTEXTJ but the contextual requirements are not satisfied.)

Building and Diagnostics

The IDNA and UTS 46 functionality relies upon pre-calculated lookup tables for performance. These tables are derived from computing against eligibility criteria in the respective standards. These tables are computed using the command-line script `tools/idna-data`.

This tool will fetch relevant tables from the Unicode Consortium and perform the required calculations to identify eligibility. It has three main modes:

- * `idna-data make-libdata`. Generates `idnadata.py` and `uts46data.py`, the pre-calculated lookup tables using for IDNA and UTS 46 conversions. Implementors who wish to track this library against a different Unicode version may use this tool to manually generate a different version of the `idnadata.py` and `uts46data.py` files.
- * `idna-data make-table`. Generate a table of the IDNA disposition (e.g. PVALID, CONTEXTJ, CONTEXTO) in the format found in Appendix B.1 of RFC 5892 and the pre-computed tables published by IANA <<http://iana.org/>>.
- * `idna-data U+0061`. Prints debugging output on the various properties associated with an individual Unicode codepoint (in this case, U+0061), that are used to assess the IDNA and UTS 46 status of a codepoint. This is helpful in debugging or analysis.

The tool accepts a number of arguments, described using `idna-data -h`. Most notably, the `--version` argument allows the specification of the version of Unicode to use in computing the table data. For example, `idna-data --version 9.0.0 make-libdata` will generate library data against Unicode 9.0.0.

Note that this script requires Python 3, but all generated library data will work in Python 2.7.

Testing

The library has a test suite based on each rule of the IDNA specification, as well as tests that are provided as part of the Unicode Technical Standard 46, `Unicode IDNA Compatibility Processing <<http://unicode.org/reports/tr46/>>`.

The tests are run automatically on each commit at Travis CI:

```
.. image:: https://travis-ci.org/kjd/idna.svg?branch=master
   :target: https://travis-ci.org/kjd/idna
```

Platform: UNKNOWN

Classifier: Development Status :: 5 - Production/Stable

Classifier: Intended Audience :: Developers

Classifier: Intended Audience :: System Administrators

Classifier: License :: OSI Approved :: BSD License

Classifier: Operating System :: OS Independent

Classifier: Programming Language :: Python

Classifier: Programming Language :: Python :: 2

Classifier: Programming Language :: Python :: 2.7

Classifier: Programming Language :: Python :: 3

Classifier: Programming Language :: Python :: 3.4

Classifier: Programming Language :: Python :: 3.5

Classifier: Programming Language :: Python :: 3.6

Classifier: Topic :: Internet :: Name Service (DNS)

Classifier: Topic :: Software Development :: Libraries :: Python Modules

Classifier: Topic :: Utilities

Requires-Python: >=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*

Found in path(s):

* /opt/cola/permits/1138607654_1614296153.76/0/python-idna-2-8-orig-1-tar-gz/idna-2.8/idna.egg-info/PKG-INFO

* /opt/cola/permits/1138607654_1614296153.76/0/python-idna-2-8-orig-1-tar-gz/idna-2.8/PKG-INFO

1.166 python-oauthlib 3.1.0-1ubuntu2

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1.167 libwww-perl 6.43-1

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```
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1.168 pyrsistent 0.15.5-1build1

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1.171 python-distro 1.4.0-1

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1.172 adduser 3.118ubuntu2

1.172.1 Available under license :

This package was first put together by Ian Murdock <imurdock@debian.org> and was maintained by Steve Phillips <sjp@cvfn.org> from sources written for the Debian Project by Ian Murdock, Ted Hajek <tedhajek@boombox.micro.umn.edu>, and Sven Rudolph <sr1@inf.tu-dresden.de>.

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1.173 libunistring 0.9.10 2

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```
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```

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1.176 libtext-iconv-perl 1.7-7

1.176.1 Available under license :

No license file was found, but licenses were detected in source scan.

Text::Iconv Version 1.6

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Description

This module provides a Perl interface to the iconv() codeset conversion function, as defined by the Single UNIX Specification. For more details see the POD documentation embedded in the file Iconv.pm, which will also be installed as Text::Iconv(3) man page.

Prerequisites

Your system should be compliant with the Single UNIX Specification or at least provide iconv_open(), iconv() and iconv_close() functions compliant with it.

Note that the possible conversions and the quality of the conversions depend on the available iconv conversion tables and algorithms, which are in most cases supplied by the operating system vendor. Some systems also allow you to build your own tables (e.g., HP-UX, Tru64 UNIX, and AIX provide the genxlt(1) command).

It is also possible to use a separate iconv library such as GNU libiconv package, just make sure that the desired library is found

(see <http://www.gnu.org/directory/localization/libiconv.html>).

Building the module

Since the Single UNIX Specification only specifies an interface, several issues are left to the implementation to define, namely:

1. The supported codesets
2. The supported conversions
3. The names for the supported codesets

Please check your system documentation for the above points.

The module can be built using this sequence of commands:

```
perl Makefile.PL
make
make test
```

On some systems, the iconv functions are in libc; on others (and when you want to use a separate iconv library, such as GNU libiconv), you have to link with `-liconv`. `Makefile.PL` tries to automatically detect this. However, if your iconv library is in a non-standard path, you might have to help it. You can specify library and include paths like this:

```
perl Makefile.PL LIBS='-L/path/to/lib' INC='-I/path/to/include'
```

You might also have to do this if you have multiple iconv implementations installed and want to use a specific one.

The purpose of the test scripts (run by "make test") is to check if an iconv library can be found, and if the iconv functions can be called. It is neither intended to find out which conversions are supported, nor to test the quality of the conversions provided by your iconv library. However, since the iconv functions can only be tested by calling them, which in turn requires the specification of codesets to be converted. The test scripts try some conversions which seem to be widely supported. Conversions not supported by your iconv implementation are skipped, but for the purpose outlined above this is no problem, as it shows that the iconv functions are working. There is no standard way to find out which conversions are supported by an implementation. This is also the reason why `Text::Iconv` can't provide platform-independent support for codeset identifiers (even if it would be nice to have).

Installation

make install

Feedback

Text::Iconv was tested on various platforms and with different iconv implementations.

If you built Text::Iconv on a platform where you needed to specify additional libraries, or where none of the codeset identifiers in the test scripts are supported, please drop me a note.

Thanks

Thanks go to all those who reported bugs and suggested features.

Michael Piotrowski <mxp@dynamalabs.de>

Found in path(s):

* /opt/cola/permits/1125674548_1611395382.31/0/libtext-iconv-perl-1-7-orig-2-tar-bz2/Text-Iconv-1.7/README

1.177 libnetfilter-contrack 1.0.7-2

1.177.1 Available under license :

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Version 2, June 1991

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```
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```

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```
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```

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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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1.178 coreutils 8.30 3ubuntu2

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1.182 libhttp-date-perl 6.05-1

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1.183 libalgorithm-diff-xs-perl 0.04-6

1.183.1 Available under license :

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abstract: Algorithm::Diff with XS core loop

author: Audrey Tang <cpan@audreyt.org>

distribution_type: module

generated_by: Module::Install version 0.67

license: perl

meta-spec:

url: <http://module-build.sourceforge.net/META-spec-v1.3.html>

version: 1.3

name: Algorithm-Diff-XS

no_index:

directory:

- inc

- t

requires:

Algorithm::Diff: 1.19

perl: 5.6.0

version: 0.01

Found in path(s):

* /opt/cola/permits/1125674286_1611416022.78/0/libalgorithm-diff-xs-perl-0-04-orig-1-tar-gz/Algorithm-Diff-XS-

0.04/META.yml

No license file was found, but licenses were detected in source scan.

NAME

Algorithm::Diff::XS - Algorithm::Diff with XS core loop

SYNOPSIS

```
# Drop-in replacement to Algorithm::Diff, but "compact_diff"  
# and C<LCSidx> will run much faster for large data sets.  
use Algorithm::Diff::XS qw( compact_diff LCSidx );
```

DESCRIPTION

This module is a simple re-packaging of Joe Schaefer's excellent but not very well-known Algorithm::LCS with a drop-in interface that simply re-uses the installed version of the Algorithm::Diff module.

Note that only the "LCSidx" function is optimized in XS at the moment, which means only "compact_diff" will get significantly faster for large data sets, while "diff" and "sdiff" will run in identical speed as "Algorithm::Diff".

BENCHMARK

	Rate	Algorithm::Diff	Algorithm::Diff::XS
Algorithm::Diff	14.7/s	--	-98%
Algorithm::Diff::XS	806/s	5402%	--

The benchmarking script is as below:

```
my @data = ([qw/a b d/ x 50], [qw/b a d c/ x 50]);  
cmpthese( 500, {  
  'Algorithm::Diff' => sub {  
    Algorithm::Diff::compact_diff(@data)  
  },  
  'Algorithm::Diff::XS' => sub {  
    Algorithm::Diff::XS::compact_diff(@data)  
  },  
});
```

SEE ALSO

Algorithm::Diff, Algorithm::LCS.

AUTHORS

Audrey Tang <cpan@audreyt.org>

COPYRIGHT

Copyright 2008 by Audrey Tang <cpan@audreyt.org>.

Contains derived code copyrighted 2003 by Joe Schaefer,

<joe+cpan@sunstarsys.com>.

This library is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

Found in path(s):

* /opt/cola/permits/1125674286_1611416022.78/0/libalgorithm-diff-xs-perl-0-04-orig-1-tar-gz/Algorithm-Diff-XS-0.04/README

No license file was found, but licenses were detected in source scan.

```
'GNU public license'          => 'gpl',      1,
'GNU lesser public license'   => 'gpl',      1,
'BSD license'                 => 'bsd',       1,
'proprietary'                 => 'proprietary', 0,
if ( $osi and $license_text =~ /All rights reserved/i ) {
warn "LEGAL WARNING: 'All rights reserved' may invalidate Open Source licenses. Consider removing it.";
```

Found in path(s):

* /opt/cola/permits/1125674286_1611416022.78/0/libalgorithm-diff-xs-perl-0-04-orig-1-tar-gz/Algorithm-Diff-XS-0.04/inc/Module/Install/Metadata.pm

No license file was found, but licenses were detected in source scan.

=head1 NAME

Algorithm::Diff::XS - Algorithm::Diff with XS core loop

=head1 SYNOPSIS

```
# Drop-in replacement to Algorithm::Diff, but "compact_diff"
# and C<LCSidx> will run much faster for large data sets.
use Algorithm::Diff::XS qw( compact_diff LCSidx );
```

=head1 DESCRIPTION

This module is a simple re-packaging of Joe Schaefer's excellent but not very well-known L<Algorithm::LCS> with a drop-in interface that simply re-uses the installed version of the L<Algorithm::Diff> module.

Note that only the C<LCSidx> function is optimized in XS at the moment, which means only C<compact_diff> will get significantly faster for large data sets, while C<diff> and C<sdiff> will run in identical speed as C<Algorithm::Diff>.

=head1 BENCHMARK

	Rate	Algorithm::Diff	Algorithm::Diff::XS
Algorithm::Diff	14.7/s	--	-98%

Algorithm::Diff::XS 806/s 5402% --

The benchmarking script is as below:

```
my @data = ([qw/a b d/ x 50], [qw/b a d c/ x 50]);
cmpthese( 500, {
  'Algorithm::Diff' => sub {
    Algorithm::Diff::compact_diff(@data)
  },
  'Algorithm::Diff::XS' => sub {
    Algorithm::Diff::XS::compact_diff(@data)
  },
});
```

=head1 SEE ALSO

L<Algorithm::Diff>, L<Algorithm::LCS>.

=head1 AUTHORS

Audrey Tang E<lt>cpan@audreyt.orgE<gt>

=head1 COPYRIGHT

Copyright 2008 by Audrey Tang E<lt>cpan@audreyt.orgE<gt>.

Contains derived code copyrighted 2003 by Joe Schaefer,
E<lt>joe+cpan@sunstarsys.comE<gt>.

This library is free software; you can redistribute it and/or modify
it under the same terms as Perl itself.

=cut

Found in path(s):

* /opt/cola/permits/1125674286_1611416022.78/0/libalgorithm-diff-xs-perl-0-04-orig-1-tar-gz/Algorithm-Diff-XS-0.04/lib/Algorithm/Diff/XS.pm

No license file was found, but licenses were detected in source scan.

/*

ppport.h -- Perl/Pollution/Portability Version 3.06_01

Automatically created by Devel::PPPort running under
perl 5.008008 on Wed Oct 22 22:33:39 2008.

Do NOT edit this file directly! -- Edit PPPort_pm.PL and the

includes in parts/inc/ instead.

Use 'perldoc ppport.h' to view the documentation below.

SKIP

=pod

=head1 NAME

ppport.h - Perl/Pollution/Portability version 3.06_01

=head1 SYNOPSIS

perl ppport.h [options] [source files]

Searches current directory for files if no [source files] are given

--help show short help

--patch=file write one patch file with changes
--copy=suffix write changed copies with suffix
--diff=program use diff program and options

--compat-version=version provide compatibility with Perl version
--cplusplus accept C++ comments

--quiet don't output anything except fatal errors
--nodiag don't show diagnostics
--nohints don't show hints
--nochanges don't suggest changes
--nofilter don't filter input files

--list-provided list provided API
--list-unsupported list unsupported API
--api-info=name show Perl API portability information

=head1 COMPATIBILITY

This version of F<ppport.h> is designed to support operation with Perl installations back to 5.003, and has been tested up to 5.9.3.

=head1 OPTIONS

=head2 --help

Display a brief usage summary.

```
=head2 --patch=I<file>
```

If this option is given, a single patch file will be created if any changes are suggested. This requires a working diff program to be installed on your system.

```
=head2 --copy=I<suffix>
```

If this option is given, a copy of each file will be saved with the given suffix that contains the suggested changes. This does not require any external programs.

If neither C<--patch> or C<--copy> are given, the default is to simply print the diffs for each file. This requires either C<Text::Diff> or a C<diff> program to be installed.

```
=head2 --diff=I<program>
```

Manually set the diff program and options to use. The default is to use C<Text::Diff>, when installed, and output unified context diffs.

```
=head2 --compat-version=I<version>
```

Tell F<ppport.h> to check for compatibility with the given Perl version. The default is to check for compatibility with Perl version 5.003. You can use this option to reduce the output of F<ppport.h> if you intend to be backward compatible only up to a certain Perl version.

```
=head2 --cplusplus
```

Usually, F<ppport.h> will detect C++ style comments and replace them with C style comments for portability reasons. Using this option instructs F<ppport.h> to leave C++ comments untouched.

```
=head2 --quiet
```

Be quiet. Don't print anything except fatal errors.

```
=head2 --nodiag
```

Don't output any diagnostic messages. Only portability alerts will be printed.

=head2 --nohints

Don't output any hints. Hints often contain useful portability notes.

=head2 --nochanges

Don't suggest any changes. Only give diagnostic output and hints unless these are also deactivated.

=head2 --nofilter

Don't filter the list of input files. By default, files not looking like source code (i.e. not *.xs, *.c, *.cc, *.cpp or *.h) are skipped.

=head2 --list-provided

Lists the API elements for which compatibility is provided by F<ppport.h>. Also lists if it must be explicitly requested, if it has dependencies, and if there are hints for it.

=head2 --list-unsupported

Lists the API elements that are known not to be supported by F<ppport.h> and below which version of Perl they probably won't be available or work.

=head2 --api-info=I<name>

Show portability information for API elements matching I<name>. If I<name> is surrounded by slashes, it is interpreted as a regular expression.

=head1 DESCRIPTION

In order for a Perl extension (XS) module to be as portable as possible across differing versions of Perl itself, certain steps need to be taken.

=over 4

=item *

Including this header is the first major one. This alone will give you access to a large part of the Perl API that hasn't been available in earlier Perl releases. Use

```
perl ppport.h --list-provided
```


to see which API elements are provided by `ppport.h`.

=item *

You should avoid using deprecated parts of the API. For example, using global Perl variables without the `C<PL_>` prefix is deprecated. Also, some API functions used to have a `C<perl_>` prefix. Using this form is also deprecated. You can safely use the supported API, as `F<ppport.h>` will provide wrappers for older Perl versions.

=item *

If you use one of a few functions that were not present in earlier versions of Perl, and that can't be provided using a macro, you have to explicitly request support for these functions by adding one or more `C<#define>`s in your source code before the inclusion of `F<ppport.h>`.

These functions will be marked `C<explicit>` in the list shown by `C<--list-provided>`.

Depending on whether your module has a single or multiple files that use such functions, you want either `C<static>` or global variants.

For a `C<static>` function, use:

```
#define NEED_function
```

For a global function, use:

```
#define NEED_function_GLOBAL
```

Note that you mustn't have more than one global request for one function in your project.

Function	Static Request	Global Request
<code>eval_pv()</code>	<code>NEED_eval_pv</code>	<code>NEED_eval_pv_GLOBAL</code>
<code>grok_bin()</code>	<code>NEED_grok_bin</code>	<code>NEED_grok_bin_GLOBAL</code>
<code>grok_hex()</code>	<code>NEED_grok_hex</code>	<code>NEED_grok_hex_GLOBAL</code>
<code>grok_number()</code>	<code>NEED_grok_number</code>	<code>NEED_grok_number_GLOBAL</code>
<code>grok_numeric_radix()</code>	<code>NEED_grok_numeric_radix</code>	<code>NEED_grok_numeric_radix_GLOBAL</code>
<code>grok_oct()</code>	<code>NEED_grok_oct</code>	<code>NEED_grok_oct_GLOBAL</code>
<code>newCONSTSUB()</code>	<code>NEED_newCONSTSUB</code>	<code>NEED_newCONSTSUB_GLOBAL</code>
<code>newRV_noinc()</code>	<code>NEED_newRV_noinc</code>	<code>NEED_newRV_noinc_GLOBAL</code>
<code>sv_2pv_nolen()</code>	<code>NEED_sv_2pv_nolen</code>	<code>NEED_sv_2pv_nolen_GLOBAL</code>
<code>sv_2pvbyte()</code>	<code>NEED_sv_2pvbyte</code>	<code>NEED_sv_2pvbyte_GLOBAL</code>
<code>sv_catpvf_mg()</code>	<code>NEED_sv_catpvf_mg</code>	<code>NEED_sv_catpvf_mg_GLOBAL</code>
<code>sv_catpvf_mg_nocontext()</code>	<code>NEED_sv_catpvf_mg_nocontext</code>	<code>NEED_sv_catpvf_mg_nocontext_GLOBAL</code>

```
sv_setpvf_mg()      NEED_sv_setpvf_mg      NEED_sv_setpvf_mg_GLOBAL
sv_setpvf_mg_nocontext()  NEED_sv_setpvf_mg_nocontext  NEED_sv_setpvf_mg_nocontext_GLOBAL
vnewSVpvf()        NEED_vnewSVpvf        NEED_vnewSVpvf_GLOBAL
```

To avoid namespace conflicts, you can change the namespace of the explicitly exported functions using the C<DPPP_NAMESPACE> macro.

Just C<#define> the macro before including C<ppport.h>:

```
#define DPPP_NAMESPACE MyOwnNamespace_
#include "ppport.h"
```

The default namespace is C<DPPP_>.

=back

The good thing is that most of the above can be checked by running F<ppport.h> on your source code. See the next section for details.

=head1 EXAMPLES

To verify whether F<ppport.h> is needed for your module, whether you should make any changes to your code, and whether any special defines should be used, F<ppport.h> can be run as a Perl script to check your source code. Simply say:

```
perl ppport.h
```

The result will usually be a list of patches suggesting changes that should at least be acceptable, if not necessarily the most efficient solution, or a fix for all possible problems.

If you know that your XS module uses features only available in newer Perl releases, if you're aware that it uses C++ comments, and if you want all suggestions as a single patch file, you could use something like this:

```
perl ppport.h --compat-version=5.6.0 --cplusplus --patch=test.diff
```

If you only want your code to be scanned without any suggestions for changes, use:

```
perl ppport.h --nochanges
```

You can specify a different C<diff> program or options, using the C<--diff> option:

```
perl ppport.h --diff='diff -C 10'
```

This would output context diffs with 10 lines of context.

To display portability information for the C<newSVpvn> function, use:

```
perl pport.h --api-info=newSVpvn
```

Since the argument to C<--api-info> can be a regular expression, you can use

```
perl pport.h --api-info=/_nomg$/
```

to display portability information for all C<_nomg> functions or

```
perl pport.h --api-info=./.
```

to display information for all known API elements.

=head1 BUGS

If this version of F<pport.h> is causing failure during the compilation of this module, please check if newer versions of either this module or C<Devel::PPPport> are available on CPAN before sending a bug report.

If F<pport.h> was generated using the latest version of C<Devel::PPPport> and is causing failure of this module, please file a bug report using the CPAN Request Tracker at L<<http://rt.cpan.org/>>.

Please include the following information:

=over 4

=item 1.

The complete output from running "perl -V"

=item 2.

This file.

=item 3.

The name and version of the module you were trying to build.

=item 4.

A full log of the build that failed.

=item 5.

Any other information that you think could be relevant.

=back

For the latest version of this code, please get the C<Devel::PPort> module from CPAN.

=head1 COPYRIGHT

Version 3.x, Copyright (c) 2004-2005, Marcus Holland-Moritz.

Version 2.x, Copyright (C) 2001, Paul Marquess.

Version 1.x, Copyright (C) 1999, Kenneth Albanowski.

This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

=head1 SEE ALSO

See L<Devel::PPort>.

=cut

use strict;

```
my %opt = (  
  quiet  => 0,  
  diag   => 1,  
  hints  => 1,  
  changes => 1,  
  cplusplus => 0,  
  filter => 1,  
);
```

```
my($ppport) = $0 =~ /([\w.]+)/;  
my $LF = '(?:\r\n|[\r\n])'; # line feed  
my $HS = "[\t]";          # horizontal whitespace
```

```
eval {  
  require Getopt::Long;  
  Getopt::Long::GetOptions(\%opt, qw(  
    help quiet diag! filter! hints! changes! cplusplus  
    patch=s copy=s diff=s compat-version=s
```

```

list-provided list-unsupported api-info=s
)) or usage();
};

if ($@ and grep /^-/, @ARGV) {
    usage() if "@ARGV" =~ /^--?h(?:elp)?$/;
    die "Getopt::Long not found. Please don't use any options.\n";
}

usage() if $opt{help};

if (exists $opt{'compat-version'}) {
    my($r,$v,$s) = eval { parse_version($opt{'compat-version'}) };
    if ($@) {
        die "Invalid version number format: '$opt{'compat-version'}'\n";
    }
    die "Only Perl 5 is supported\n" if $r != 5;
    die "Invalid version number: $opt{'compat-version'}\n" if $v >= 1000 || $s >= 1000;
    $opt{'compat-version'} = sprintf "%d.%03d%03d", $r, $v, $s;
}
else {
    $opt{'compat-version'} = 5;
}

# Never use C comments in this file!!!!
my $ccs = '/.*';
my $cce = '.*.'/;
my $rcs = quotemeta $ccs;
my $rce = quotemeta $cce;

my %API = map { /^(\w+)\|([^\|]*)\|([^\|]*)\|(\w*)$/
    ? ( $1 => {
        ($2          ? ( base   => $2 ) : ()),
        ($3          ? ( todo   => $3 ) : ()),
        (index($4, 'v') >= 0 ? ( varargs => 1 ) : ()),
        (index($4, 'p') >= 0 ? ( provided => 1 ) : ()),
        (index($4, 'n') >= 0 ? ( nothxarg => 1 ) : ()),
    } )
    : die "invalid spec: $_" } qw(
AvFILLp|5.004050||p
AvFILL|||
CLASS|||n
CX_CURPAD_SAVE|||
CX_CURPAD_SV|||
CopFILEAV|5.006000||p
CopFILEGV_set|5.006000||p
CopFILEGV|5.006000||p
CopFILESV|5.006000||p

```

CopFILE_set|5.006000||p
CopFILE|5.006000||p
CopSTASHPV_set|5.006000||p
CopSTASHPV|5.006000||p
CopSTASH_eq|5.006000||p
CopSTASH_set|5.006000||p
CopSTASH|5.006000||p
CopyD|5.009002||p
Copy|||
CvPADLIST|||
CvSTASH|||
CvWEAKOUTSIDE|||
DEFSV|5.004050||p
END_EXTERN_C|5.005000||p
ENTER|||
ERRSV|5.004050||p
EXTEND|||
EXTERN_C|5.005000||p
FREETMPS|||
GIMME_V|5.004000|n
GIMME|||n
GROK_NUMERIC_RADIX|5.007002||p
G_ARRAY|||
G_DISCARD|||
G_EVAL|||
G_NOARGS|||
G_SCALAR|||
G_VOID|5.004000|
GetVars|||
GvSV|||
Gv_AMupdate|||
HEf_SVKEY|5.004000|
HeHASH|5.004000|
HeKEY|5.004000|
HeKLEN|5.004000|
HePV|5.004000|
HeSVKEY_force|5.004000|
HeSVKEY_set|5.004000|
HeSVKEY|5.004000|
HeVAL|5.004000|
HvNAME|||
INT2PTR|5.006000||p
IN_LOCALE_COMPILETIME|5.007002||p
IN_LOCALE_RUNTIME|5.007002||p
IN_LOCALE|5.007002||p
IN_PERL_COMPILETIME|5.008001||p
IS_NUMBER_GREATER_THAN_UV_MAX|5.007002||p
IS_NUMBER_INFINITY|5.007002||p

IS_NUMBER_IN_UV|5.007002||p
IS_NUMBER_NAN|5.007003||p
IS_NUMBER_NEG|5.007002||p
IS_NUMBER_NOT_INT|5.007002||p
IVSIZE|5.006000||p
IVTYPE|5.006000||p
IVdf|5.006000||p
LEAVE|||
LVRET|||
MARK|||
MY_CXT_CLONE|5.009002||p
MY_CXT_INIT|5.007003||p
MY_CXT|5.007003||p
MoveD|5.009002||p
Move|||
NEWSV|||
NOOP|5.005000||p
NUM2PTR|5.006000||p
NVTYPE|5.006000||p
NVef|5.006001||p
NVff|5.006001||p
NVgf|5.006001||p
Newc|||
Newz|||
New|||
Nullav|||
Nullch|||
Nullcv|||
Nullhv|||
Nullsv|||
ORIGMARK|||
PAD_BASE_SV|||
PAD_CLONE_VARS|||
PAD_COMPNAME_FLAGS|||
PAD_COMPNAME_GEN_set|||
PAD_COMPNAME_GEN|||
PAD_COMPNAME_OURSTASH|||
PAD_COMPNAME_PV|||
PAD_COMPNAME_TYPE|||
PAD_RESTORE_LOCAL|||
PAD_SAVE_LOCAL|||
PAD_SAVE_SETNULLPAD|||
PAD_SETSV|||
PAD_SET_CUR_NOSAVE|||
PAD_SET_CUR|||
PAD_SV1|||
PAD_SV|||
PERL_BCDVERSION|5.009003||p

PERL_GCC_BRACE_GROUPS_FORBIDDEN|5.008001||p
PERL_INT_MAX|5.004000||p
PERL_INT_MIN|5.004000||p
PERL_LONG_MAX|5.004000||p
PERL_LONG_MIN|5.004000||p
PERL_MAGIC_arylen|5.007002||p
PERL_MAGIC_backref|5.007002||p
PERL_MAGIC_bm|5.007002||p
PERL_MAGIC_collxfrm|5.007002||p
PERL_MAGIC_dbfile|5.007002||p
PERL_MAGIC_dbline|5.007002||p
PERL_MAGIC_defelem|5.007002||p
PERL_MAGIC_envelem|5.007002||p
PERL_MAGIC_env|5.007002||p
PERL_MAGIC_ext|5.007002||p
PERL_MAGIC_fm|5.007002||p
PERL_MAGIC_glob|5.007002||p
PERL_MAGIC_isaelem|5.007002||p
PERL_MAGIC_isa|5.007002||p
PERL_MAGIC_mutex|5.007002||p
PERL_MAGIC_nkeys|5.007002||p
PERL_MAGIC_overload_elem|5.007002||p
PERL_MAGIC_overload_table|5.007002||p
PERL_MAGIC_overload|5.007002||p
PERL_MAGIC_pos|5.007002||p
PERL_MAGIC_qr|5.007002||p
PERL_MAGIC_regdata|5.007002||p
PERL_MAGIC_regdatum|5.007002||p
PERL_MAGIC_regex_global|5.007002||p
PERL_MAGIC_shared_scalar|5.007003||p
PERL_MAGIC_shared|5.007003||p
PERL_MAGIC_sigelem|5.007002||p
PERL_MAGIC_sig|5.007002||p
PERL_MAGIC_substr|5.007002||p
PERL_MAGIC_sv|5.007002||p
PERL_MAGIC_taint|5.007002||p
PERL_MAGIC_tiedelem|5.007002||p
PERL_MAGIC_tiedscalar|5.007002||p
PERL_MAGIC_tied|5.007002||p
PERL_MAGIC_utf8|5.008001||p
PERL_MAGIC_uvar_elem|5.007003||p
PERL_MAGIC_uvar|5.007002||p
PERL_MAGIC_vec|5.007002||p
PERL_MAGIC_vstring|5.008001||p
PERL_QUAD_MAX|5.004000||p
PERL_QUAD_MIN|5.004000||p
PERL_REVISION|5.006000||p
PERL_SCAN_ALLOW_UNDERSCORES|5.007003||p

PERL_SCAN_DISALLOW_PREFIX|5.007003||p
PERL_SCAN_GREATER_THAN_UV_MAX|5.007003||p
PERL_SCAN_SILENT_ILLDIGIT|5.008001||p
PERL_SHORT_MAX|5.004000||p
PERL_SHORT_MIN|5.004000||p
PERL_SUBVERSION|5.006000||p
PERL_UCHAR_MAX|5.004000||p
PERL_UCHAR_MIN|5.004000||p
PERL_UINT_MAX|5.004000||p
PERL_UINT_MIN|5.004000||p
PERL_ULONG_MAX|5.004000||p
PERL_ULONG_MIN|5.004000||p
PERL_UNUSED_DECL|5.007002||p
PERL_UQUAD_MAX|5.004000||p
PERL_UQUAD_MIN|5.004000||p
PERL_USHORT_MAX|5.004000||p
PERL_USHORT_MIN|5.004000||p
PERL_VERSION|5.006000||p
PL_DBsingle|||pn
PL_DBsub|||pn
PL_DBtrace|||n
PL_Sv|5.005000||p
PL_compiling|5.004050||p
PL_copline|5.005000||p
PL_curcop|5.004050||p
PL_curstash|5.004050||p
PL_debstash|5.004050||p
PL_defgv|5.004050||p
PL_diehook|5.004050||p
PL_dirty|5.004050||p
PL_dowarn|||pn
PL_errgv|5.004050||p
PL_hexdigit|5.005000||p
PL_hints|5.005000||p
PL_last_in_gv|||n
PL_modglobal||5.005000|n
PL_na|5.004050||pn
PL_no_modify|5.006000||p
PL_ofs_sv|||n
PL_perl_destruct_level|5.004050||p
PL_perldb|5.004050||p
PL_ppaddr|5.006000||p
PL_rsfilters|5.004050||p
PL_rsfpl|5.004050||p
PL_rs|||n
PL_stack_base|5.004050||p
PL_stack_sp|5.004050||p
PL_stdingv|5.004050||p

PL_sv_arenaroot|5.004050||p
PL_sv_no|5.004050||pn
PL_sv_undef|5.004050||pn
PL_sv_yes|5.004050||pn
PL_tainted|5.004050||p
PL_tainting|5.004050||p
POPi|||n
POPI|||n
POPn|||n
POPpbytex||5.007001|n
POPpx||5.005030|n
POPp|||n
POPs|||n
PTR2IV|5.006000||p
PTR2NV|5.006000||p
PTR2UV|5.006000||p
PTR2ul|5.007001||p
PTRV|5.006000||p
PUSHMARK|||
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);

if (exists $opt{ 'list-unsupported' }) {
    my $f;
    for $f (sort { lc $a cmp lc $b } keys %API) {
        next unless $API{$f}{todo};
        print "$f ", '!x(40-length($f)), " ", format_version($API{$f}{todo}), "\n";
    }
    exit 0;
}

# Scan for possible replacement candidates

my(%replace, %need, %hints, %depends);
my $replace = 0;
my $hint = "";

while (<DATA>) {
    if ($hint) {
        if (m{^\s*\*\s(.*?)\s*$}) {
            $hints{$hint} ||= ""; # suppress warning with older perls
            $hints{$hint} .= "$1\n";
        }
        else {
            $hint = "";
        }
    }
    $hint = $1 if m{^\s*$rccs\sHint:\s+(\w+)\s*$};

    $replace = $1 if m{^\s*$rccs\s+Replace:\s+(\d+)\s+$rccs\s*$};
    $replace{$2} = $1 if $replace and m{^\s*\#\s*define\s+(\w+)(?:\s+([\^]*))?\s+(\w+)};
    $replace{$2} = $1 if m{^\s*\#\s*define\s+(\w+)(?:\s+([\^]*))?\s+(\w+).*\s*$rccs\s+Replace\s+$rccs};
    $replace{$1} = $2 if m{^\s*$rccs\s+Replace (\w+) with (\w+)\s+$rccs\s*$};
}

```

```

if (m{^\s*$rccs\s+(\w+)\s+depends\s+on\s+(\w+(\s*,\s*\w+*)\s+$rcces*$}) {
    push @{$depends{$1}}, map { s/\s+//g; $_ } split /,/, $2;
}

$need{$1} = 1 if m{^#\s+defined\(\NEED_\(\w+)(?:_GLOBAL)?\)};
}

if (exists $opt{'api-info'}) {
    my $f;
    my $count = 0;
    my $match = $opt{'api-info'} =~ m!^(.*)/$! ? $1 : "\Q$opt{'api-info'}\E$";
    for $f (sort { lc $a cmp lc $b } keys %API) {
        next unless $f =~ /$match/;
        print "\n=== $f ===\n\n";
        my $info = 0;
        if ($API{$f}{base} || $API{$f}{todo}) {
            my $base = format_version($API{$f}{base} || $API{$f}{todo});
            print "Supported at least starting from perl-$base.\n";
            $info++;
        }
        if ($API{$f}{provided}) {
            my $todo = $API{$f}{todo} ? format_version($API{$f}{todo}) : "5.003";
            print "Support by $ppport provided back to perl-$todo.\n";
            print "Support needs to be explicitly requested by NEED_$.f.\n" if exists $need{$f};
            print "Depends on: ", join(', ', @{$depends{$f}}), ".\n" if exists $depends{$f};
            print "$hints{$f}" if exists $hints{$f};
            $info++;
        }
        unless ($info) {
            print "No portability information available.\n";
        }
        $count++;
    }
    if ($count > 0) {
        print "\n";
    }
    else {
        print "Found no API matching '$opt{'api-info'}'.\n";
    }
    exit 0;
}

if (exists $opt{'list-provided'}) {
    my $f;
    for $f (sort { lc $a cmp lc $b } keys %API) {
        next unless $API{$f}{provided};
        my @flags;
        push @flags, 'explicit' if exists $need{$f};
    }
}

```



```

push @flags, 'depend' if exists $depends{$f};
push @flags, 'hint' if exists $hints{$f};
my $flags = @flags ? ' [' . join(', ', @flags) . ' ] : ";
print "$f$flags\n";
}
exit 0;
}

my @files;
my @srcext = qw( xs c h cc cpp );
my $srcext = join '|', @srcext;

if (@ARGV) {
my %seen;
@files = grep { -f && !exists $seen{$_} } map { glob $_ } @ARGV;
}
else {
eval {
require File::Find;
File::Find::find(sub {
$File::Find::name =~ /\.(($srcext)$/i
and push @files, $File::Find::name;
}, '.');
};
if ($?) {
@files = map { glob ".*$_" } @srcext;
}
}

if (!@ARGV || $opt{filter}) {
my(@in, @out);
my %xsc = map { /\.(.*)\.xs$/ ? ("1.c" => 1, "1.cc" => 1) : () } @files;
for (@files) {
my $out = exists $xsc{$_} || /\bQ$ppport\E$/i || /\.(($srcext)$/i;
push @ { $out ? \@out : \@in }, $_;
}
if (@ARGV && @out) {
warning("Skipping the following files (use --nofilter to avoid this):\n| ", join "\n| ", @out);
}
@files = @in;
}

unless (@files) {
die "No input files given!\n";
}

my(%files, %global, %revreplace);
%revreplace = reverse %replace;

```

```

my $filename;
my $patch_opened = 0;

for $filename (@files) {
    unless (open IN, "<$filename") {
        warn "Unable to read from $filename: $!\n";
        next;
    }

    info("Scanning $filename ...");

    my $c = do { local $/; <IN> };
    close IN;

    my %file = (orig => $c, changes => 0);

    # temporarily remove C comments from the code
    my @ccom;
    $c =~ s{
        (
            [^"]/+
            |
            (?:"[^\\"]*(?:\\.["\])*" [^"]/*)+
            |
            (?:'[^\\"]*(?:\\.["\])*' [^']*/*)+
        )
        |
        (/ (?
            \*[^\*]*\*+(?:[^\$ccs][^\*]*\*+)* /
            |
            /[\r\n]*
        ))
    }{
        defined $2 and push @ccom, $2;
        defined $1 ? $1 : "$ccs$#ccom$cce";
    }egsx;

    $file{ccom} = \@ccom;
    $file{code} = $c;
    $file{has_inc_ppport} = ($c =~ /#.include.*\Q$ppport\E/);

    my $func;

    for $func (keys %API) {
        my $match = $func;
        $match .= "|$revreplace{$func}" if exists $revreplace{$func};
        if ($c =~ /\b(?:Perl_)?($match)\b/) {
            $file{uses_replace}{$1}++ if exists $revreplace{$func} && $1 eq $revreplace{$func};
        }
    }
}

```

```

$file{uses_Perl}{$func}++ if $c =~ /\bPerl_$func\b/;
if (exists $API{$func}{provided}) {
  if (!exists $API{$func}{base} || $API{$func}{base} > $opt{'compat-version'}) {
    $file{uses}{$func}++;
    my @deps = rec_depend($func);
    if (@deps) {
      $file{uses_deps}{$func} = \@deps;
      for (@deps) {
        $file{uses}{$_} = 0 unless exists $file{uses}{$_};
      }
    }
    for ($func, @deps) {
      if (exists $need{$_}) {
        $file{needs}{$_} = 'static';
      }
    }
  }
}
if (exists $API{$func}{todo} && $API{$func}{todo} > $opt{'compat-version'}) {
  if ($c =~ /\b$func\b/) {
    $file{uses_todo}{$func}++;
  }
}
}

while ($c =~ /^$HS*#$HS*define$HS+(NEED_(\w+?)(_GLOBAL)?)\b/mg) {
  if (exists $need{$2}) {
    $file{defined $3 ? 'needed_global' : 'needed_static'}{$2}++;
  }
  else {
    warning("Possibly wrong #define $1 in $filename");
  }
}

for (qw(uses needs uses_todo needed_global needed_static)) {
  for $func (keys %{$file{$_}}) {
    push @{$global{$_}{$func}}, $filename;
  }
}

$files{$filename} = \%file;
}

# Globally resolve NEED_'s
my $need;
for $need (keys %{$global{needs}}) {
  if (@{$global{needs}{$need}} > 1) {

```

```

my @targets = @{$global{needs}{$need}};
my @t = grep $files{$_}{needed_global}{$need}, @targets;
@targets = @t if @t;
@t = grep /\.xs$/i, @targets;
@targets = @t if @t;
my $target = shift @targets;
$files{$target}{needs}{$need} = 'global';
for (@{$global{needs}{$need}}) {
    $files{$_}{needs}{$need} = 'extern' if $_ ne $target;
}
}
}

for $filename (@files) {
exists $files{$filename} or next;

info("==== Analyzing $filename ====");

my %file = %{$files{$filename}};
my $func;
my $c = $file{code};

for $func (sort keys %{$file{uses_Perl}}) {
if ($API{$func}{varargs}) {
my $changes = ($c =~ s{\b(Perl_$func\s*(\s*)(?!aTHX_?)()\s*)})
                { $1 . ($2 eq ' ' ? 'aTHX' : 'aTHX_ ') . $2 }ge);
if ($changes) {
warning("Doesn't pass interpreter argument aTHX to Perl_$func");
$file{changes} += $changes;
}
}
else {
warning("Uses Perl_$func instead of $func");
$file{changes} += ($c =~ s{\bPerl_$func(\s*)((\s*aTHX_?)\s*)}
                        {$func$1}g);
}
}

for $func (sort keys %{$file{uses_replace}}) {
warning("Uses $func instead of $replace{$func}");
$file{changes} += ($c =~ s{\b$func\b/$replace{$func}/g});
}

for $func (sort keys %{$file{uses}}) {
next unless $file{uses}{$func}; # if it's only a dependency
if (exists $file{uses_deps}{$func}) {
diag("Uses $func, which depends on ", join(', ', @{$file{uses_deps}{$func}}));
}
}

```

```

elseif (exists $replace{$func}) {
    warning("Uses $func instead of $replace{$func}");
    $file{changes} += ($c =~ s/\b$func\b/$replace{$func}/g);
}
else {
    diag("Uses $func");
}
hint($func);
}

for $func (sort keys %{$file{uses_todo}}) {
    warning("Uses $func, which may not be portable below perl ",
        format_version($API{$func}{todo}));
}

for $func (sort keys %{$file{needed_static}}) {
    my $message = "";
    if (not exists $file{uses}{$func}) {
        $message = "No need to define NEED_$func if $func is never used";
    }
    elseif (exists $file{needs}{$func} && $file{needs}{$func} ne 'static') {
        $message = "No need to define NEED_$func when already needed globally";
    }
    if ($message) {
        diag($message);
        $file{changes} += ($c =~ s/^\$HS*#\$HS*define$HS+NEED_$func\b.*$LF//mg);
    }
}

for $func (sort keys %{$file{needed_global}}) {
    my $message = "";
    if (not exists $global{uses}{$func}) {
        $message = "No need to define NEED_${func}_GLOBAL if $func is never used";
    }
    elseif (exists $file{needs}{$func}) {
        if ($file{needs}{$func} eq 'extern') {
            $message = "No need to define NEED_${func}_GLOBAL when already needed globally";
        }
        elseif ($file{needs}{$func} eq 'static') {
            $message = "No need to define NEED_${func}_GLOBAL when only used in this file";
        }
    }
    if ($message) {
        diag($message);
        $file{changes} += ($c =~ s/^\$HS*#\$HS*define$HS+NEED_${func}_GLOBAL\b.*$LF//mg);
    }
}

```

```

$file{needs_inc_ppport} = keys % {$file{uses}};

if ($file{needs_inc_ppport}) {
    my $pp = "";

    for $func (sort keys % {$file{needs}}) {
        my $type = $file{needs}{$func};
        next if $type eq 'extern';
        my $suffix = $type eq 'global' ? '_GLOBAL' : "";
        unless (exists $file{"needed_$type"}{$func}) {
            if ($type eq 'global') {
                diag("Files [@$global{needs}{$func}] need $func, adding global request");
            }
            else {
                diag("File needs $func, adding static request");
            }
            $pp .= "#define NEED_$func$suffix\n";
        }
    }
}

if ($pp && ($c =~ s/^(?=$HS*#$HS*define$HS+NEED_\w+)/$pp/m)) {
    $pp = "";
    $file{changes}++;
}

unless ($file{has_inc_ppport}) {
    diag("Needs to include '$ppport'");
    $pp .= qq(#include "$ppport"\n)
}

if ($pp) {
    $file{changes} += ($c =~ s/^(($HS*#$HS*define$HS+NEED_\w+.*?)^/$1$pp/ms)
        || ($c =~ s/^(?=$HS*#$HS*include.*\Q$ppport\E)/$pp/m)
        || ($c =~ s/^(($HS*#$HS*include.*XSUB.*\s*?)^/$1$pp/m)
        || ($c =~ s/^\Q$pp/);
}
}

else {
    if ($file{has_inc_ppport}) {
        diag("No need to include '$ppport'");
        $file{changes} += ($c =~ s/^(($HS*?#$HS*include.*\Q$ppport\E.*?)$LF//m);
    }
}

# put back in our C comments
my $ix;
my $cppc = 0;
my @ccom = @{$file{ccom}};

```

```

for $ix (0 .. $#ccom) {
  if (!$opt{cplusplus} && $ccom[$ix] =~ s!^/!!) {
    $cppc++;
    $file{changes} += $c =~ s/$rccs$ix$rcce/$ccs$ccom[$ix] $cce/;
  }
  else {
    $c =~ s/$rccs$ix$rcce/$ccom[$ix]/;
  }
}

if ($cppc) {
  my $s = $cppc != 1 ? 's' : '';
  warning("Uses $cppc C++ style comment$s, which is not portable");
}

if ($file{changes}) {
  if (exists $opt{copy}) {
    my $newfile = "$filename$opt{copy}";
    if (-e $newfile) {
      error("$newfile' already exists, refusing to write copy of '$filename'");
    }
    else {
      local *F;
      if (open F, ">$newfile") {
        info("Writing copy of '$filename' with changes to '$newfile'");
        print F $c;
        close F;
      }
      else {
        error("Cannot open '$newfile' for writing: $!");
      }
    }
  }
  elsif (exists $opt{patch} || $opt{changes}) {
    if (exists $opt{patch}) {
      unless ($patch_opened) {
        if (open PATCH, ">$opt{patch}") {
          $patch_opened = 1;
        }
        else {
          error("Cannot open '$opt{patch}' for writing: $!");
          delete $opt{patch};
          $opt{changes} = 1;
          goto fallback;
        }
      }
    }
    mydiff(\*PATCH, $filename, $c);
  }
}

```

```

    else {
fallback:
    info("Suggested changes:");
    mydiff(\*STDOUT, $filename, $c);
    }
    }
    else {
    my $s = $file{changes} == 1 ? " : 's';
    info("$file{changes} potentially required change$s detected");
    }
    }
    else {
    info("Looks good");
    }
    }

```

```
close PATCH if $patch_opened;
```

```
exit 0;
```

```

sub mydiff
{
    local *F = shift;
    my($file, $str) = @_ ;
    my $diff;

    if (exists $opt{diff}) {
        $diff = run_diff($opt{diff}, $file, $str);
    }

    if (!defined $diff and can_use("Text::Diff")) {
        $diff = Text::Diff::diff($file, \$str, { STYLE => 'Unified' });
        $diff = <<HEADER . $diff;
    --- $file
    +++ $file.patched
    HEADER
    }

    if (!defined $diff) {
        $diff = run_diff('diff -u', $file, $str);
    }

    if (!defined $diff) {
        $diff = run_diff('diff', $file, $str);
    }

    if (!defined $diff) {

```



```

    error("Cannot generate a diff. Please install Text::Diff or use --copy.");
    return;
}

print F $diff;

}

sub run_diff
{
    my($prog, $file, $str) = @_;
    my $tmp = 'dppptemp';
    my $suf = 'aaa';
    my $diff = "";
    local *F;

    while (-e "$tmp.$suf") { $suf++ }
    $tmp = "$tmp.$suf";

    if (open F, ">$tmp") {
        print F $str;
        close F;

        if (open F, "$prog $file $tmp |") {
            while (<F>) {
                s/^Q$tmp\E/$file.patched/;
                $diff .= $_;
            }
            close F;
            unlink $tmp;
            return $diff;
        }

        unlink $tmp;
    }
    else {
        error("Cannot open '$tmp' for writing: $!");
    }

    return undef;
}

sub can_use
{
    eval "use @_";
    return $@ eq "";
}

```

```

sub rec_depend
{
my $func = shift;
my %seen;
return () unless exists $depends{$func};
grep !$seen{$_}++, map { ($_, rec_depend($_)) } @{$depends{$func}};
}

```

```

sub parse_version
{
my $ver = shift;

if ($ver =~ /^(d+)\.(d+)\.(d+)$/) {
return ($1, $2, $3);
}
elsif ($ver !~ /^(d+)\.[d_]+$/) {
die "cannot parse version '$ver'\n";
}

```

```
$ver =~ s/_//g;
```

```
$ver =~ s/$/000000/;
```

```
my($r,$v,$s) = $ver =~ /(\d+)\.(\d{3})(\d{3})/;
```

```
$v = int $v;
```

```
$s = int $s;
```

```

if ($r < 5 || ($r == 5 && $v < 6)) {
if ($s % 10) {
die "cannot parse version '$ver'\n";
}
}

```

```
return ($r, $v, $s);
```

```
}
```

```
sub format_version
```

```
{
```

```
my $ver = shift;
```

```
$ver =~ s/$/000000/;
```

```
my($r,$v,$s) = $ver =~ /(\d+)\.(\d{3})(\d{3})/;
```

```
$v = int $v;
```

```
$s = int $s;
```

```

if ($r < 5 || ($r == 5 && $v < 6)) {
if ($s % 10) {

```

```

    die "invalid version '$ver\n";
}
$s /= 10;

$ver = sprintf "%d.%03d", $r, $v;
$s > 0 and $ver .= sprintf "_%02d", $s;

return $ver;
}

return sprintf "%d.%d.%d", $r, $v, $s;
}

sub info
{
    $opt{quiet} and return;
    print @_, "\n";
}

sub diag
{
    $opt{quiet} and return;
    $opt{diag} and print @_, "\n";
}

sub warning
{
    $opt{quiet} and return;
    print "*** ", @_, "\n";
}

sub error
{
    print "*** ERROR: ", @_, "\n";
}

my %given_hints;
sub hint
{
    $opt{quiet} and return;
    $opt{hints} or return;
    my $func = shift;
    exists $hints{$func} or return;
    $given_hints{$func}++ and return;
    my $hint = $hints{$func};
    $hint =~ s/^/ /mg;
    print " --- hint for $func ---\n", $hint;
}

```

```

sub usage
{
my($usage) = do { local(@ARGV,$/)=($0); <> } =~ /^=head\d$HS+SYNOPSIS\s*^(.*?)\s*^=/ms;
my %M = ( 'T' => '*' );
$usage =~ s/^\s*perl\s+\S+/$^X $0/;
$usage =~ s/([A-Z])<([>]+)>/M{$1}$2M{$1}/g;

print <<ENDUSAGE;

Usage: $usage

See perldoc $0 for details.

ENDUSAGE

exit 2;
}

__DATA__
*/

Found in path(s):
* /opt/cola/permits/1125674286_1611416022.78/0/libalgorithm-diff-xs-perl-0-04-orig-1-tar-gz/Algorithm-Diff-XS-0.04/ppport.h

```

1.184 less 551-1ubuntu0.1

1.184.1 Available under license :

Less License

Less

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```
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1.185 pcre 8.39-12build1

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THE BASIC LIBRARY FUNCTIONS

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1.186 fonts-ubuntu 0.83-4ubuntu1

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Ubuntu Font Family Licensing FAQ

Stylistic Foundations

The Ubuntu Font Family is the first time that a libre typeface has been designed professionally and explicitly with the intent of developing a public and long-term community-based development process.

When developing an open project, it is generally necessary to have firm foundations: a font needs to maintain harmony within itself even across many type designers and writing systems. For the [1]Ubuntu Font Family, the process has been guided with the type foundry Dalton Maag setting the project up with firm stylistic foundation covering several left-to-right scripts: Latin, Greek and Cyrillic; and right-to-left scripts: Arabic and Hebrew (due in 2011).

With this starting point the community will, under the supervision of [2]Canonical and [3]Dalton Maag, be able to build on the existing font sources to expand their character coverage. Ultimately everybody will be able to use the Ubuntu Font Family in their own written languages across the whole of Unicode (and this will take some time!).

Licensing

The licence chosen by any free software project is one of the foundational decisions that sets out how derivatives and contributions can occur, and in turn what kind of community will form around the project.

Using a licence that is compatible with other popular licences is a powerful constraint because of the [4]network effects: the freedom to share improvements between projects allows free software to reach high-quality over time. Licence-proliferation leads to many incompatible licences, undermining the network effect, the freedom to share and ultimately making the libre movement that Ubuntu is a part of less effective. For all kinds of software, writing a new licence is not to be taken lightly and is a choice that needs to be thoroughly justified if this path is taken.

Today it is not clear to Canonical what the best licence for a font project like the Ubuntu Font Family is: one that starts life designed by professionals and continues with the full range of community development, from highly commercial work in new directions to curious beginners' experimental contributions. The fast and steady pace of the Ubuntu release cycle means that an interim libre licence has been necessary to enable the consideration of the font family as part of Ubuntu 10.10 operating system release.

Before taking any decision on licensing, Canonical as sponsor and backer of the project has reviewed the many existing licenses used for libre/open fonts and engaged the stewards of the most popular licenses in detailed discussions. The current interim licence is the first step

in progressing the state-of-the-art in licensing for libre/open font development.

The public discussion must now involve everyone in the (comparatively new) area of the libre/open font community; including font users, software freedom advocates, open source supporters and existing libre font developers. Most importantly, the minds and wishes of professional type designers considering entering the free software business community must be taken on board.

Conversations and discussion has taken place, privately, with individuals from the following groups (generally speaking personally on behalf of themselves, rather than their affiliations):

- * [5]SIL International
- * [6]Open Font Library
- * [7]Software Freedom Law Center
- * [8]Google Font API

Document embedding

One issue highlighted early on in the survey of existing font licences is that of document embedding. Almost all font licences, both free and unfree, permit embedding a font into a document to a certain degree. Embedding a font with other works that make up a document creates a "combined work" and copyleft would normally require the whole document to be distributed under the terms of the font licence. As beautiful as the font might be, such a licence makes a font too restrictive for useful general purpose digital publishing.

The situation is not entirely unique to fonts and is encountered also with tools such as GNU Bison: a vanilla GNU GPL licence would require anything generated with Bison to be made available under the terms of the GPL as well. To avoid this, Bison is [9]published with an additional permission to the GPL which allows the output of Bison to be made available under any licence.

The conflict between licensing of fonts and licensing of documents, is addressed in two popular libre font licences, the SIL OFL and GNU GPL:

- * [10]SIL Open Font Licence: When OFL fonts are embedded in a document, the OFL's terms do not apply to that document. (See [11]OFL-FAQ for details.
- * [12]GPL Font Exception: The situation is resolved by granting an additional permission to allow documents to not be covered by the GPL. (The exception is being reviewed).

The Ubuntu Font Family must also resolve this conflict, ensuring that if the font is embedded and then extracted it is once again clearly under the terms of its libre licence.

Long-term licensing

Those individuals involved, especially from Ubuntu and Canonical, are interested in finding a long-term libre licence that finds broad favour across the whole libre/open font community. The deliberation during the past months has been on how to licence the Ubuntu Font Family in the short-term, while knowingly encouraging everyone to pursue a long-term goal.

* [13] Copyright assignment will be required so that the Ubuntu Font Family's licensing can be progressively expanded to one (or more) licences, as best practice continues to evolve within the libre/open font community.

* Canonical will support and fund legal work on libre font licensing. It is recognised that the cost and time commitments required are likely to be significant. We invite other capable parties to join in supporting this activity.

The GPL version 3 (GPLv3) will be used for Ubuntu Font Family build scripts and the CC-BY-SA for associated documentation and non-font content: all items which do not end up embedded in general works and documents.

Ubuntu Font Licence

For the short-term only, the initial licence is the [14] Ubuntu Font Licence (UFL). This is loosely inspired from the work on the SIL OFL 1.1, and seeks to clarify the issues that arose during discussions and legal review, from the perspective of the backers, Canonical Ltd. Those already using established licensing models such as the GPL, OFL or Creative Commons licensing should have no worries about continuing to use them. The Ubuntu Font Licence (UFL) and the SIL Open Font Licence (SIL OFL) are not identical and should not be confused with each other. Please read the terms precisely. The UFL is only intended as an interim license, and the overriding aim is to support the creation of a more suitable and generic libre font licence. As soon as such a licence is developed, the Ubuntu Font Family will migrate to it made possible by copyright assignment in the interim. Between the OFL 1.1, and the UFL 1.0, the following changes are made to produce the Ubuntu Font Licence:

* Clarification:

1. Document embedding (see [15] embedding section above).
2. Apply at point of distribution, instead of receipt
3. Author vs. copyright holder disambiguation (type designers are authors, with the copyright holder normally being the funder)
4. Define "Propagate" (for internationalisation, similar to the GPLv3)
5. Define "Substantially Changed"

6. Trademarks are explicitly not transferred
7. Refine renaming requirement

Streamlining:

8. Remove "not to be sold separately" clause
9. Remove "Reserved Font Name(s)" declaration

A visual demonstration of how these points were implemented can be found in the accompanying coloured diff between SIL OFL 1.1 and the Ubuntu Font Licence 1.0: [16]ofl-1.1-ufl-1.0.diff.html

References

1. <http://font.ubuntu.com/>
 2. <http://www.canonical.com/>
 3. <http://www.daltonmaag.com/>
 4. http://en.wikipedia.org/wiki/Network_effect
 5. <http://scripts.sil.org/>
 6. <http://openfontlibrary.org/>
 7. <http://www.softwarefreedom.org/>
 8. <http://code.google.com/webfonts>
 9. <http://www.gnu.org/licenses/gpl-faq.html#CanIUseGPLToolsForNF>
 10. http://scripts.sil.org/OFL_web
 11. http://scripts.sil.org/OFL-FAQ_web
 12. <http://www.gnu.org/licenses/gpl-faq.html#FontException>
 13. <https://launchpad.net/~uff-contributors>
 14. <http://font.ubuntu.com/ufl/ubuntu-font-licence-1.0.txt>
 15. <http://font.ubuntu.com/ufl/FAQ.html#embedding>
 16. <http://font.ubuntu.com/ufl/ofl-1.1-ufl-1.0.diff.html>
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1.187 fdisk 2.34.0

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WEV @@ WEV[B "1

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1.188 gpm 1.20.7-5

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1.189 libjson-xs-perl 4.020-1build1

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1.190 sysv-init 2.96-2.1ubuntu1

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1.191 python-zipp 1.0.0-1

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1.192 jinja2 2.10.1-2

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1.193 liblocale-gettext-perl 1.07-4

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Upstream-Name: popt

Upstream-Contact: Jeff Johnson <jbj@rpm5.org>

Source: <http://rpm5.org/files/popt/>

Comment:

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1.196 acl 2.2.53-6

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```
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```
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That's all there is to it!

1.197 log-rotate 3.14.0-4ubuntu3

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5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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```

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```

```
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#+STARTUP: showall
```

* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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1.200 cloud-utils 0.31-7-gd99b2d76-0ubuntu1

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Format: <http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/>

Upstream-Name: cloud-utils

Source: <https://code.launchpad.net/cloud-utils>

Upstream-Contact: Scott Moser <scott.moser@canonical.com>

Files: *

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1.202 bind 9.16.1-0ubuntu2.9

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<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

<xsl:stylesheet version="1.0"

xmlns:xsl="http://www.w3.org/1999/XSL/Transform"

xmlns:xi="http://www.w3.org/2001/XInclude"

xmlns:db="http://docbook.org/ns/docbook">

```

<xsl:template name="isc.copyright.format">
  <xsl:param name="text"/>
  <xsl:value-of select="$isc.copyright.leader"/>
  <xsl:value-of select="normalize-space(substring-before($text, '#10;'))"/>
  <xsl:text>#10;</xsl:text>
  <xsl:variable name="rest" select="substring-after($text, '#10;')"/>
  <xsl:if test="translate($rest, '#9;#32;', '')">
    <xsl:call-template name="isc.copyright.format">
      <xsl:with-param name="text" select="$rest"/>
    </xsl:call-template>
  </xsl:if>
</xsl:template>

```

```

<xsl:variable name="isc.copyright.text">
  <xsl:text>
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    License, v. 2.0. If a copy of the MPL was not distributed with this
    file, You can obtain one at http://mozilla.org/MPL/2.0/.
  </xsl:text>
</xsl:variable>

```

```

<xsl:variable name="isc.copyright">
  <xsl:call-template name="isc.copyright.format">
    <xsl:with-param name="text">
      <xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">
        <xsl:text>Copyright (C) </xsl:text>
        <xsl:call-template name="copyright.years">
          <xsl:with-param name="years" select="year"/>
        </xsl:call-template>
        <xsl:text> </xsl:text>
        <xsl:value-of select="holder"/>
        <xsl:value-of select="$isc.copyright.breakline"/>
        <xsl:text>#10;</xsl:text>
      </xsl:for-each>
    <xsl:value-of select="$isc.copyright.text"/>
  </xsl:with-param>
</xsl:call-template>
</xsl:variable>
</xsl:stylesheet>

```

<!--

- Local variables:
- mode: sgml
- End:

-->

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

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2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
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Mersenne Twister

The `_random` module includes code based on a download from
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following are the verbatim comments from the original code:

A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using `init_genrand(seed)`
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<http://www.math.keio.ac.jp/matumoto/emt.html>

email: matumoto@math.keio.ac.jp

Sockets

The `'socket'` module uses the functions, `'getaddrinfo'`, and `'getnameinfo'`, which are coded in separate source files from the WIDE Project, <http://www.wide.ad.jp/about/index.html>.

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Modified by Jack Jansen, CWI, July 1995:

- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with python standard

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*/

/* Modified by Guido van Rossum */

/* Beep added by Mark Hammond */

/* Win9X Beep and platform identification added by Uncle Timmy */

Files: Tools/pybench/*

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A. HISTORY OF THE SOFTWARE

=====

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no

1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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1.205 libfont-afm-perl 1.20-2

1.205.1 Available under license :

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```
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```

Found in path(s):

```
* /opt/cola/permits/1177444104_1625169469.89/0/libfont-afm-perl-1-20-orig-1-tar-gz/Font-AFM-1.20/lib/Font/Metrics/CourierOblique.pm
* /opt/cola/permits/1177444104_1625169469.89/0/libfont-afm-perl-1-20-orig-1-tar-gz/Font-AFM-1.20/lib/Font/Metrics/CourierBoldOblique.pm
* /opt/cola/permits/1177444104_1625169469.89/0/libfont-afm-perl-1-20-orig-1-tar-gz/Font-AFM-1.20/lib/Font/Metrics/CourierBold.pm
* /opt/cola/permits/1177444104_1625169469.89/0/libfont-afm-perl-1-20-orig-1-tar-gz/Font-AFM-1.20/lib/Font/Metrics/Courier.pm
```

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NAME

Font::AFM - Interface to Adobe Font Metrics files

SYNOPSIS

```
use Font::AFM;
$h = new Font::AFM "Helvetica";
$copyright = $h->Notice;
$w = $h->Wx->{"aring"};
$w = $h->stringwidth("Gisle", 10);
$h->dump; # for debugging
```

DESCRIPTION

This module implements the Font::AFM class. Objects of this class are initialised from an AFM-file and allows you to obtain information about the font and the metrics of the various glyphs in the font.

All measurements in AFM files are given in terms of units equal to 1/1000 of the scale factor of the font being used. To compute actual sizes in a document, these amounts should be multiplied by (scale factor of font)/1000.

The following methods are available:

`$afm = Font::AFM->new($fontname)`

Object constructor. Takes the name of the font as argument.

It will croak if the font can not be found.

`$afm->latin1_wx_table()`

Returns a 256 element array, where each element contains the width of the corresponding character in the iso-8859-1 character set.

`$afm->stringwidth($string, [$fontsize])`

Returns the width of the string passed as argument. The string is assumed to be encoded in the iso-8859-1 character set. A second argument can be used to scale the width according to the font size.

`$afm->FontName`

The name of the font as presented to the PostScript language ``findfont'` operator, for instance "Times-Roman".

`$afm->FullName`

Unique, human-readable name for an individual font, for instance "Times Roman".

`$afm->FamilyName`

Human-readable name for a group of fonts that are stylistic variants of a single design. All fonts that are member of such a group should have exactly the same ``FamilyName'`. Example of a family name is "Times".

`$afm->Weight`

Human-readable name for the weight, or "boldness", attribute of a font. Examples are ``Roman'`, ``Bold'`, ``Light'`.

`$afm->ItalicAngle`

Angle in degrees counterclockwise from the vertical of the dominant vertical strokes of the font.

`$afm->IsFixedPitch`

If the value is ``true'`, it indicates that the font is a fixed-pitch (monospaced) font.

`$afm->FontBBox`

A string of four numbers giving the lower-left x, lower-left y, upper-right x, and upper-right y of the font bounding box. The font bounding box is the smallest rectangle enclosing the shape that would result if all the characters of the font were placed with their origins coincident, and then painted.

`$afm->UnderlinePosition`

Recommended distance from the baseline for positioning underline strokes. This number is the y coordinate of the center of the stroke.

`$afm->UnderlineThickness`

Recommended stroke width for underlining.

`$afm->Version`

Version number of the font.

`$afm->Notice`

Trademark or copyright notice, if applicable.

`$afm->Comment`

Comments found in the AFM file.

`$afm->EncodingScheme`

The name of the standard encoding scheme for the font. Most Adobe fonts use the ``AdobeStandardEncoding'`. Special fonts might state ``FontSpecific'`.

`$afm->CapHeight`

Usually the y-value of the top of the capital H.

`$afm->XHeight`

Typically the y-value of the top of the lowercase x.

`$afm->Ascender`

Typically the y-value of the top of the lowercase d.

`$afm->Descender`

Typically the y-value of the bottom of the lowercase p.

`$afm->Wx`

Returns a hash table that maps from glyph names to the width of that glyph.

`$afm->BBox`

Returns a hash table that maps from glyph names to bounding box information. The bounding box consist of 4 numbers: llx, lly, urx, ury.

`$afm->dump`

Dumps the content of the `Font::AFM` object to `STDOUT`. Might sometimes be useful for debugging.

The AFM specification can be found at:

ftp://ftp.adobe.com/pub/adobe/DeveloperSupport/TechNotes/PSfiles/5004.AFM_Spec.ps

ENVIRONMENT

METRICS Contains the path to search for AFM-files. Format is as for the PATH environment variable. The default path built into this library is:

```
/usr/lib/afm:/usr/local/lib/afm:/usr/openwin/lib/fonts/afm/.
```

BUGS

Kerning data and composite character data is not yet parsed.
Ligature data is not parsed.

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Found in path(s):

```
* /opt/cola/permits/1177444104_1625169469.89/0/libfont-afm-perl-1-20-orig-1-tar-gz/Font-AFM-1.20/README
```

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```
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```

Found in path(s):

```
* /opt/cola/permits/1177444104_1625169469.89/0/libfont-afm-perl-1-20-orig-1-tar-gz/Font-AFM-1.20/lib/Font/Metrics/HelveticaBold.pm
```

```
* /opt/cola/permits/1177444104_1625169469.89/0/libfont-afm-perl-1-20-orig-1-tar-gz/Font-AFM-1.20/lib/Font/Metrics/HelveticaBoldOblique.pm
```

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=head1 NAME

Font::AFM - Interface to Adobe Font Metrics files

=head1 SYNOPSIS

```
use Font::AFM;
$h = new Font::AFM "Helvetica";
$copyright = $h->Notice;
$w = $h->Wx->{"aring"};
$w = $h->stringwidth("Gisle", 10);
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```

=head1 DESCRIPTION

This module implements the `Font::AFM` class. Objects of this class are initialised from an AFM (Adobe Font Metrics) file and allow you to obtain information about the font and the metrics of the various glyphs in the font.

All measurements in AFM files are given in terms of units equal to 1/1000 of the scale factor of the font being used. To compute actual sizes in a document, these amounts should be multiplied by (scale factor of font)/1000.

The following methods are available:

=over 3

=item \$afm = Font::AFM->new(\$fontname)

Object constructor. Takes the name of the font as argument.
Croaks if the font can not be found.

=item \$afm->latin1_wx_table()

Returns a 256-element array, where each element contains the width of the corresponding character in the iso-8859-1 character set.

=item \$afm->stringwidth(\$string, [\$fontsize])

Returns the width of the argument string. The string is assumed to be encoded in the iso-8859-1 character set. A second argument can be used to scale the width according to the font size.

=item \$afm->FontName

The name of the font as presented to the PostScript language
C<findfont> operator, for instance "Times-Roman".

=item \$afm->FullName

Unique, human-readable name for an individual font, for instance
"Times Roman".

=item \$afm->FamilyName

Human-readable name for a group of fonts that are stylistic variants of a single design. All fonts that are members of such a group should have exactly the same C<FamilyName>. Example of a family name is "Times".

=item \$afm->Weight

Human-readable name for the weight, or "boldness", attribute of a font. Examples are C<Roman>, C<Bold>, C<Light>.

=item \$afm->ItalicAngle

Angle in degrees counterclockwise from the vertical of the dominant vertical strokes of the font.

=item \$afm->IsFixedPitch

If C<true>, the font is a fixed-pitch (monospaced) font.

=item \$afm->FontBBox

A string of four numbers giving the lower-left x, lower-left y, upper-right x, and upper-right y of the font bounding box. The font bounding box is the smallest rectangle enclosing the shape that would result if all the characters of the font were placed with their origins coincident, and then painted.

=item \$afm->UnderlinePosition

Recommended distance from the baseline for positioning underline strokes. This number is the y coordinate of the center of the stroke.

=item \$afm->UnderlineThickness

Recommended stroke width for underlining.

=item \$afm->Version

Version number of the font.

=item \$afm->Notice

Trademark or copyright notice, if applicable.

=item \$afm->Comment

Comments found in the AFM file.

=item \$afm->EncodingScheme

The name of the standard encoding scheme for the font. Most Adobe fonts use the C<AdobeStandardEncoding>. Special fonts might state C<FontSpecific>.

=item \$fm->CapHeight

Usually the y-value of the top of the capital H.

=item \$fm->XHeight

Typically the y-value of the top of the lowercase x.

=item \$fm->Ascender

Typically the y-value of the top of the lowercase d.

=item \$fm->Descender

Typically the y-value of the bottom of the lowercase p.

=item \$fm->Wx

Returns a hash table that maps from glyph names to the width of that glyph.

=item \$fm->BBox

Returns a hash table that maps from glyph names to bounding box information. The bounding box consist of four numbers: llx, lly, urx, ury.

=item \$fm->dump

Dumps the content of the Font::AFM object to STDOUT. Might sometimes be useful for debugging.

=back

The AFM specification can be found at:

http://partners.adobe.com/asn/developer/pdfs/tn/5004.AFM_Spec.pdf

=head1 ENVIRONMENT

=over 10

=item METRICS

Contains the path to search for AFM-files. Format is as for the PATH environment variable. The default path built into this library is:

/usr/lib/afm:/usr/local/lib/afm:/usr/openwin/lib/fonts/afm/.

=back

=head1 BUGS

Kerning data and composite character data are not yet parsed.

Ligature data is not parsed.

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=cut

Found in path(s):

* /opt/cola/permits/1177444104_1625169469.89/0/libfont-afm-perl-1-20-orig-1-tar-gz/Font-AFM-1.20/AFM.pm

No license file was found, but licenses were detected in source scan.

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Found in path(s):

* /opt/cola/permits/1177444104_1625169469.89/0/libfont-afm-perl-1-20-orig-1-tar-gz/Font-AFM-1.20/lib/Font/Metrics/Helvetica.pm

* /opt/cola/permits/1177444104_1625169469.89/0/libfont-afm-perl-1-20-orig-1-tar-gz/Font-AFM-1.20/lib/Font/Metrics/HelveticaOblique.pm

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* /opt/cola/permits/1177444104_1625169469.89/0/libfont-afm-perl-1-20-orig-1-tar-gz/Font-AFM-1.20/lib/Font/Metrics/TimesBold.pm

* /opt/cola/permits/1177444104_1625169469.89/0/libfont-afm-perl-1-20-orig-1-tar-gz/Font-AFM-1.20/lib/Font/Metrics/TimesItalic.pm

* /opt/cola/permits/1177444104_1625169469.89/0/libfont-afm-perl-1-20-orig-1-tar-gz/Font-AFM-1.20/lib/Font/Metrics/TimesBoldItalic.pm

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license: ~

Found in path(s):

* /opt/cola/permits/1177444104_1625169469.89/0/libfont-afm-perl-1-20-orig-1-tar-gz/Font-AFM-1.20/META.yml

1.206 shadow 4.8.1-1ubuntu5.20.04

1.206.1 Available under license :

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<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) <year> <name of author>
```

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Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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1.210 vixie-cron 3.0pl1-136ubuntu1

1.210.1 Available under license :

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```
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.\"
.\" @(#)bitstring.3 5.1 (Berkeley) 12/13/89
.\"",
```

Found in path(s):

```
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/bitstring.3
```

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```
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```

```
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```

Found in path(s):

```
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/Makefile
```

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```
/*
```

```
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```

```
* All rights reserved.
```

```
*
```

```
* This code is derived from software written by Ken Arnold and
```

```
* published in UNIX Review, Vol. 6, No. 8.
```

```
*
```

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```
*
```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/popen.c
```

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* Paul Vixie <paul@vix.com> uunet!decwrl!vixie!paul
*/
```

Found in path(s):

```
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/database.c
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/misc.c
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/job.c
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/compat.c
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/do_command.c
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/user.c
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/config.h
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/entry.c
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/cron.h
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/crontab.c
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/env.c
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/cron.c
```

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* I'll try to keep a version up to date. I can be reached as follows:
* Paul Vixie <paul@vix.com> uunet!decwrl!vixie!paul
*/
```

\$Id: INSTALL,v 2.5 1994/01/15 20:43:43 vixie Exp \$

Read the comments at the top of the Makefile, then edit the area marked

'configurable stuff'.

Edit config.h. The stuff I expect you to change is down a bit from the top of the file, but it's clearly marked. Also look at pathnames.h.

You don't have to create the /var/cron or /var/cron/tabs directories, since both the daemon and the `crontab' program will do this the first time they run if they don't exist. You do need to have a /var, though -- just "mkdir /var" if you don't have one, or you can "mkdir /usr/var; ln -s /usr/var /var" if you expect your /var to have a lot of stuff in it.

You will also need /usr/local/etc and /usr/local/bin directories unless you change the Makefile. These will have to be created by hand, but if you are a long-time Usenet user you probably have them already. /usr/local/man is where I keep my man pages, but I have the source for `man' and you probably do not. Therefore you may have to put the man pages into /usr/man/man1, which will be hard since there will be name collisions. (Note that the man command was originally written by Bill Joy before he left Berkeley, and it contains no AT&T code, so it is in UUNET's archive of freely-distributable BSD code.)

LINUX note: /usr/include/paths.h on some linux systems shows _PATH_SENDMAIL to be /usr/bin/sendmail even though sendmail is installed in /usr/lib. you should check this out.

say:

```
make all
```

su and say:

```
make install
```

Note that if I can get you to "su and say" something just by asking, you have a very serious security problem on your system and you should look into it.

Edit your /usr/lib/crontab file into little pieces -- see the CONVERSION file for help on this.

Use the `crontab' command to install all the little pieces you just created. Some examples (see below before trying any of these!)

```
crontab -u uucp -r /usr/lib/uucp/crontab.src
crontab -u news -r /usr/lib/news/crontab.src
crontab -u root -r /usr/adm/crontab.src
```

Notes on above examples: (1) the .src files are copied at the time the command is issued; changing the source files later will have no effect until they are reinstalled with another `crontab -r' command. (2) The crontab command will affect the crontab of the person using the command unless `-u

USER' is given; '-u' only works for root. When using most 'su' commands under most BSD's, 'crontab' will still think of you as yourself even though you may think of yourself as root -- so use '-u' liberally. (3) the '-r' option stands for 'replace'; check the man page for crontab(1) for other possibilities.

Kill your existing cron daemon -- do 'ps aux' and look for /etc/cron.

Edit your /etc/rc or /etc/rc.local, looking for the line that starts up /etc/cron. Comment it out and add a line to start the new cron daemon -- usually /usr/local/etc/cron, unless you changed it in the Makefile.

Start up this cron daemon yourself as root. Just type /usr/local/etc/cron (or whatever); no '&' is needed since the daemon forks itself and the process you executed returns immediately.

ATT notes: for those people unfortunate enough to be stuck on a AT&T UNIX, you will need the public-domain "libndir", found in the B News source and in any comp.sources.unix archive. You will also need to hack the code some.

Found in path(s):

* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/INSTALL

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.\" * I'll try to keep a version up to date. I can be reached as follows:
.\" * Paul Vixie    <paul@vix.com>    uunet!decwrl!vixie!paul
.\" */
.\"
.\" $Id: crontab.1,v 2.4 1993/12/31 10:47:33 vixie Exp $
.\"
```

Found in path(s):

* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/crontab.1

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* I'll try to keep a version up to date. I can be reached as follows:
* Paul Vixie <paul@vix.com> uunet!decwrl!vixie!paul
*/
```

Found in path(s):

```
*/opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/compat.h
*/opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/pathnames.h
*/opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/externs.h
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```

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.\" * anyone resulting from the use of this software rests entirely with the
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.\" *
.\" * Send bug reports, bug fixes, enhancements, requests, flames, etc., and
.\" * I'll try to keep a version up to date. I can be reached as follows:
.\" * Paul Vixie <paul@vix.com> uunet!decwrl!vixie!paul
.\" */
.\"
.\" $Id: cron.8,v 2.2 1993/12/28 08:34:43 vixie Exp $
.\"
```

Found in path(s):

```
*/opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/cron.8
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```

```
/*
```

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* THIS SOFTWARE IS PROVIDED ``AS IS" AND WITHOUT ANY EXPRESS OR
* IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED
* WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.
*
* @(#)bitstring.h 5.2 (Berkeley) 4/4/90
*/

```

Found in path(s):

```

* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/bitstring.h
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```

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.\" * software; use at your own risk, responsibility for damages (if any) to
.\" * anyone resulting from the use of this software rests entirely with the
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.\" * Send bug reports, bug fixes, enhancements, requests, flames, etc., and
.\" * I'll try to keep a version up to date. I can be reached as follows:
.\" * Paul Vixie <paul@vix.com> uunet!decwrl!vixie!paul
.\" */
.\"
.\" $Id: crontab.5,v 2.4 1994/01/15 20:43:43 vixie Exp $
.\"

```

Found in path(s):

```

* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/crontab.5

```

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# *
# * Send bug reports, bug fixes, enhancements, requests, flames, etc., and
# * I'll try to keep a version up to date. I can be reached as follows:
# * Paul Vixie <paul@vix.com> uunet!decwrl!vixie!paul
# */
```

Vixie Cron V3.0

December 27, 1993

[V2.2 was some time in 1992]

[V2.1 was May 29, 1991]

[V2.0 was July 5, 1990]

[V2.0-beta was December 9, 1988]

[V1.0 was May 6, 1987]

Paul Vixie

This is a version of 'cron' that is known to run on BSD 4.[23] systems. It is functionally based on the SysV cron, which means that each user can have their own crontab file (all crontab files are stored in a read-protected directory, usually /var/cron/tabs). No direct support is provided for 'at'; you can continue to run 'atrun' from the crontab as you have been doing. If you don't have atrun (i.e., System V) you are in trouble.

A messages is logged each time a command is executed; also, the files "allow" and "deny" in /var/cron can be used to control access to the "crontab" command (which installs crontabs). It hasn't been tested on SysV, although some effort has gone into making the port an easy one.

This is more or less the copyright that USENET contributed software usually has. Since ATT couldn't use this version if they had to freely distribute source, and since I'd love to see them use it, I'll offer some ridiculously low license fee just to have them take it. In the unlikely event that they do this, I will continue to support and distribute the pseudo-PD version, so please, don't flame me for wanting my work to see a wider distribution.

To use this: Sorry, folks, there is no cutesy 'Configure' script. You'll

have to go edit a couple of files... So, here's the checklist:

Read all the FEATURES, INSTALL, and CONVERSION files

Edit config.h

Edit Makefile

(both of these files have instructions inside; note that some things in config.h are definable in Makefile and are therefore surrounded by #ifndef...#endif)

'make'

'su' and 'make install'

(you may have to install the man pages by hand)

kill your existing cron process

(actually you can run your existing cron if you want, but why?)

build new crontabs using /usr/lib/{crontab,crontab.local}

(either put them all in "root"'s crontab, or divide it up and rip out all the 'su' commands, collapse the lengthy lists into ranges with steps -- basically, this step is as much work as you want to make it)

start up the new cron

(must be done as root)

watch it. test it with 'crontab -r' and watch the daemon track your changes.

if you like it, change your /etc/{rc,rc.local} to use it instead of the old one.

\$Id: README,v 2.3 1993/12/28 08:34:43 vixie Exp \$

Found in path(s):

* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/README

1.211 usb-ids 2020.03.19-1

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1.212 kerberos 1.17-6ubuntu4.1

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Contributions to the urllib3 project

Creator & Maintainer

* Andrey Petrov <andrey.petrov@shazow.net>

Contributors

In chronological order:

* victor.vde <<http://code.google.com/u/victor.vde/>>

* HTTPS patch (which inspired HTTPSConnectionPool)

* erikcederstrand <<http://code.google.com/u/erikcederstrand/>>

* NTLM-authenticated HTTPSConnectionPool

* Basic-authenticated HTTPSConnectionPool (merged into make_headers)

* niphlod <niphlod@gmail.com>

* Client-verified SSL certificates for HTTPSConnectionPool

* Response gzip and deflate encoding support

* Better unicode support for filepost using StringIO buffers

* btoconnor <brian@btoconnor.net>

* Non-multipart encoding for POST requests

* p.dobrogost <<http://code.google.com/u/@WBRSRIBZDhBFXQB6/>>

* Code review, PEP8 compliance, benchmark fix

* kennethreitz <me@kennethreitz.com>

* Bugfixes, suggestions, Requests integration

* georgemarshall <<https://github.com/georgemarshall>>

* Bugfixes, Improvements and Test coverage

* Thomas Kluyver <thomas@kluyver.me.uk>

* Python 3 support

- * brandon-rhodes <<http://rhodesmill.org/brandon>>
 - * Design review, bugfixes, test coverage.

- * studer <theo.studer@gmail.com>
 - * IPv6 url support and test coverage

- * Shivaram Lingamneni <slingamn@cs.stanford.edu>
 - * Support for explicitly closing pooled connections

- * hartator <hartator@gmail.com>
 - * Corrected multipart behavior for params

- * Thomas Weischuh <thomas@t-8ch.de>
 - * Support for TLS SNI
 - * API unification of ssl_version/cert_reqs
 - * SSL fingerprint and alternative hostname verification
 - * Bugfixes in testsuite

- * Sune Kirkeby <mig@ibofobi.dk>
 - * Optional SNI-support for Python 2 via PyOpenSSL.

- * Marc Schlaich <marc.schlaich@gmail.com>
 - * Various bugfixes and test improvements.

- * Bryce Boe <bbzbryce@gmail.com>
 - * Correct six.moves conflict
 - * Fixed pickle support of some exceptions

- * Boris Figovsky <boris.figovsky@ravellosystems.com>
 - * Allowed to skip SSL hostname verification

- * Cory Benfield <<https://lukasa.co.uk/about/>>
 - * Stream method for Response objects.
 - * Return native strings in header values.
 - * Generate 'Host' header when using proxies.

- * Jason Robinson <jaywink@basshero.org>
 - * Add missing WrappedSocket.fileno method in PyOpenSSL

- * Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
 - * Fixed a race condition

- * Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
 - * Added HTTPS (CONNECT) proxy support

- * Stephen Holsapple <sholsapp@gmail.com>
 - * Added abstraction for granular control of request fields

- * Martin von Gagern <Martin.vGagern@gmx.net>
- * Support for non-ASCII header parameters

- * Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
- * Support for separate connect and request timeouts

- * Peter Waller <p@pwaller.net>
- * HTTPResponse.tell() for determining amount received over the wire

- * Nipunn Koorapati <nipunn1313@gmail.com>
- * Ignore default ports when comparing hosts for equality

- * Danilo @dbrgn <https://dbrgn.ch/>
- * Disabled TLS compression by default on Python 3.2+
- * Disabled TLS compression in pyopenssl contrib module
- * Configurable cipher suites in pyopenssl contrib module

- * Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
- * Account retries on proxy errors

- * Nicolas Delaby <nicolas.delaby@ezeep.com>
- * Use the platform-specific CA certificate locations

- * Josh Schneier <https://github.com/jschneier>
- * HTTPHeaderDict and associated tests and docs
- * Bugfixes, docs, test coverage

- * Tahia Khan <http://tahia.tk/>
- * Added Timeout examples in docs

- * Arthur Grunseid <https://grunseid.com>
- * source_address support and tests (with https://github.com/bui)

- * Ian Cordasco <graffatcolmingov@gmail.com>
- * PEP8 Compliance and Linting
- * Add ability to pass socket options to an HTTP Connection

- * Erik Tollerud <erik.tollerud@gmail.com>
- * Support for standard library io module.

- * Krishna Prasad <kprasad.iitd@gmail.com>
- * Google App Engine documentation

- * Aaron Meurer <asmeurer@gmail.com>
- * Added Url.url, which unparses a Url

- * Evgeny Kapun <abacabadabacaba@gmail.com>
- * Bugfixes

- * Benjamin Meyer <bm_witness@yahoo.com>
- * Security Warning Documentation update for proper capture

- * Shivan Sornarajah <github@sornars.com>
- * Support for using ConnectionPool and PoolManager as context managers.

- * Alex Gaynor <alex.gaynor@gmail.com>
- * Updates to the default SSL configuration

- * Tomas Tomecek <ttomecek@redhat.com>
- * Implemented generator for getting chunks from chunked responses.

- * tlynn <https://github.com/tlynn>
- * Respect the warning preferences at import.

- * David D. Riddle <ddriddle@illinois.edu>
- * IPv6 bugfixes in testsuite

- * Thea Flowers <magicalgirl@google.com>
- * App Engine environment tests.
- * Documentation re-write.

- * John Krauss <https://github.com/talos>
- * Clues to debugging problems with `cryptography` dependency in docs

- * Disassem <https://github.com/Disassem>
- * Fix pool-default headers not applying for url-encoded requests like GET.

- * James Atherfold <jlatherfold@hotmail.com>
- * Bugfixes relating to cleanup of connections during errors.

- * Christian Pedersen <https://github.com/chripede>
- * IPv6 HTTPS proxy bugfix

- * Jordan Moldow <https://github.com/jmoldow>
- * Fix low-level exceptions leaking from ``HTTPResponse.stream()``.
- * Bugfix for ``ConnectionPool.urlopen(release_conn=False)``.
- * Creation of ``HTTPConnectionPool.ResponseCls``.

- * Predrag Gruevski <https://github.com/obi1kenobi>
- * Made cert digest comparison use a constant-time algorithm.

- * Adam Talsma <https://github.com/a-tal>
- * Bugfix to ca_cert file paths.

- * Evan Meagher <https://evanmeagher.net>
- * Bugfix related to `memoryview` usage in PyOpenSSL adapter

- * John Vandenberg <jayvdb@gmail.com>
- * Python 2.6 fixes; pyflakes and pep8 compliance

- * Andy Caldwell <andy.m.caldwell@gmail.com>
- * Bugfix related to reusing connections in indeterminate states.

- * Ville Skytt <ville.skytta@iki.fi>
- * Logging efficiency improvements, spelling fixes, Travis config.

- * Shige Takeda <smtakeda@gmail.com>
- * Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response

- * Jess Shapiro <jesse@jesseshapiro.net>
- * Various character-encoding fixes/tweaks
- * Disabling IPv6 DNS when IPv6 connections not supported

- * David Foster <http://dafoster.net/>
- * Ensure order of request and response headers are preserved.

- * Jeremy Cline <jeremy@jcline.org>
- * Added connection pool keys by scheme

- * Aviv Palivoda <palaviv@gmail.com>
- * History list to Retry object.
- * HTTPResponse contains the last Retry object.

- * Nate Prewitt <nate.prewitt@gmail.com>
- * Ensure timeouts are not booleans and greater than zero.
- * Fixed infinite loop in ``stream`` when amt=None.
- * Added length_remaining to determine remaining data to be read.
- * Added enforce_content_length to raise exception when incorrect content-length received.

- * Seth Michael Larson <sethmichaellarson@protonmail.com>
- * Created selectors backport that supports PEP 475.

- * Alexandre Dias <alex.dias@smarkets.com>
- * Don't retry on timeout if method not in whitelist

- * Moinuddin Quadri <moin18@gmail.com>
- * Lazily load idna package

- * Tom White <s6yg1ez3@mail2tor.com>
- * Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

- * Tim Burke <tim.burke@gmail.com>
- * Stop buffering entire deflate-encoded responses.

- * Tuukka Mustonen <tuukka.mustonen@gmail.com>
- * Add counter for status_forcelist retries.

- * Erik Rose <erik@mozilla.com>
- * Bugfix to pyopenssl vendoring

- * Wolfgang Richter <wolfgang.richter@gmail.com>
- * Bugfix related to loading full certificate chains with PyOpenSSL backend.

- * Mike Miller <github@mikeage.net>
- * Logging improvements to include the HTTP(S) port when opening a new connection

- * Ioannis Tziakos <mail@itziakos.gr>
- * Fix ``util.selectors._fileobj_to_fd`` to accept ``long``.
- * Update appveyor tox setup to use the 64bit python.

- * Akamai (through Jess Shapiro) <jshapiro@akamai.com>
- * Ongoing maintenance; 2017-2018

- * Dominique Leuenberger <dimstar@opensuse.org>
- * Minor fixes in the test suite

- * Will Bond <will@wbond.net>
- * Add Python 2.6 support to ``contrib.securetransport``

- * Aleksei Alekseev <alekseev.yeskela@gmail.com>
- * using auth info for socks proxy

- * Chris Wilcox <git@crwilcox.com>
- * Improve contribution guide
- * Add ``HTTPResponse.geturl`` method to provide ``urllib2.urlopen().geturl()`` behavior

- * Bruce Merry <https://www.brucemerry.org.za>
- * Fix leaking exceptions when system calls are interrupted with zero timeout

- * Hugo van Kemenade <https://github.com/hugovk>
- * Drop support for EOL Python 2.6

- * Tim Bell <https://github.com/timb07>
- * Bugfix for responses with Content-Type: message/* logging warnings

- * Justin Bramley <https://github.com/jbramleycl>
- * Add ability to handle multiple Content-Encodings

- * Katsuhiko YOSHIDA <https://github.com/kyoshidajp>
- * Remove Authorization header regardless of case when redirecting to cross-site

- * James Meickle <https://permadeath.com/>

* Improve handling of Retry-After header

* Chris Jerdonek <chris.jerdonek@gmail.com>

* Remove a spurious TypeError from the exception chain inside
HTTPConnectionPool._make_request(), also for BaseExceptions.

* [Your name or handle] <[email or website]>

* [Brief summary of your changes]

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1.214 initramfs-tools 0.136ubuntu6.6

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The current ubuntu release can be found at:
<http://archive.ubuntu.com/ubuntu/pool/main/i/initramfs-tools/>

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<https://anonscm.debian.org/git/kernel/initramfs-tools.git>
<https://anonscm.debian.org/cgit/kernel/initramfs-tools.git>

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1.216 tdb 1.45.5

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1.217 kmod 27-1ubuntu2

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1.219 pcre2 10.34-7

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THE BASIC LIBRARY FUNCTIONS

Written by: Philip Hazel
Email local part: ph10
Email domain: cam.ac.uk

University of Cambridge Computing Service,
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1.220 libogg 1.3.4 0ubuntu1

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@end enumerate

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@item

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@item

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@item

Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

@item

Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports

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@item

Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

@end enumerate

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```
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```

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- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or

table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or

derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse

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You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on

which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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Version 2, June 1991

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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Otherwise, if the work is a derivative of the Library, you may

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- b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
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1.223 libhtml-format-perl 2.12-1

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```
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This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

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```
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program `Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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1.225 libsodium 1.0.18-1

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 */
```

1.226 libnet-dns-perl 1.22-1

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```
=head1 SYNOPSIS
```

```
use Net::DNS;
$rr = new Net::DNS::RR('name IN A address');

$rr = new Net::DNS::RR(
name => 'example.com',
type => 'A',
address => '192.0.2.1'
);
```


=head1 DESCRIPTION

Class for DNS Address (A) resource records.

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

=head2 address

```
$IPv4_address = $rr->address;  
$rr->address( $IPv4_address );
```

Version 4 IP address represented using dotted-quad notation.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, RFC1035 Section 3.4.1

=cut

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```
* /opt/cola/permits/1146928913_1616836868.34/0/libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/RR/A.pm
```

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=head1 SYNOPSIS

```
use Net::DNS;
```

=head1 DESCRIPTION

Class for DNS TSIG Key (TKEY) resource records.

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

=head2 algorithm

```
$algorithm = $rr->algorithm;  
$rr->algorithm( $algorithm );
```

The algorithm name is in the form of a domain name with the same meaning as in [RFC 2845]. The algorithm determines how the secret keying material agreed to using the TKEY RR is actually used to derive the algorithm specific key.

=head2 inception

```
$inception = $rr->inception;  
$rr->inception( $inception );
```

Time expressed as the number of non-leap seconds modulo 2**32 since the beginning of January 1970 GMT.

=head2 expiration

```
$expiration = $rr->expiration;  
$rr->expiration( $expiration );
```

Time expressed as the number of non-leap seconds modulo 2^{32} since the beginning of January 1970 GMT.

=head2 mode

```
$mode = $rr->mode;  
$rr->mode( $mode );
```

The mode field specifies the general scheme for key agreement or the purpose of the TKEY DNS message, as defined in [RFC2930(2.5)].

=head2 error

```
$error = $rr->error;  
$rr->error( $error );
```

The error code field is an extended RCODE.

=head2 key

```
$key = $rr->key;  
$rr->key( $key );
```

Sequence of octets representing the key exchange data.
The meaning of this data depends on the mode.

=head2 other

```
$other = $rr->other;  
$rr->other( $other );
```

Content not defined in the [RFC2930] specification but may be used in future extensions.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, RFC2930

=cut

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```
* /opt/cola/permits/1146928913_1616836868.34/0/libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/RR/TKEY.pm
```

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=head1 SYNOPSIS

```
use Net::DNS;
$r = new Net::DNS::RR('name SIG typecovered algorithm labels
  orgttl sigexpiration siginception
  keytag signame signature');

use Net::DNS::SEC;
$sigrr = create Net::DNS::RR::SIG( $string, $keypath,
  sigval => 10 # minutes
);

$sigrr->verify( $string, $keyrr ) || die $sigrr->vrfyerrstr;
$sigrr->verify( $packet, $keyrr ) || die $sigrr->vrfyerrstr;
```

=head1 DESCRIPTION

Class for DNS digital signature (SIG) resource records.

In addition to the regular methods inherited from `Net::DNS::RR` the class contains a method to sign packets and scalar data strings using private keys (create) and a method for verifying signatures.

The SIG RR is an implementation of RFC2931.

See `L<Net::DNS::RR::RRSIG>` for an implementation of RFC4034.

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

=head2 algorithm

```
$algorithm = $rr->algorithm;
```

The algorithm number field identifies the cryptographic algorithm used to create the signature.

`algorithm()` may also be invoked as a class method or simple function to perform mnemonic and numeric code translation.

=head2 sigexpiration and siginception times

=head2 sigex sigin sigval

```
$expiration = $rr->sigexpiration;  
$expiration = $rr->sigexpiration( $value );
```

```
$inception = $rr->siginception;  
$inception = $rr->siginception( $value );
```

The signature expiration and inception fields specify a validity time interval for the signature.

The value may be specified by a string with format 'yyymmddhhmmss' or a Perl `time()` value.

Return values are dual-valued, providing either a string value or numerical Perl `time()` value.

```
=head2 keytag
```

```
$keytag = $rr->keytag;  
$rr->keytag( $keytag );
```

The keytag field contains the key tag value of the KEY RR that validates this signature.

```
=head2 signame
```

```
$signame = $rr->signame;  
$rr->signame( $signame );
```

The signer name field value identifies the owner name of the KEY RR that a validator is supposed to use to validate this signature.

```
=head2 signature
```

```
=head2 sig
```

```
$sig = $rr->sig;  
$rr->sig( $sig );
```

The Signature field contains the cryptographic signature that covers the SIG RDATA (excluding the Signature field) and the subject data.

```
=head2 sigbin
```

```
$sigbin = $rr->sigbin;  
$rr->sigbin( $sigbin );
```

Binary representation of the cryptographic signature.

```
=head2 create
```

Create a signature over scalar data.

```
use Net::DNS::SEC;  
  
$keypath = '/home/olaf/keys/Kbla.foo.+001+60114.private';  
  
$sigrr = create Net::DNS::RR::SIG( $data, $keypath );  
  
$sigrr = create Net::DNS::RR::SIG( $data, $keypath,  
    sigval => 10  
);  
$sigrr->print;
```

```
# Alternatively use Net::DNS::SEC::Private

$private = Net::DNS::SEC::Private->new($keypath);

$sigrr= create Net::DNS::RR::SIG( $data, $private );
```

create() is an alternative constructor for a SIG RR object.

This method returns a SIG with the signature over the data made with the private key stored in the key file.

The first argument is a scalar that contains the data to be signed.

The second argument is a string which specifies the path to a file containing the private key as generated using dnssec-keygen, a program that comes with the ISC BIND distribution.

The optional remaining arguments consist of (name => value) pairs as follows:

```
signin => 20191201010101, # signature inception
sigex  => 20191201011101, # signature expiration
sigval => 10, # validity window (minutes)
```

The signin and sigex values may be specified as Perl time values or as a string with the format 'yyymmddhhmmss'. The default for signin is the time of signing.

The sigval argument specifies the signature validity window in minutes (sigex = signin + sigval).

By default the signature is valid for 10 minutes.

=over 4

=item *

Do not change the name of the private key file.

The create method uses the filename as generated by dnssec-keygen to determine the keyowner, algorithm, and the keyid (keytag).

=back

=head2 verify

```
$verify = $sigrr->verify( $data, $keyrr );  
$verify = $sigrr->verify( $data, [$keyrr, $keyrr2, $keyrr3] );
```

The verify() method performs SIG0 verification of the specified data against the signature contained in the \$sigrr object itself using the public key in \$keyrr.

If a reference to a Net::DNS::Packet is supplied, the method performs a SIG0 verification on the packet data.

The second argument can either be a Net::DNS::RR::KEYRR object or a reference to an array of such objects. Verification will return successful as soon as one of the keys in the array leads to positive validation.

Returns false on error and sets \$sig->vrfyerrstr

```
=head2 vrfyerrstr
```

```
$sig0 = $packet->sigrr || die 'not signed';  
print $sig0->vrfyerrstr unless $sig0->verify( $packet, $keyrr );
```

```
$sigrr->verify( $packet, $keyrr ) || die $sigrr->vrfyerrstr;
```

```
=head1 REMARKS
```

The code is not optimised for speed.

If this code is still around in 2100 (not a leap year) you will need to check for proper handling of times after 28th February.

```
=head1 ACKNOWLEDGMENTS
```

Although their original code may have disappeared following redesign of Net::DNS, Net::DNS::SEC and the OpenSSL API, the following individual contributors deserve to be recognised for their significant influence on the development of the SIG package.

Andy Vaskys (Network Associates Laboratories) supplied code for RSA.

T.J. Mather provided support for the DSA algorithm.

```
=head1 COPYRIGHT
```

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, L<Net::DNS::SEC>,
RFC4034, RFC3755, RFC2535, RFC2931, RFC3110, RFC3008,
L<Net::DNS::SEC::DSA>,
L<Net::DNS::SEC::RSA>

L<Algorithm Numbers|<http://www.iana.org/assignments/dns-sec-alg-numbers>>

L<BIND 9 Administrator Reference Manual|<http://www.bind9.net/manuals>>

=cut

Found in path(s):

* /opt/cola/permits/1146928913_1616836868.34/0/libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/RR/SIG.pm

No license file was found, but licenses were detected in source scan.

=head1 SYNOPSIS

use Net::DNS;

```
$rr = new Net::DNS::RR('name IN LP preference FQDN');
```

```
$rr = new Net::DNS::RR(  
name => 'example.com',  
type => 'LP',  
preference => 10,  
target => 'target.example.com.'  
);
```

=head1 DESCRIPTION

Class for DNS Locator Pointer (LP) resource records.

The LP DNS resource record (RR) is used to hold the name of a subnetwork for ILNP. The name is an FQDN which can then be used to look up L32 or L64 records. LP is, effectively, a Locator Pointer to L32 and/or L64 records.

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

=head2 preference

```
$preference = $rr->preference;  
$rr->preference( $preference );
```

A 16 bit unsigned integer in network byte order that indicates the relative preference for this LP record among other LP records associated with this owner name. Lower values are preferred over higher values.

=head2 FQDN, fqdn

=head2 target

```
$target = $rr->target;  
$rr->target( $target );
```

The FQDN field contains the DNS target name that is used to reference L32 and/or L64 records.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, RFC6742

=cut

Found in path(s):

```
* /opt/cola/permits/1146928913_1616836868.34/0/libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/RR/LP.pm
```

No license file was found, but licenses were detected in source scan.

=head1 SYNOPSIS

```
use Net::DNS;
$r = new Net::DNS::RR('name GPOS latitude longitude altitude');
```

=head1 DESCRIPTION

Class for DNS Geographical Position (GPOS) resource records.

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

=head2 latitude

```
$latitude = $rr->latitude;  
$rr->latitude( $latitude );
```

Floating-point representation of latitude, in degrees.

=head2 longitude

```
$longitude = $rr->longitude;  
$rr->longitude( $longitude );
```

Floating-point representation of longitude, in degrees.

=head2 altitude

```
$altitude = $rr->altitude;  
$rr->altitude( $altitude );
```

Floating-point representation of altitude, in metres.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, RFC1712

=cut

Found in path(s):

* /opt/cola/permits/1146928913_1616836868.34/0/libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/RR/GPOS.pm

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::Question>,
L<Net::DNS::Packet>, L<Net::DNS::Update>,
RFC1035 Section 4.1.3, RFC1123, RFC3597

=cut

Found in path(s):

* /opt/cola/permits/1146928913_1616836868.34/0/libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/RR.pm

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=head1 NAME

check_soa - Check nameservers for a domain

=head1 SYNOPSIS

```
check_soa [-d] [-n] [-s] [-t] [-v] domain [nameserver]
```

=head1 DESCRIPTION

B<check_soa> builds a list of nameservers for the zone which contains the specified domain name.

The program queries each nameserver for the relevant SOA record and reports the zone serial number.

Error reports are generated for nameservers which reply with incorrect, non-authoritative or outdated information.

=over 8

=item I<domain>

Fully qualified domain name to be tested.

Domains within ip6.arpa or in-addr.arpa namespaces may be specified using the appropriate IP address or prefix notation.

=item I<nameserver>

Optional name or list of IP addresses of specific nameserver to be tested.
Addresses are used in the sequence they appear in the argument list.

=back

SOA query packets are sent to the nameservers as rapidly as the underlying hardware will allow.
The program waits for a response only when it is needed for analysis.
Execution time is determined by the slowest nameserver.

This perldoc(1) documentation page is displayed if the I<domain> argument is omitted.

The program is based on the B<check_soa> idea described by Albitz and Liu.

=head1 OPTIONS

=over 8

=item B<-d>

Turn on resolver diagnostics.

=item B<-n>

Report negative cache TTL.

=item B<-s>

Request DNSSEC resource records.

=item B<-t>

Ignore UDP datagram truncation.

=item B<-v>

Verbose output including address records for each nameserver.

=back

=head1 EXAMPLES

=over 8

=item check_soa example.com

Query all nameservers for the specified domain.

=item check_soa 192.0.2.1

Query nameservers for the corresponding in-addr.arpa subdomain.

=item check_soa 2001:DB8::8:800:200C:417A

Query nameservers for the corresponding ip6.arpa subdomain.

=item check_soa 2001:DB8:0:CD30::/60

As above, for IPv6 address prefix of specified length.

=item check_soa 192.0.2.1 z.arin.net

Query specific nameserver as above.

=back

=head1 BUGS

The program can become confused by zones which originate, or appear to originate, from more than one primary server.

The timeout code uses the perl 4-argument select() function. This is not guaranteed to work in non-Unix environments.

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=head1 SEE ALSO

Paul Albitz, Cricket Liu.
DNS and BIND, 5th Edition.
O'Reilly, 2006.

Andrews, M.,

Locally Served DNS Zones,
RFC6303, IETF, 2011.

Andrews, M.,
Negative Caching of DNS Queries,
RFC2308, IETF Network Working Group, 1998.

Elz, R., Bush, R.,
Clarifications to the DNS Specification,
RFC2181, IETF Network Working Group, 1997.

Mockapetris, P.,
Domain Names - Implementation and Specification,
RFC 1035, USC/ISI, 1987.

Larry Wall, Tom Christiansen, Jon Orwant.
Programming Perl, 3rd Edition.
O'Reilly, 2000.

=cut

Found in path(s):

* /opt/cola/permits/1146928913_1616836868.34/0/libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/contrib/check_soa

No license file was found, but licenses were detected in source scan.

=head1 SYNOPSIS

```
use Net::DNS;  
$rr = new Net::DNS::RR('name KX preference exchange');
```

=head1 DESCRIPTION

DNS Key Exchange Delegation (KX) record

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

=head2 preference

```
$preference = $rr->preference;
```

```
$rr->preference( $preference );
```

A 16 bit integer which specifies the preference given to this RR among others at the same owner. Lower values are preferred.

```
=head2 exchange
```

```
$exchange = $rr->exchange;  
$rr->exchange( $exchange );
```

A domain name which specifies a host willing to act as a key exchange for the owner name.

```
=head1 COPYRIGHT
```

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```
=head1 SEE ALSO
```

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, RFC2230

```
=cut
```

Found in path(s):

```
* /opt/cola/permits/1146928913_1616836868.34/0/libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/RR/KX.pm
```

No license file was found, but licenses were detected in source scan.

=head1 SYNOPSIS

```
use Net::DNS;  
$rr = new Net::DNS::RR('name IN L64 preference locator64');
```

```
$rr = new Net::DNS::RR(  
name   => 'example.com',  
type   => 'L64',  
preference => 10,  
locator64 => '2001:0DB8:1140:1000'  
);
```

=head1 DESCRIPTION

Class for DNS 64-bit Locator (L64) resource records.

The L64 resource record is used to hold 64-bit Locator values for ILNPv6-capable nodes.

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

=head2 preference

```
$preference = $rr->preference;  
$rr->preference( $preference );
```

A 16 bit unsigned integer in network byte order that indicates the relative preference for this L64 record among other L64 records associated with this owner name. Lower values are preferred over higher values.

=head2 locator64

```
$locator64 = $rr->locator64;
```

The Locator64 field is an unsigned 64-bit integer in network byte order that has the same syntax and semantics as a 64-bit IPv6 routing prefix.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, RFC6742

=cut

Found in path(s):

* /opt/cola/permits/1146928913_1616836868.34/0/libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/RR/L64.pm

No license file was found, but licenses were detected in source scan.

=head1 SYNOPSIS

use Net::DNS;

```

$rr = new Net::DNS::RR('name RRSIG typecovered algorithm labels
orgttl sigexpiration siginception
keytag signame signature');

use Net::DNS::SEC;
$sigrr = create Net::DNS::RR::RRSIG( \@rrset, $keypath,
sigex => 20191231010101
signin => 20191201010101
);

```

```

$sigrr->verify( \@rrset, $keyrr ) || die $sigrr->vrfyerrstr;

```

=head1 DESCRIPTION

Class for DNS digital signature (RRSIG) resource records.

In addition to the regular methods inherited from `Net::DNS::RR` the class contains a method to sign RRsets using private keys (`create`) and a method for verifying signatures over RRsets (`verify`).

The RRSIG RR is an implementation of RFC4034.
See `L<Net::DNS::RR::SIG>` for an implementation of SIG0 (RFC2931).

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

=head2 typecovered

```

$typecovered = $rr->typecovered;

```

The `typecovered` field identifies the type of the RRset that is covered by this RRSIG record.

=head2 algorithm

```

$algorithm = $rr->algorithm;

```

The `algorithm` number field identifies the cryptographic algorithm used to create the signature.

`algorithm()` may also be invoked as a class method or simple function

to perform mnemonic and numeric code translation.

=head2 labels

```
$labels = $rr->labels;  
$rr->labels( $labels );
```

The labels field specifies the number of labels in the original RRSIG RR owner name.

=head2 orgttl

```
$orgttl = $rr->orgttl;  
$rr->orgttl( $orgttl );
```

The original TTL field specifies the TTL of the covered RRset as it appears in the authoritative zone.

=head2 sigexpiration and siginception times

=head2 sigex sigin sigval

```
$expiration = $rr->sigexpiration;  
$expiration = $rr->sigexpiration( $value );
```

```
$inception = $rr->siginception;  
$inception = $rr->siginception( $value );
```

The signature expiration and inception fields specify a validity time interval for the signature.

The value may be specified by a string with format 'yyyymmddhhmmss' or a Perl time() value.

Return values are dual-valued, providing either a string value or numerical Perl time() value.

=head2 keytag

```
$keytag = $rr->keytag;  
$rr->keytag( $keytag );
```

The keytag field contains the key tag value of the DNSKEY RR that validates this signature.

=head2 signame

```
$signame = $rr->signame;
```

```
$rr->signame( $signame );
```

The signer name field value identifies the owner name of the DNSKEY RR that a validator is supposed to use to validate this signature.

```
=head2 signature
```

```
=head2 sig
```

```
$sig = $rr->sig;  
$rr->sig( $sig );
```

The Signature field contains the cryptographic signature that covers the RRSIG RDATA (excluding the Signature field) and the RRset specified by the RRSIG owner name, RRSIG class, and RRSIG type covered fields.

```
=head2 sigbin
```

```
$sigbin = $rr->sigbin;  
$rr->sigbin( $sigbin );
```

Binary representation of the cryptographic signature.

```
=head2 create
```

Create a signature over a RR set.

```
use Net::DNS::SEC;  
  
$keypath = '/home/olaf/keys/Kbla.foo.+001+60114.private';  
  
$sigrr = create Net::DNS::RR::RRSIG( \@rrsetref, $keypath );  
  
$sigrr = create Net::DNS::RR::RRSIG( \@rrsetref, $keypath,  
    sigex => 20191231010101  
    signin => 20191201010101  
    );  
$sigrr->print;  
  
# Alternatively use Net::DNS::SEC::Private  
  
$private = Net::DNS::SEC::Private->new($keypath);  
  
$sigrr= create Net::DNS::RR::RRSIG( \@rrsetref, $private );
```

create() is an alternative constructor for a RRSIG RR object.

This method returns an RRSIG with the signature over the subject rrsset (an array of RRs) made with the private key stored in the key file.

The first argument is a reference to an array that contains the RRset that needs to be signed.

The second argument is a string which specifies the path to a file containing the private key as generated by dnssec-keygen.

The optional remaining arguments consist of (name => value) pairs as follows:

```
sigex => 20191231010101, # signature expiration
signin => 20191201010101, # signature inception
sigval => 30, # validity window (days)
ttl => 3600 # TTL
```

The signin and sigex values may be specified as Perl time values or as a string with the format 'yyyymmddhhmmss'. The default for signin is the time of signing.

The sigval argument specifies the signature validity window in days (sigex = signin + sigval).

By default the signature is valid for 30 days.

By default the TTL matches the RRset that is presented for signing.

```
=head2 verify
```

```
$verify = $sigrr->verify( $rrsetref, $keyrr );
$verify = $sigrr->verify( $rrsetref, [$keyrr, $keyrr2, $keyrr3] );
```

\$rrsetref contains a reference to an array of RR objects and the method verifies the RRset against the signature contained in the \$sigrr object itself using the public key in \$keyrr.

The second argument can either be a Net::DNS::RR::KEYRR object or a reference to an array of such objects. Verification will return successful as soon as one of the keys in the array leads to positive validation.

Returns 0 on error and sets \$sig->vrfyerrstr

```
=head2 vrfyerrstr
```



```
$verify = $sigrr->verify( $rrsetref, $keyrr );  
print $sigrr->vrfyerrstr unless $verify;
```

```
$sigrr->verify( $rrsetref, $keyrr ) || die $sigrr->vrfyerrstr;
```

=head1 KEY GENERATION

Private key files and corresponding public DNSKEY records are most conveniently generated using `dnssec-keygen`, a program that comes with the ISC BIND distribution.

```
dnssec-keygen -a 10 -b 2048 -f ksk rsa.example.  
dnssec-keygen -a 10 -b 1024 rsa.example.
```

```
dnssec-keygen -a 14 -f ksk ecdsa.example.  
dnssec-keygen -a 14 ecdsa.example.
```

Do not change the name of the private key file.

The create method uses the filename as generated by `dnssec-keygen` to determine the keyowner, algorithm, and the keyid (keytag).

=head1 REMARKS

The code is not optimised for speed.

It is probably not suitable to be used for signing large zones.

If this code is still around in 2100 (not a leap year) you will need to check for proper handling of times after 28th February.

=head1 ACKNOWLEDGMENTS

Although their original code may have disappeared following redesign of `Net::DNS`, `Net::DNS::SEC` and the OpenSSL API, the following individual contributors deserve to be recognised for their significant influence on the development of the RRSIG package.

Andy Vaskys (Network Associates Laboratories) supplied code for RSA.

T.J. Mather provided support for the DSA algorithm.

Dick Franks added support for elliptic curve and Edwards curve algorithms.

Mike McCauley created the `Crypt::OpenSSL::ECDSA` perl extension module specifically for this development.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, L<Net::DNS::SEC>,
RFC4034, RFC6840, RFC3755,
L<Net::DNS::SEC::DSA>,
L<Net::DNS::SEC::ECDSA>,
L<Net::DNS::SEC::EdDSA>,
L<Net::DNS::SEC::RSA>

L<Algorithm Numbers|<http://www.iana.org/assignments/dns-sec-alg-numbers>>

L<BIND 9 Administrator Reference Manual|<http://www.bind9.net/manuals>>

=cut

Found in path(s):

* /opt/cola/permits/1146928913_1616836868.34/0/libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-

1.22/lib/Net/DNS/RR/RRSIG.pm

No license file was found, but licenses were detected in source scan.

=head1 SYNOPSIS

```
use Net::DNS;  
$rr = new Net::DNS::RR('name AFSDB subtype hostname');
```

=head1 DESCRIPTION

Class for DNS AFS Data Base (AFSDB) resource records.

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

=head2 subtype

```
$subtype = $rr->subtype;  
$rr->subtype( $subtype );
```

A 16 bit integer which indicates the service offered by the listed host.

=head2 hostname

```
$hostname = $rr->hostname;  
$rr->hostname( $hostname );
```

The hostname field is a domain name of a host that has a server for the cell named by the owner name of the RR.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, RFC1183, RFC5864

=cut

Found in path(s):

```
* /opt/cola/permits/1146928913_1616836868.34/0/libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/RR/AFSDB.pm
```

No license file was found, but licenses were detected in source scan.

=head1 SYNOPSIS

```
use Net::DNS;
$r = new Net::DNS::RR('name DNSKEY flags protocol algorithm publickey');
```

=head1 DESCRIPTION

Class for DNSSEC Key (DNSKEY) resource records.

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or

other unpredictable behaviour.

=head2 flags

```
$flags = $rr->flags;  
$rr->flags( $flags );
```

Unsigned 16-bit number representing Boolean flags.

=over 4

=item zone

```
$rr->zone(1);
```

```
if ( $rr->zone ) {  
    ...  
}
```

Boolean Zone flag.

=back

=over 4

=item revoke

```
$rr->revoke(1);
```

```
if ( $rr->revoke ) {  
    ...  
}
```

Boolean Revoke flag.

=back

=over 4

=item sep

```
$rr->sep(1);
```

```
if ( $rr->sep ) {  
    ...  
}
```

Boolean Secure Entry Point flag.

=back

=head2 protocol

```
$protocol = $rr->protocol;  
$rr->protocol( $protocol );
```

The 8-bit protocol number. This field MUST have value 3.

=head2 algorithm

```
$algorithm = $rr->algorithm;  
$rr->algorithm( $algorithm );
```

The 8-bit algorithm number describes the public key algorithm.

algorithm() may also be invoked as a class method or simple function to perform mnemonic and numeric code translation.

=head2 publickey

=head2 key

```
$key = $rr->key;  
$rr->key( $key );
```

Base64 representation of the public key material.

=head2 keybin

```
$keybin = $rr->keybin;  
$rr->keybin( $keybin );
```

Opaque octet string representing the public key material.

=head2 privatekeyname

```
$privatekeyname = $rr->privatekeyname;
```

Returns the name of the privatekey as it would be generated by the BIND dnssec-keygen program. The format of that name being:

```
K<fqdn>+<algorithm>+<keyid>.private
```

=head2 signame

Returns the canonical signer name of the privatekey.

=head2 keylength

Returns the length (in bits) of the modulus calculated from the key text.

=head2 keytag

```
print "keytag = ", $rr->keytag, "\n";
```

Returns the 16-bit numerical key tag of the key. (RFC2535 4.1.6)

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, RFC4034, RFC3755

L<Algorithm Numbers|<http://www.iana.org/assignments/dns-sec-alg-numbers>>

=cut

Found in path(s):

```
* /opt/cola/permits/1146928913_1616836868.34/0/libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/RR/DNSKEY.pm
```

No license file was found, but licenses were detected in source scan.

=head1 SYNOPSIS

```
use Net::DNS;  
$rr = new Net::DNS::RR('name MX preference exchange');
```

=head1 DESCRIPTION

DNS Mail Exchanger (MX) resource record

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

=head2 preference

```
$preference = $rr->preference;  
$rr->preference( $preference );
```

A 16 bit integer which specifies the preference given to this RR among others at the same owner. Lower values are preferred.

=head2 exchange

```
$exchange = $rr->exchange;  
$rr->exchange( $exchange );
```

A domain name which specifies a host willing to act as a mail exchange for the owner name.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, RFC1035 Section 3.3.9

=cut

Found in path(s):

```
* /opt/cola/permits/1146928913_1616836868.34/0/libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/RR/MX.pm
```

No license file was found, but licenses were detected in source scan.

=head1 SYNOPSIS

```
use Net::DNS;
$packet = new Net::DNS::Packet( ... );

$packet->header->do(1); # extended flag

$packet->edns->size(1280); # UDP payload size

$packet->edns->option( COOKIE => $cookie );

$packet->edns->print;
```

```
:: EDNS version 0
:: flags: 8000
:: rcode: NOERROR
:: size: 1280
:: option: DAU => ( 8, 10, 13, 14, 15, 16 )
:: DHU => ( 1, 2, 4 )
:: COOKIE => ( CLIENT-COOKIE => 7261776279746573,
:: SERVER-COOKIE => )
```

=head1 DESCRIPTION

EDNS OPT pseudo resource record.

The OPT record supports EDNS protocol extensions and is not intended to be created, accessed or modified directly by user applications.

All EDNS features are performed indirectly by operations on the objects returned by the `$packet->header` and `$packet->edns` creator methods. The underlying mechanisms are entirely hidden from the user.

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

=head2 version

```
$version = $rr->version;
$rr->version( $version );
```

The version of EDNS supported by this OPT record.

=head2 size

```
$size = $packet->edns->size;
$more = $packet->edns->size(1280);
```

`size()` advertises the maximum size (octets) of UDP packet that can be reassembled in the network stack of the originating host.

=head2 rcode

```
$extended_rcode = $packet->header->rcode;  
$incomplete_rcode = $packet->edns->rcode;
```

The 12 bit extended RCODE. The most significant 8 bits reside in the OPT record. The least significant 4 bits can only be obtained from the packet header.

=head2 flags

```
$edns_flags = $packet->edns->flags;
```

```
$do = $packet->header->do;  
$packet->header->do(1);
```

16 bit field containing EDNS extended header flags.

=head2 options, option

```
@option = $packet->edns->options;
```

```
$octets = $packet->edns->option($option_code);
```

```
$packet->edns->option( COOKIE => $cookie );  
$packet->edns->option( 10 => $cookie );
```

When called in a list context, options() returns a list of option codes found in the OPT record.

When called in a scalar context with a single argument, option() returns the uninterpreted octet string corresponding to the specified option.

The method returns undef if the specified option is absent.

Options can be added or replaced by providing the (name => string) pair. The option is deleted if the value is undefined.

When option() is called in a list context with a single argument, the returned array provides a structured interpretation appropriate to the specified option.

For the example above:

```
%hash = $packet->edns->option(10);
```

```
%hash = (  
  'CLIENT-COOKIE' => 'rawbytes',
```

```
'SERVER-COOKIE' => "  
);
```

For some options, an array is more appropriate:

```
@algorithms = $packet->edns->option(6);
```

Similar forms of array or hash syntax may be used to construct the option value:

```
$packet->edns->option( DHU => [1, 2, 4] );
```

```
$packet->edns->option( COOKIE => {'CLIENT-COOKIE' => $cookie} );
```

```
=head1 COPYRIGHT
```

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```
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```

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```
=head1 SEE ALSO
```

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, RFC6891, RFC3225

=cut

Found in path(s):

```
* /opt/cola/permits/1146928913_1616836868.34/0/libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/RR/OPT.pm
```

No license file was found, but licenses were detected in source scan.

=head1 SYNOPSIS

```
use Net::DNS;
$r = new Net::DNS::RR('name SMIMEA usage selector matchingtype certificate');
```

=head1 DESCRIPTION

The SMIMEA DNS resource record (RR) is used to associate an end entity certificate or public key with the associated email address, thus forming a "SMIMEA certificate association".

The semantics of how the SMIMEA RR is interpreted are described in RFC6698.

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

=head2 usage

```
$usage = $rr->usage;
$rr->usage( $usage );
```

8-bit integer value which specifies the provided association that will be used to match the certificate.

=head2 selector

```
$selector = $rr->selector;
$rr->selector( $selector );
```

8-bit integer value which specifies which part of the certificate presented by the server will be matched against the association data.

=head2 matchingtype

```
$matchingtype = $rr->matchingtype;  
$rr->matchingtype( $matchingtype );
```

8-bit integer value which specifies how the certificate association is presented.

=head2 certificate

=head2 cert

```
$cert = $rr->cert;  
$rr->cert( $cert );
```

Hexadecimal representation of the certificate data.

=head2 certbin

```
$certbin = $rr->certbin;  
$rr->certbin( $certbin );
```

Binary representation of the certificate data.

=head2 babble

```
print $rr->babble;
```

The babble() method returns the 'BubbleBabble' representation of the digest if the Digest::BubbleBabble package is available, otherwise an empty string is returned.

BubbleBabble represents a message digest as a string of plausible words, to make the digest easier to verify. The "words" are not necessarily real words, but they look more like words than a string of hex characters.

The 'BubbleBabble' string is appended as a comment when the string method is called.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, RFC8162,
RFC6698

=cut

Found in path(s):

```
* /opt/cola/permits/1146928913_1616836868.34/0/libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/RR/SMIMEA.pm
```

No license file was found, but licenses were detected in source scan.

=head1 SYNOPSIS

```
use Net::DNS;

$resolver = new Net::DNS::Resolver();

# Perform a lookup, using the searchlist if appropriate.
$reply = $resolver->search( 'example.com' );

# Perform a lookup, without the searchlist
$reply = $resolver->query( 'example.com', 'MX' );

# Perform a lookup, without pre or post-processing
$reply = $resolver->send( 'example.com', 'MX', 'IN' );
```

```
# Send a prebuilt query packet
$query = new Net::DNS::Packet( ... );
$reply = $resolver->send( $query );
```

=head1 DESCRIPTION

Instances of the `Net::DNS::Resolver` class represent resolver objects. A program may have multiple resolver objects, each maintaining its own state information such as the nameservers to be queried, whether recursion is desired, etc.

=head1 METHODS

=head2 new

```
# Use the default configuration
$resolver = new Net::DNS::Resolver();

# Use my own configuration file
$resolver = new Net::DNS::Resolver( config_file => '/my/dns.conf' );

# Set options in the constructor
$resolver = new Net::DNS::Resolver(
nameservers => [ '2001:DB8::1', 'ns.example.com' ],
recurse    => 0,
debug     => 1
);
```

Returns a resolver object. If no arguments are supplied, `C<new()>` returns an object having the default configuration.

On Unix and Linux systems, the default values are read from the following files, in the order indicated:

=over

```
F</etc/resolv.conf>,
F<${HOME}/.resolv.conf>,
F<./resolv.conf>
```

=back

The following keywords are recognised in resolver configuration files:

=over

B<nameserver> address

IP address of a name server that the resolver should query.

B<domain> localdomain

The domain suffix to be appended to a short non-absolute name.

B<search> domain ...

A space-separated list of domains in the desired search path.

B<options> option:value ...

A space-separated list of key:value items.

=back

Except for `/etc/resolv.conf`, files will only be read if owned by the effective userid running the program. In addition, several environment variables may contain configuration information; see `ENVIRONMENT`.

Note that the domain and searchlist keywords are mutually exclusive. If both are present, the resulting behaviour is unspecified. If neither is present, the domain is determined from the local hostname.

On Windows systems, an attempt is made to determine the system defaults using the registry. Systems with many dynamically configured network interfaces may confuse `Net::DNS`.

```
# Use my own configuration file
$resolver = new Net::DNS::Resolver( config_file => '/my/dns.conf' );
```

You can include a configuration file of your own when creating a resolver object. This is supported on both Unix and Windows.

If a custom configuration file is specified at first instantiation, all other configuration files and environment variables are ignored.

```
# Set options in the constructor
$resolver = new Net::DNS::Resolver(
nameservers => [ '2001:DB8::1', 'ns.example.com' ],
recurse     => 0
);
```

Explicit arguments to `C<new()>` override the corresponding configuration variables. The argument list consists of a sequence of (name=>value) pairs, each interpreted as an invocation of the corresponding method.

=head2 print

```
$resolver->print;
```

Prints the resolver state on the standard output.

=head2 query

```
$packet = $resolver->query( 'mailhost' );  
$packet = $resolver->query( 'mailhost.example.com' );  
$packet = $resolver->query( '2001:DB8::1' );  
$packet = $resolver->query( 'example.com', 'MX' );  
$packet = $resolver->query( 'annotation.example.com', 'TXT', 'IN' );
```

Performs a DNS query for the given name; the search list is not applied.

If `C<defnames>` is true, the default domain will be appended to unqualified names.

The record type and class can be omitted; they default to A and IN.

If the name looks like an IP address (IPv4 or IPv6), then a query within `in-addr.arpa` or `ip6.arpa` will be performed.

Returns a `L<Net::DNS::Packet>` object, or `C<undef>` if no answers were found.

The reason for failure may be determined using `C<errorstring()>`.

If you need to examine the response packet, whether it contains any answers or not, use the `C<send()>` method instead.

=head2 search

```
$packet = $resolver->search( 'mailhost' );  
$packet = $resolver->search( 'mailhost.example.com' );  
$packet = $resolver->search( '2001:DB8::1' );  
$packet = $resolver->search( 'example.com', 'MX' );  
$packet = $resolver->search( 'annotation.example.com', 'TXT', 'IN' );
```

Performs a DNS query for the given name, applying the searchlist if appropriate. The search algorithm is as follows:

If the name contains one or more non-terminal dots, perform an initial query using the unmodified name.

If the number of dots is less than C<ndots>, and there is no terminal dot, try appending each suffix in the search list.

The record type and class can be omitted; they default to A and IN.
If the name looks like an IP address (IPv4 or IPv6), then a query within in-addr.arpa or ip6.arpa will be performed.

Returns a L<Net::DNS::Packet> object, or C<undef> if no answers were found.
The reason for failure may be determined using C<errorstring()>.

If you need to examine the response packet, whether it contains any answers or not, use the C<send()> method instead.

=head2 send

```
$packet = $resolver->send( $query );  
  
$packet = $resolver->send( 'mailhost.example.com' );  
$packet = $resolver->send( '2001:DB8::1' );  
$packet = $resolver->send( 'example.com', 'MX' );  
$packet = $resolver->send( 'annotation.example.com', 'TXT', 'IN' );
```

Performs a DNS query for the given name.
Neither the searchlist nor the default domain will be appended.

The argument list can be either a pre-built query L<Net::DNS::Packet> or a list of strings.

The record type and class can be omitted; they default to A and IN.
If the name looks like an IP address (IPv4 or IPv6), then a query within in-addr.arpa or ip6.arpa will be performed.

Returns a L<Net::DNS::Packet> object whether there were any answers or not.
Use C<< \$packet->header->ancount >> or C<< \$packet->answer >> to find out if there were any records in the answer section.
Returns C<undef> if no response was received.

=head2 axfr

```
@zone = $resolver->axfr();  
@zone = $resolver->axfr( 'example.com' );  
@zone = $resolver->axfr( 'example.com', 'IN' );  
  
$iterator = $resolver->axfr();  
$iterator = $resolver->axfr( 'example.com' );  
$iterator = $resolver->axfr( 'example.com', 'IN' );
```

```
$rr = $iterator->();
```

Performs a zone transfer using the resolver nameservers list, attempted in the order listed.

If the zone is omitted, it defaults to the first zone listed in the resolver search list.

If the class is omitted, it defaults to IN.

When called in list context, C<axfr()> returns a list of L<Net::DNS::RR> objects. The redundant SOA record that terminates the zone transfer is not returned to the caller.

In deference to RFC1035(6.3), a complete zone transfer is expected to return all records in the zone or nothing at all.

When no resource records are returned by C<axfr()>, the reason for failure may be determined using C<errorstring()>.

Here is an example that uses a timeout and TSIG verification:

```
$resolver->tcp_timeout( 10 );
$resolver->tsig( 'K hmac-sha1.example.+161+24053.private' );
@zone = $resolver->axfr( 'example.com' );

foreach $rr ( @zone ) {
    $rr->print;
}
```

When called in scalar context, C<axfr()> returns an iterator object. Each invocation of the iterator returns a single L<Net::DNS::RR> or C<undef> when the zone is exhausted.

An exception is raised if the zone transfer can not be completed.

The redundant SOA record that terminates the zone transfer is not returned to the caller.

Here is the example above, implemented using an iterator:

```
$resolver->tcp_timeout( 10 );
$resolver->tsig( 'K hmac-sha1.example.+161+24053.private' );
$iterator = $resolver->axfr( 'example.com' );

while ( $rr = $iterator->() ) {
    $rr->print;
}
```

```
}
```

```
=head2 bgsend
```

```
$handle = $resolver->bgsend( $packet ) || die $resolver->errorstring;
```

```
$handle = $resolver->bgsend( 'mailhost.example.com' );
```

```
$handle = $resolver->bgsend( '2001:DB8::1' );
```

```
$handle = $resolver->bgsend( 'example.com', 'MX' );
```

```
$handle = $resolver->bgsend( 'annotation.example.com', 'TXT', 'IN' );
```

Performs a background DNS query for the given name and returns immediately without waiting for the response. The program can then perform other tasks while awaiting the response from the nameserver.

The argument list can be either a `L<Net::DNS::Packet>` object or a list of strings. The record type and class can be omitted; they default to A and IN. If the name looks like an IP address (IPv4 or IPv6), then a query within `in-addr.arpa` or `ip6.arpa` will be performed.

Returns an opaque handle which is passed to subsequent invocations of the `C<bgbusy()>` and `C<bgreed()>` methods.

Errors are indicated by returning `C<undef>` in which case the reason for failure may be determined using `C<errorstring()>`.

The response `L<Net::DNS::Packet>` object is obtained by calling `C<bgreed()>`.

B<BEWARE>:

Programs should make no assumptions about the nature of the handles returned by `C<bgsend()>` which should be used strictly as described here.

```
=head2 bgreed
```

```
$handle = $resolver->bgsend( 'www.example.com' );
```

```
$packet = $resolver->bgreed($handle);
```

Reads the response following a background query.

The argument is the handle returned by `C<bgsend()>`.

Returns a `L<Net::DNS::Packet>` object or `C<undef>` if no response was received before the timeout interval expired.

```
=head2 bgbusy
```

```
$handle = $resolver->bgsend( 'foo.example.com' );
```

```
while ($resolver->bgbusy($handle)) {  
...  
}
```

```
$packet = $resolver->bgreadd($handle);
```

Returns true while awaiting the response or for the transaction to time out.
The argument is the handle returned by C<bgsend()>.

Truncated UDP packets will be retried transparently using TCP while continuing to assert busy to the caller.

=head2 debug

```
print 'debug flag: ', $resolver->debug, "\n";  
$resolver->debug(1);
```

Get or set the debug flag.

If set, calls to C<search()>, C<query()>, and C<send()> will print debugging information on the standard output.

The default is false.

=head2 defnames

```
print 'defnames flag: ', $resolver->defnames, "\n";  
$resolver->defnames(0);
```

Get or set the defnames flag.

If true, calls to C<query()> will append the default domain to resolve names that are not fully qualified.

The default is true.

=head2 dnsrch

```
print 'dnsrch flag: ', $resolver->dnsrch, "\n";  
$resolver->dnsrch(0);
```

Get or set the dnsrch flag.

If true, calls to C<search()> will apply the search list to resolve names that are not fully qualified.

The default is true.

=head2 domain

```
$domain = $resolver->domain;
$resolver->domain( 'domain.example' );
```

Gets or sets the resolver default domain.

=head2 igntc

```
print 'igntc flag: ', $resolver->igntc, "\n";
$resolver->igntc(1);
```

Get or set the igntc flag.

If true, truncated packets will be ignored.

If false, the query will be retried using TCP.

The default is false.

=head2 nameserver, nameservers

```
@nameservers = $resolver->nameservers();
$resolver->nameservers( '2001:DB8::1', '192.0.2.1' );
$resolver->nameservers( 'ns.domain.example.' );
```

Gets or sets the nameservers to be queried.

Also see the IPv6 transport notes below

=head2 persistent_tcp

```
print 'Persistent TCP flag: ', $resolver->persistent_tcp, "\n";
$resolver->persistent_tcp(1);
```

Get or set the persistent TCP setting.

If true, L<Net::DNS> will keep a TCP socket open for each host:port to which it connects.

This is useful if you are using TCP and need to make a lot of queries or updates to the same nameserver.

The default is false unless you are running a SOCKSified Perl, in which case the default is true.

=head2 persistent_udp

```
print 'Persistent UDP flag: ', $resolver->persistent_udp, "\n";
$resolver->persistent_udp(1);
```

Get or set the persistent UDP setting.

If true, a L<Net::DNS> resolver will use the same UDP socket for all queries within each address family.

This avoids the cost of creating and tearing down UDP sockets, but also defeats source port randomisation.

=head2 port

```
print 'sending queries to port ', $resolver->port, "\n";
$resolver->port(9732);
```

Gets or sets the port to which queries are sent.

Convenient for nameserver testing using a non-standard port.

The default is port 53.

=head2 recurse

```
print 'recursion flag: ', $resolver->recurse, "\n";
$resolver->recurse(0);
```

Get or set the recursion flag.

If true, this will direct nameservers to perform a recursive query.

The default is true.

=head2 retrans

```
print 'retrans interval: ', $resolver->retrans, "\n";
$resolver->retrans(3);
```

Get or set the retransmission interval

The default is 5 seconds.

=head2 retry

```
print 'number of tries: ', $resolver->retry, "\n";
$resolver->retry(2);
```

Get or set the number of times to try the query.

The default is 4.

=head2 searchlist


```
@searchlist = $resolver->searchlist;  
$resolver->searchlist( 'a.example', 'b.example', 'c.example' );
```

Gets or sets the resolver search list.

```
=head2 srcaddr
```

```
$resolver->srcaddr('2001::DB8::1');
```

Sets the source address from which queries are sent.
Convenient for forcing queries from a specific interface on a multi-homed host. The default is to use any local address.

```
=head2 srcport
```

```
$resolver->srcport(5353);
```

Sets the port from which queries are sent.
The default is 0, meaning any port.

```
=head2 tcp_timeout
```

```
print 'TCP timeout: ', $resolver->tcp_timeout, "\n";  
$resolver->tcp_timeout(10);
```

Get or set the TCP timeout in seconds.
The default is 120 seconds (2 minutes).

```
=head2 udp_timeout
```

```
print 'UDP timeout: ', $resolver->udp_timeout, "\n";  
$resolver->udp_timeout(10);
```

Get or set the bgsend() UDP timeout in seconds.
The default is 30 seconds.

```
=head2 udppacketsize
```

```
print "udppacketsize: ", $resolver->udppacketsize, "\n";  
$resolver->udppacketsize(2048);
```

Get or set the UDP packet size.

If set to a value not less than the default DNS packet size, an EDNS extension will be added indicating support for large UDP datagrams.

=head2 usevc

```
print 'usevc flag: ', $resolver->usevc, "\n";
$resolver->usevc(1);
```

Get or set the usevc flag.

If true, queries will be performed using virtual circuits (TCP) instead of datagrams (UDP).

The default is false.

=head2 replyfrom

```
print 'last response was from: ', $resolver->replyfrom, "\n";
```

Returns the IP address from which the most recent packet was received in response to a query.

=head2 errorstring

```
print 'query status: ', $resolver->errorstring, "\n";
```

Returns a string containing error information from the most recent DNS protocol interaction.

C<errorstring()> is meaningful only when interrogated immediately after the corresponding method call.

=head2 dnssec

```
print "dnssec flag: ", $resolver->dnssec, "\n";
$resolver->dnssec(0);
```

The dnssec flag causes the resolver to transmit DNSSEC queries and to add a EDNS0 record as required by RFC2671 and RFC3225.

The actions of, and response from, the remote nameserver is determined by the settings of the AD and CD flags.

Calling the C<dnssec()> method with a non-zero value will also set the UDP packet size to the default value of 2048. If that is too small or too big for your environment, you should call the C<udppacketsize()> method immediately after.

```
$resolver->dnssec(1); # DNSSEC using default packetsize
$resolver->udp packetsize(1250); # lower the UDP packet size
```

A fatal exception will be raised if the C<dnssec()> method is called but the L<Net::DNS::SEC> library has not been installed.

```
=head2 adflag
```

```
$resolver->dnssec(1);
$resolver->adflag(1);
print "authentication desired flag: ", $resolver->adflag, "\n";
```

Gets or sets the AD bit for dnssec queries. This bit indicates that the caller is interested in the returned AD (authentic data) bit but does not require any dnssec RRs to be included in the response. The default value is false.

```
=head2 cdflag
```

```
$resolver->dnssec(1);
$resolver->cdflag(1);
print "checking disabled flag: ", $resolver->cdflag, "\n";
```

Gets or sets the CD bit for dnssec queries. This bit indicates that authentication by upstream nameservers should be suppressed. Any dnssec RRs required to execute the authentication procedure should be included in the response. The default value is false.

```
=head2 tsig
```

```
$resolver->tsig( $tsig );

$resolver->tsig( 'Hmac-sha1.example.+161+24053.private' );

$resolver->tsig( 'Hmac-sha1.example.+161+24053.key' );

$resolver->tsig( 'Hmac-sha1.example.+161+24053.key',
fudge => 60
);

$resolver->tsig( $key_name, $key );

$resolver->tsig( undef );
```

Set the TSIG record used to automatically sign outgoing queries, zone transfers and updates. Automatic signing is disabled if called with undefined arguments.

The default resolver behaviour is not to sign any packets. You must call this method to set the key if you would like the resolver to sign and verify packets automatically.

Packets can also be signed manually; see the L<Net::DNS::Packet> and L<Net::DNS::Update> manual pages for examples. TSIG records in manually-signed packets take precedence over those that the resolver would add automatically.

=head1 ENVIRONMENT

The following environment variables can also be used to configure the resolver:

=head2 RES_NAMESERVERS

```
# Bourne Shell
RES_NAMESERVERS="2001:DB8::1 192.0.2.1"
export RES_NAMESERVERS
```

```
# C Shell
setenv RES_NAMESERVERS "2001:DB8::1 192.0.2.1"
```

A space-separated list of nameservers to query.

=head2 RES_SEARCHLIST

```
# Bourne Shell
RES_SEARCHLIST="a.example.com b.example.com c.example.com"
export RES_SEARCHLIST
```

```
# C Shell
setenv RES_SEARCHLIST "a.example.com b.example.com c.example.com"
```

A space-separated list of domains to put in the search list.

=head2 LOCALDOMAIN

```
# Bourne Shell
LOCALDOMAIN=example.com
export LOCALDOMAIN
```

```
# C Shell
setenv LOCALDOMAIN example.com
```

The default domain.

```
=head2 RES_OPTIONS
```

```
# Bourne Shell
RES_OPTIONS="retrans:3 retry:2 inet6"
export RES_OPTIONS
```

```
# C Shell
setenv RES_OPTIONS "retrans:3 retry:2 inet6"
```

A space-separated list of resolver options to set. Options that take values are specified as C<option:value>.

```
=head1 IPv4 TRANSPORT
```

The C<force_v4()>, C<force_v6()>, C<prefer_v4()>, and C<prefer_v6()> methods with non-zero argument may be used to configure transport selection.

The behaviour of the C<nameserver()> method illustrates the transport selection mechanism. If, for example, IPv4 transport has been forced, the C<nameserver()> method will only return IPv4 addresses:

```
$resolver->nameservers( '192.0.2.1', '192.0.2.2', '2001:DB8::3' );
$resolver->force_v4(1);
print join ' ', $resolver->nameservers();
```

will print

```
192.0.2.1 192.0.2.2
```

```
=head1 CUSTOMISED RESOLVERS
```

Net::DNS::Resolver is actually an empty subclass. At compile time a super class is chosen based on the current platform. A side benefit of this allows for easy modification of the methods in Net::DNS::Resolver. You can simply add a method to the namespace!

For example, if we wanted to cache lookups:

```
package Net::DNS::Resolver;

my %cache;
```

```
sub search {
$self = shift;

$cache{"@_"} ||= $self->SUPER::search(@_);
}
```

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::Packet>, L<Net::DNS::Update>,
L<Net::DNS::Header>, L<Net::DNS::Question>, L<Net::DNS::RR>,
L<resolver(5)>, RFC 1034, RFC 1035

=cut

Found in path(s):

* /opt/cola/permits/1146928913_1616836868.34/0/libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/Resolver.pm

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::Update>, L<Net::DNS::Header>, L<Net::DNS::Question>, L<Net::DNS::RR>, L<Net::DNS::RR::TSIG>, RFC1035 Section 4.1, RFC2136 Section 2, RFC2845

=cut

Found in path(s):

* /opt/cola/permits/1146928913_1616836868.34/0/libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/Packet.pm

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=head1 SYNOPSIS

```
use Net::DNS;  
$rr = new Net::DNS::RR('name NSEC3PARAM algorithm flags iterations salt');
```

=head1 DESCRIPTION

Class for DNSSEC NSEC3PARAM resource records.

The NSEC3PARAM RR contains the NSEC3 parameters (hash algorithm, flags, iterations and salt) needed to calculate hashed ownernames.

The presence of an NSEC3PARAM RR at a zone apex indicates that the specified parameters may be used by authoritative servers to choose an appropriate set of NSEC3 records for negative responses.

The NSEC3PARAM RR is not used by validators or resolvers.

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

=head2 algorithm

```
$algorithm = $rr->algorithm;  
$rr->algorithm( $algorithm );
```

The Hash Algorithm field is represented as an unsigned decimal integer. The value has a maximum of 255.

=head2 flags

```
$flags = $rr->flags;  
$rr->flags( $flags );
```

The Flags field is represented as an unsigned decimal integer. The value has a maximum of 255.

=head2 iterations


```
$iterations = $rr->iterations;  
$rr->iterations( $iterations );
```

The Iterations field is represented as an unsigned decimal integer. The value is between 0 and 65535, inclusive.

```
=head2 salt
```

```
$salt = $rr->salt;  
$rr->salt( $salt );
```

The Salt field is represented as a contiguous sequence of hexadecimal digits. A "-" (unquoted) is used in string format to indicate that the salt field is absent.

```
=head2 saltbin
```

```
$saltbin = $rr->saltbin;  
$rr->saltbin( $saltbin );
```

The Salt field as a sequence of octets.

```
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```

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, RFC5155

=cut

Found in path(s):

```
* /opt/cola/permits/1146928913_1616836868.34/0/libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/RR/NSEC3PARAM.pm
```

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=head1 SYNOPSIS

```
use Net::DNS;
$r = new Net::DNS::RR('name IN CERT certtype keytag algorithm cert');
```

=head1 DESCRIPTION

Class for DNS Certificate (CERT) resource records.

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

=head2 certtype

```
$certtype = $r->certtype;
```

Returns the certtype code for the certificate (in numeric form).

=head2 keytag

```
$keytag = $r->keytag;
$r->keytag( $keytag );
```

Returns the key tag for the public key in the certificate

=head2 algorithm

```
$algorithm = $rr->algorithm;
```

Returns the algorithm used by the certificate (in numeric form).

```
=head2 certificate
```

```
=head2 certbin
```

```
$certbin = $rr->certbin;  
$rr->certbin( $certbin );
```

Binary representation of the certificate.

```
=head2 cert
```

```
$cert = $rr->cert;  
$rr->cert( $cert );
```

Base64 representation of the certificate.

```
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```

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, RFC4398

=cut

Found in path(s):

```
* /opt/cola/permits/1146928913_1616836868.34/0/libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/RR/CERT.pm
```

No license file was found, but licenses were detected in source scan.

=head1 SYNOPSIS

```
use Net::DNS;
$r = new Net::DNS::RR('name PTR ptrdname');
```

=head1 DESCRIPTION

Class for DNS Pointer (PTR) resource records.

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

=head2 ptrdname

```
$ptrdname = $r->ptrdname;
$r->ptrdname( $ptrdname );
```

A domain name which points to some location in the domain name space.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, RFC1035 Section 3.3.12

=cut

Found in path(s):

```
* /opt/cola/permits/1146928913_1616836868.34/0/libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/RR/PTR.pm
```

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=head1 SYNOPSIS

```
use Net::DNS;
$r = new Net::DNS::RR( 'name TXT txtdata ...' );
```

```
$r = new Net::DNS::RR( name => 'name',
    type => 'TXT',
    txtdata => 'single text string'
);
```

```
$r = new Net::DNS::RR( name => 'name',
    type => 'TXT',
    txtdata => [ 'multiple', 'strings', ... ]
);
```

```
use utf8;
$r = new Net::DNS::RR( 'jp TXT ' );
```

=head1 DESCRIPTION

Class for DNS Text (TXT) resource records.

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

=head2 txtdata

```
$string = $rr->txtdata;  
@list = $rr->txtdata;
```

```
$rr->txtdata( @list );
```

When invoked in scalar context, txtdata() returns a concatenation of the descriptive text elements each separated by a single space character.

In a list context, txtdata() returns a list of the text elements.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, RFC1035 Section 3.3.14, RFC3629

=cut

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* /opt/cola/permits/1146928913_1616836868.34/0/libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/RR/TXT.pm

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::DomainName>, RFC1035, RFC5322 (RFC822)

=cut

Found in path(s):

```
* /opt/cola/permits/1146928913_1616836868.34/0/libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/Mailbox.pm
```

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=head1 SYNOPSIS

```
use Net::DNS;
$rr = new Net::DNS::RR('name NULL \# length hexdata ...');
```

=head1 DESCRIPTION

Class for DNS null (NULL) resource records.

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

=head2 rdlength

```
$rdlength = $rr->rdlength;
```

Returns the length of the record data section.

=head2 rdata

```
$rdata = $rr->rdata;
$rr->rdata( $rdata );
```

Returns the record data section as binary data.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, RFC1035 Section 3.3.10

=cut

Found in path(s):

* /opt/cola/permits/1146928913_1616836868.34/0/libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/RR/NULL.pm

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=head1 SYNOPSIS

```
use Net::DNS::Resolver;
```

=head1 DESCRIPTION

This class implements the OS specific portions of C<Net::DNS::Resolver>.

No user serviceable parts inside, see L<Net::DNS::Resolver> for all your resolving needs.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::Resolver>

=cut

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* /opt/cola/permits/1146928913_1616836868.34/0/libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/Resolver/os2.pm

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::Packet>, L<Net::DNS::RR::OPT>
RFC 1035 Section 4.1.1

=cut

Found in path(s):

* /opt/cola/permits/1146928913_1616836868.34/0/libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/Header.pm

No license file was found, but licenses were detected in source scan.

=head1 SYNOPSIS

```
use Net::DNS;
$rr = new Net::DNS::RR( 'name NSEC nxdname typelist' );
```

=head1 DESCRIPTION

Class for DNSSEC NSEC resource records.

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

=head2 nxdname

```
$nxdname = $rr->nxdname;  
$rr->nxdname( $nxdname );
```

The Next Domain field contains the next owner name (in the canonical ordering of the zone) that has authoritative data or contains a delegation point NS RRset.

=head2 typelist

```
@typelist = $rr->typelist;  
$typelist = $rr->typelist;
```

typelist() identifies the RRset types that exist at the NSEC RR owner name. When called in scalar context, the list is interpolated into a string.

=head2 typemap

```
$exists = $rr->typemap($rrtype);
```

typemap() returns a Boolean true value if the specified RRtype occurs in the type bitmap of the NSEC record.

=head2 match

```
$matched = $rr->match( 'example.foo' );
```

match() returns a Boolean true value if the canonical form of the name argument matches the canonical owner name of the NSEC RR.

=head2 covers

```
$covered = $rr->covers( 'example.foo' );
```

covers() returns a Boolean true value if the canonical form of the name, or one of its ancestors, falls between the owner name and the nxdname field of the NSEC record.

=head2 encloser, nextcloser, wildcard

```
$encloser = $rr->encloser( 'example.foo' );  
print "encloser: $encloser\n" if $encloser;
```

encloser() returns the name of a provable encloser of the query name argument obtained from the NSEC RR.

nextcloser() returns the next closer name, which is one label longer than the closest encloser.

This is only valid after encloser() has returned a valid domain name.

wildcard() returns the unexpanded wildcard name from which the next closer name was possibly synthesised.

This is only valid after encloser() has returned a valid domain name.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, RFC4034, RFC3755

=cut

Found in path(s):

* /opt/cola/permits/1146928913_1616836868.34/0/libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-

1.22/lib/Net/DNS/RR/NSEC.pm

No license file was found, but licenses were detected in source scan.

=head1 SYNOPSIS

```
use Net::DNS;  
$rr = new Net::DNS::RR('name IN CAA flags tag value');
```

=head1 DESCRIPTION

Class for Certification Authority Authorization (CAA) DNS resource records.

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

=head2 flags

```
$flags = $rr->flags;  
$rr->flags( $flags );
```

Unsigned 8-bit number representing Boolean flags.

=over 4

=item critical

```
$rr->critical(1);  
  
if ( $rr->critical ) {  
    ...  
}
```

Issuer critical flag.

=back

=head2 tag

```
$tag = $rr->tag;  
$rr->tag( $tag );
```

The property identifier, a sequence of ASCII characters.

Tag values may contain ASCII characters a-z, A-Z, and 0-9.

Tag values should not contain any other characters.

Matching of tag values is not case sensitive.

=head2 value

```
$value = $rr->value;  
$rr->value( $value );
```

A sequence of octets representing the property value.

Property values are encoded as binary values and may employ sub-formats.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, RFC6844

=cut

Found in path(s):

* /opt/cola/permits/1146928913_1616836868.34/0/libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/RR/CAA.pm

No license file was found, but licenses were detected in source scan.

=head1 SYNOPSIS

```
use Net::DNS;  
$rr = new Net::DNS::RR('name NS nsdname');
```

```
$rr = new Net::DNS::RR(  
name => 'example.com',  
type => 'NS',  
nsdname => 'ns.example.com',  
);
```

=head1 DESCRIPTION

Class for DNS Name Server (NS) resource records.

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

=head2 nsdname

```
$nsdname = $rr->nsdname;  
$rr->nsdname( $nsdname );
```

A domain name which specifies a host which should be authoritative for the specified class and domain.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, RFC1035 Section 3.3.11

=cut

Found in path(s):

```
* /opt/cola/permits/1146928913_1616836868.34/0/libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/RR/NS.pm
```

No license file was found, but licenses were detected in source scan.

=head1 SYNOPSIS

```
use Net::DNS;
$rr = new Net::DNS::RR('name PX preference map822 mapx400');
```

=head1 DESCRIPTION

Class for DNS X.400 Mail Mapping Information (PX) resource records.

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or

other unpredictable behaviour.

=head2 preference

```
$preference = $rr->preference;  
$rr->preference( $preference );
```

A 16 bit integer which specifies the preference given to this RR among others at the same owner. Lower values are preferred.

=head2 map822

```
$map822 = $rr->map822;  
$rr->map822( $map822 );
```

A domain name element containing <rfc822-domain>, the RFC822 part of the MIXER Conformant Global Address Mapping.

=head2 mapx400

```
$mapx400 = $rr->mapx400;  
$rr->mapx400( $mapx400 );
```

A <domain-name> element containing the value of <x400-in-domain-syntax> derived from the X.400 part of the MIXER Conformant Global Address Mapping.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, RFC2163

=cut

Found in path(s):

```
* /opt/cola/permits/1146928913_1616836868.34/0/libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/RR/PX.pm
```

No license file was found, but licenses were detected in source scan.

=head1 SYNOPSIS

```
use Net::DNS;
$rr = new Net::DNS::RR('name MG mgmname');
```

=head1 DESCRIPTION

Class for DNS Mail Group (MG) resource records.

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

=head2 mgmname

```
$mgmname = $rr->mgmname;
$rr->mgmname( $mgmname );
```

A domain name which specifies a mailbox which is a member of the mail group specified by the owner name.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, RFC1035 Section 3.3.6

=cut

Found in path(s):

```
* /opt/cola/permits/1146928913_1616836868.34/0/libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/RR/MG.pm
```

No license file was found, but licenses were detected in source scan.

=head1 SYNOPSIS

```
use Net::DNS;
$rr = new Net::DNS::RR('name SPF spfdata ...');
```

```
$rr = new Net::DNS::RR( name => 'name',
    type => 'SPF',
    spfdata => 'single text string'
```

```
);
```

```
$rr = new Net::DNS::RR( name => 'name',  
    type => 'SPF',  
    spfdata => [ 'multiple', 'strings', ... ]  
);
```

=head1 DESCRIPTION

Class for DNS Sender Policy Framework (SPF) resource records.

SPF records inherit most of the properties of the Net::DNS::RR::TXT class.

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

=head2 spfdata

=head2 txtdata

```
$string = $rr->spfdata;  
@list = $rr->spfdata;  
  
$rr->spfdata( @list );
```

When invoked in scalar context, spfdata() returns the policy text as a single string, with text elements concatenated without intervening spaces.

In a list context, spfdata() returns a list of the text elements.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, L<Net::DNS::RR::TXT>, RFC7208

=cut

Found in path(s):

* /opt/cola/permits/1146928913_1616836868.34/0/libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/RR/SPF.pm

No license file was found, but licenses were detected in source scan.

=head1 SYNOPSIS

```
use Net::DNS;
$rr = new Net::DNS::RR('name CSYNC SOAserial flags typelist');
```

=head1 DESCRIPTION

Class for DNSSEC CSYNC resource records.

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

```
=head2 SOAserial
```

```
=head2 soaserial
```

```
$soaserial = $rr->soaserial;  
$rr->soaserial( $soaserial );
```

The SOA Serial field contains a copy of the 32-bit SOA serial number from the child zone.

```
=head2 flags
```

```
$flags = $rr->flags;  
$rr->flags( $flags );
```

The flags field contains 16 bits of boolean flags that define operations which affect the processing of the CSYNC record.

```
=over 4
```

```
=item immediate
```

```
$rr->immediate(1);
```

```
if ( $rr->immediate ) {  
    ...  
}
```

If not set, a parental agent must not process the CSYNC record until the zone administrator approves the operation through an out-of-band mechanism.

```
=back
```

```
=over 4
```

```
=item soaminimum
```

```
$rr->soaminimum(1);
```

```
if ( $rr->soaminimum ) {  
    ...  
}
```

If set, a parental agent querying child authoritative servers must not act on data from zones advertising an SOA serial number less than the

SOAserial value.

=back

=head2 typelist

```
@typelist = $rr->typelist;
```

```
$typelist = $rr->typelist;
```

The type list indicates the record types to be processed by the parental agent. When called in scalar context, the list is interpolated into a string.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, RFC7477

=cut

Found in path(s):

* /opt/cola/permits/1146928913_1616836868.34/0/libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/RR/CSYNC.pm

No license file was found, but licenses were detected in source scan.

=head2 Resolver Objects

A resolver object is an instance of the L<Net::DNS::Resolver> class.

A program may have multiple resolver objects, each maintaining its own state information such as the nameservers to be queried, whether recursion is desired, etc.

=head2 Packet Objects

L<Net::DNS::Resolver> queries return L<Net::DNS::Packet> objects.

A packet object has five sections:

=over 3

=item *

header, represented by a L<Net::DNS::Header> object

=item *

question, a list of no more than one L<Net::DNS::Question> object

=item *

answer, a list of L<Net::DNS::RR> objects

=item *

authority, a list of L<Net::DNS::RR> objects

=item *

additional, a list of L<Net::DNS::RR> objects

=back

=head2 Update Objects

L<Net::DNS::Update> is a subclass of L<Net::DNS::Packet> used to create dynamic update requests.

=head2 Header Object

The L<Net::DNS::Header> object mediates access to the header data which resides within the corresponding L<Net::DNS::Packet>.

=head2 Question Object

The L<Net::DNS::Question> object represents the content of the question section of the DNS packet.

=head2 RR Objects

L<Net::DNS::RR> is the base class for DNS resource record (RR) objects in the answer, authority, and additional sections of a DNS packet.

Do not assume that RR objects will be of the type requested. The type of an RR object must be checked before calling any methods.

=head1 METHODS

Net::DNS exports methods and auxiliary functions to support DNS updates, zone serial number management, and simple DNS queries.

=head2 version

```
use Net::DNS;
print Net::DNS->version, "\n";
```

Returns the version of Net::DNS.

=head2 rr

```
# Use a default resolver -- can not get an error string this way.
use Net::DNS;
my @rr = rr("example.com");
my @rr = rr("example.com", "AAAA");
my @rr = rr("example.com", "AAAA", "IN");

# Use your own resolver object.
my $res = Net::DNS::Resolver->new;
my @rr = rr($res, "example.com" ... );

my ($ptr) = rr("2001:DB8::dead:beef");
```

The C<rr()> method provides simple RR lookup for scenarios where the full flexibility of Net::DNS is not required.

Returns a list of L<Net::DNS::RR> objects for the specified name or an empty list if the query failed or no record was found.

See L</EXAMPLES> for more complete examples.

=head2 mx

```
# Use a default resolver -- can not get an error string this way.
```

```
use Net::DNS;
```

```
my @mx = mx("example.com");
```

```
# Use your own resolver object.
```

```
my $res = Net::DNS::Resolver->new;
```

```
my @mx = mx($res, "example.com");
```

Returns a list of L<Net::DNS::RR::MX> objects representing the MX records for the specified name.

The list will be sorted by preference.

Returns an empty list if the query failed or no MX record was found.

This method does not look up address records; it resolves MX only.

=head1 Dynamic DNS Update Support

The Net::DNS module provides auxiliary functions which support dynamic DNS update requests.

=head2 yxrrset

Use this method to add an "RRset exists" prerequisite to a dynamic update packet. There are two forms, value-independent and value-dependent:

```
# RRset exists (value-independent)
```

```
$update->push( pre => yxrrset("host.example.com AAAA") );
```

Meaning: At least one RR with the specified name and type must exist.

```
# RRset exists (value-dependent)
```

```
$update->push( pre => yxrrset("host.example.com AAAA 2001:DB8::dead:beef") );
```

Meaning: At least one RR with the specified name and type must exist and must have matching data.

Returns a L<Net::DNS::RR> object or C<undef> if the object could not be created.

=head2 nxrrset

Use this method to add an "RRset does not exist" prerequisite to a dynamic update packet.

```
$update->push( pre => nxrrset("host.example.com AAAA") );
```

Meaning: No RRs with the specified name and type can exist.

Returns a L<Net::DNS::RR> object or C<undef> if the object could not be created.

=head2 yxdomain

Use this method to add a "name is in use" prerequisite to a dynamic update packet.

```
$update->push( pre => yxdomain("host.example.com") );
```

Meaning: At least one RR with the specified name must exist.

Returns a L<Net::DNS::RR> object or C<undef> if the object could not be created.

=head2 nxdomain

Use this method to add a "name is not in use" prerequisite to a dynamic update packet.

```
$update->push( pre => nxdomain("host.example.com") );
```

Meaning: No RR with the specified name can exist.

Returns a L<Net::DNS::RR> object or C<undef> if the object could not be created.

=head2 rr_add

Use this method to add RRs to a zone.

```
$update->push( update => rr_add("host.example.com AAAA 2001:DB8::dead:beef") );
```

Meaning: Add this RR to the zone.

RR objects created by this method should be added to the "update" section of a dynamic update packet. The TTL defaults to 86400 seconds (24 hours) if not specified.

Returns a L<Net::DNS::RR> object or C<undef> if the object could not be created.

=head2 rr_del

Use this method to delete RRs from a zone. There are three forms: delete all RRsets, delete an RRset, and delete a specific RR.

```
# Delete all RRsets.  
$update->push( update => rr_del("host.example.com") );
```

Meaning: Delete all RRs having the specified name.

```
# Delete an RRset.  
$update->push( update => rr_del("host.example.com AAAA") );
```

Meaning: Delete all RRs having the specified name and type.

```
# Delete a specific RR.  
$update->push( update => rr_del("host.example.com AAAA 2001:DB8::dead:beef") );
```

Meaning: Delete the RR which matches the specified argument.

RR objects created by this method should be added to the "update" section of a dynamic update packet.

Returns a L<Net::DNS::RR> object or C<undef> if the object could not be created.

=head1 Zone Serial Number Management

The Net::DNS module provides auxiliary functions which support policy-driven zone serial numbering regimes.

=head2 SEQUENTIAL

```
$successor = $soa->serial( SEQUENTIAL );
```

The existing serial number is incremented modulo $2^{*}32$.

=head2 UNIXTIME

```
$successor = $soa->serial( UNIXTIME );
```

The Unix time scale will be used as the basis for zone serial numbering. The serial number will be incremented if the time elapsed since the previous update is less than one second.

```
=head2 YYYYMMDDxx
```

```
$successor = $soa->serial( YYYYMMDDxx );
```

The 32 bit value returned by the auxiliary `C<YYYYMMDDxx()` function will be used as the base for the date-coded zone serial number. Serial number increments must be limited to 100 per day for the date information to remain useful.

```
=head1 Sorting of RR arrays
```

`C<rrsort()` provides functionality to help you sort RR arrays. In most cases this will give you the result that you expect, but you can specify your own sorting method by using the `C<< Net::DNS::RR::FOO->set_rrsort_func() >>` class method. See `L<Net::DNS::RR>` for details.

```
=head2 rrsort
```

```
use Net::DNS;
```

```
my @sorted = rrsort( $rrtype, $attribute, @rr_array );
```

`C<rrsort()` selects all RRs from the input array that are of the type defined by the first argument. Those RRs are sorted based on the attribute that is specified as second argument.

There are a number of RRs for which the sorting function is defined in the code.

For instance:

```
my @prioritysorted = rrsort( "SRV", "priority", @rr_array );
```

returns the SRV records sorted from lowest to highest priority and for equal priorities from highest to lowest weight.

If the function does not exist then a numerical sort on the attribute value is performed.

```
my @portsorted = rrsort( "SRV", "port", @rr_array );
```

If the attribute is not defined then either the `C<default_sort()>` function or "canonical sorting" (as defined by DNSSEC) will be used.

`C<rrsort()>` returns a sorted array containing only elements of the specified RR type. Any other RR types are silently discarded.

`C<rrsort()>` returns an empty list when arguments are incorrect.

=head1 EXAMPLES

The following brief examples illustrate some of the features of `Net::DNS`. The documentation for individual modules and the demo scripts included with the distribution provide more extensive examples.

See `L<Net::DNS::Update>` for an example of performing dynamic updates.

=head2 Look up host addresses.

```
use Net::DNS;
my $res = Net::DNS::Resolver->new;
my $reply = $res->search("www.example.com", "AAAA");

if ($reply) {
foreach my $rr ($reply->answer) {
    print $rr->address, "\n" if $rr->can("address");
}
} else {
warn "query failed: ", $res->errorstring, "\n";
}
```

=head2 Find the nameservers for a domain.

```
use Net::DNS;
my $res = Net::DNS::Resolver->new;
my $reply = $res->query("example.com", "NS");

if ($reply) {
foreach $rr (grep { $_->type eq "NS" } $reply->answer) {
    print $rr->nsdname, "\n";
}
} else {
warn "query failed: ", $res->errorstring, "\n";
}
```

=head2 Find the MX records for a domain.

```
use Net::DNS;
my $name = "example.com";
my $res = Net::DNS::Resolver->new;
my @mx = mx($res, $name);

if (@mx) {
foreach $rr (@mx) {
    print $rr->preference, "\t", $rr->exchange, "\n";
}
} else {
warn "Can not find MX records for $name: ", $res->errorstring, "\n";
}
```

=head2 Print domain SOA record in zone file format.

```
use Net::DNS;
my $res = Net::DNS::Resolver->new;
my $reply = $res->query("example.com", "SOA");

if ($reply) {
foreach my $rr ($reply->answer) {
    $rr->print;
}
} else {
warn "query failed: ", $res->errorstring, "\n";
}
```

=head2 Perform a zone transfer and print all the records.

```
use Net::DNS;
my $res = Net::DNS::Resolver->new;
$res->tcp_timeout(20);
$res->nameservers("ns.example.com");

my @zone = $res->axfr("example.com");

foreach $rr (@zone) {
    $rr->print;
}

warn $res->errorstring if $res->errorstring;
```

=head2 Perform a background query and print the reply.


```
use Net::DNS;
my $res = Net::DNS::Resolver->new;
$res->udp_timeout(10);
$res->tcp_timeout(20);
my $socket = $res->bgsend("host.example.com", "AAAA");

while ( $res->bgbusy($socket) ) {
# do some work here while waiting for the response
# ...and some more here
}

my $packet = $res->bgsread($socket);
if ($packet) {
$packet->print;
} else {
warn "query failed: ", $res->errorstring, "\n";
}
```

=head1 BUGS

Net::DNS is slow.

For other items to be fixed, or if you discover a bug in this distribution please use the CPAN bug reporting system.

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=head1 AUTHOR INFORMATION

Net::DNS is maintained at NLnet Labs (www.nlnetlabs.nl) by Willem Toorop.

Between 2005 and 2012 Net::DNS was maintained by Olaf Kolkman.

Between 2002 and 2004 Net::DNS was maintained by Chris Reinhardt.

Net::DNS was created in 1997 by Michael Fuhr.

=head1 SEE ALSO

L<perl>, L<Net::DNS::Resolver>, L<Net::DNS::Question>, L<Net::DNS::RR>, L<Net::DNS::Packet>, L<Net::DNS::Update>, RFC1035, L<<http://www.net-dns.org/>>, I<DNS and BIND> by Paul Albitz & Cricket Liu

=cut

Found in path(s):

* /opt/cola/permits/1146928913_1616836868.34/0/libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS.pm

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=head1 SYNOPSIS

```
use Net::DNS;
$r = new Net::DNS::RR('client.example.com. DHCID ( AAAB
xLmlskllE0MVjd57zHcWmEH3pCQ6VytcdK//7es/deY=');
```

```
$r = new Net::DNS::RR(
name      => 'client.example.com',
type      => 'DHCID',
digest    => 'ObfuscatedIdentityData',
```

```
digesttype => 1,  
identifiertype => 2,  
);
```

=head1 DESCRIPTION

DNS RR for Encoding DHCP Information (DHCID)

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

=head2 identifiertype

```
$identifiertype = $rr->identifiertype;  
$rr->identifiertype( $identifiertype );
```

The 16-bit identifier type describes the form of host identifier used to construct the DHCP identity information.

=head2 digesttype

```
$digesttype = $rr->digesttype;  
$rr->digesttype( $digesttype );
```

The 8-bit digest type number describes the message-digest algorithm used to obfuscate the DHCP identity information.

=head2 digest

```
$digest = $rr->digest;  
$rr->digest( $digest );
```

Binary representation of the digest of DHCP identity information.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, RFC4701

=cut

Found in path(s):

* /opt/cola/permits/1146928913_1616836868.34/0/libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/RR/DHCID.pm

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=head1 SEE ALSO

L<perl>, L<Net::DNS>

=cut

Found in path(s):

* /opt/cola/permits/1146928913_1616836868.34/0/libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-

1.22/contrib/find_zonecut

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#####

=head1 BUGS

Coding strategy is intended to avoid creating unnecessary argument lists and stack frames. This improves efficiency at the expense of code readability.

Platform specific character coding features are conditionally compiled into the code.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::LibIDN2>, RFC1034, RFC1035, RFC5891, Unicode TR#16

=cut

Found in path(s):

```
* /opt/cola/permits/1146928913_1616836868.34/0/libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/Domain.pm
```

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=head1 SYNOPSIS

```
use Net::DNS;  
$rr = new Net::DNS::RR('name X25 PSDNaddress');
```

=head1 DESCRIPTION

Class for DNS X25 resource records.

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

=head2 PSDNaddress

=head2 address

```
$address = $rr->address;  
$rr->address( $address );
```

The PSDN-address is a string of decimal digits, beginning with the 4 digit DNIC (Data Network Identification Code), as specified in X.121.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, RFC1183 Section 3.1

=cut

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* /opt/cola/permits/1146928913_1616836868.34/0/libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/RR/X25.pm

No license file was found, but licenses were detected in source scan.

=head1 SYNOPSIS

```
use Net::DNS;
$rr = new Net::DNS::RR('name MB madname');
```

=head1 DESCRIPTION

Class for DNS Mailbox (MB) resource records.

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

=head2 madname

```
$madname = $rr->madname;  
$rr->madname( $madname );
```

A domain name which specifies a host which has the specified mailbox.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, RFC1035 Section 3.3.3

=cut

Found in path(s):

```
* /opt/cola/permits/1146928913_1616836868.34/0/libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/RR/MB.pm
```

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=head1 SYNOPSIS


```
use Net::DNS;  
$rr = new Net::DNS::RR('name NSEC3 algorithm flags iterations salt hnxname');
```

=head1 DESCRIPTION

Class for DNSSEC NSEC3 resource records.

The NSEC3 Resource Record (RR) provides authenticated denial of existence for DNS Resource Record Sets.

The NSEC3 RR lists RR types present at the original owner name of the NSEC3 RR. It includes the next hashed owner name in the hash order of the zone. The complete set of NSEC3 RRs in a zone indicates which RRsets exist for the original owner name of the RR and form a chain of hashed owner names in the zone.

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

=head2 algorithm

```
$algorithm = $rr->algorithm;  
$rr->algorithm( $algorithm );
```

The Hash Algorithm field is represented as an unsigned decimal integer. The value has a maximum of 255.

algorithm() may also be invoked as a class method or simple function to perform mnemonic and numeric code translation.

=head2 flags

```
$flags = $rr->flags;  
$rr->flags( $flags );
```

The Flags field is an unsigned decimal integer interpreted as eight concatenated Boolean values.

=over 4

=item optout

```
$rr->optout(1);
```

```
if ( $rr->optout ) {  
  ...  
}
```

Boolean Opt Out flag.

```
=back
```

```
=head2 iterations
```

```
$iterations = $rr->iterations;  
$rr->iterations( $iterations );
```

The Iterations field is represented as an unsigned decimal integer. The value is between 0 and 65535, inclusive.

```
=head2 salt
```

```
$salt = $rr->salt;  
$rr->salt( $salt );
```

The Salt field is represented as a contiguous sequence of hexadecimal digits. A "-" (unquoted) is used in string format to indicate that the salt field is absent.

```
=head2 saltbin
```

```
$saltbin = $rr->saltbin;  
$rr->saltbin( $saltbin );
```

The Salt field as a sequence of octets.

```
=head2 hnxtname
```

```
$hnxtname = $rr->hnxtname;  
$rr->hnxtname( $hnxtname );
```

The Next Hashed Owner Name field points to the next node that has authoritative data or contains a delegation point NS RRset.

```
=head2 typelist
```

```
@typelist = $rr->typelist;  
$typelist = $rr->typelist;  
$rr->typelist( @typelist );
```

typelist() identifies the RRset types that exist at the domain name matched by the NSEC3 RR. When called in scalar context, the list is interpolated into a string.

=head2 typemap

```
$exists = $rr->typemap($rrtype);
```

typemap() returns a Boolean true value if the specified RRtype occurs in the type bitmap of the NSEC3 record.

=head2 match

```
$matched = $rr->match( 'example.foo' );
```

match() returns a Boolean true value if the hash of the domain name argument matches the hashed owner name of the NSEC3 RR.

=head2 covers

```
$covered = $rr->covers( 'example.foo' );
```

covers() returns a Boolean true value if the hash of the domain name argument, or ancestor of that name, falls between the owner name and the next hashed owner name of the NSEC3 RR.

=head2 encloser, nextcloser, wildcard

```
$encloser = $rr->encloser( 'example.foo' );  
print "encloser: $encloser\n" if $encloser;
```

encloser() returns the name of a provable encloser of the query name argument obtained from the NSEC3 RR.

nextcloser() returns the next closer name, which is one label longer than the closest encloser.

This is only valid after encloser() has returned a valid domain name.

wildcard() returns the unexpanded wildcard name from which the next closer name was possibly synthesised.

This is only valid after encloser() has returned a valid domain name.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, RFC5155, RFC4648

L<Hash Algorithms|http://www.iana.org/assignments/dnssec-nsec3-parameters>

=cut

Found in path(s):

* /opt/cola/permits/1146928913_1616836868.34/0/libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/RR/NSEC3.pm

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::Domain>, RFC1035, RFC2535, RFC3597, RFC4034

=cut

Found in path(s):

* /opt/cola/permits/1146928913_1616836868.34/0/libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/DomainName.pm

No license file was found, but licenses were detected in source scan.

=head1 SYNOPSIS

```
use Net::DNS::Resolver;
```

=head1 DESCRIPTION

This class implements the OS specific portions of C<Net::DNS::Resolver>.

No user serviceable parts inside, see L<Net::DNS::Resolver> for all your resolving needs.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::Resolver>

=cut

Found in path(s):

* /opt/cola/permits/1146928913_1616836868.34/0/libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/Resolver/MSWin32.pm

No license file was found, but licenses were detected in source scan.

=head1 SYNOPSIS

```
use Net::DNS;
$rr = new Net::DNS::RR('name MR newname');
```

=head1 DESCRIPTION

Class for DNS Mail Rename (MR) resource records.

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

=head2 newname

```
$newname = $rr->newname;  
$rr->newname( $newname );
```

A domain name which specifies a mailbox which is the proper rename of the specified mailbox.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, RFC1035 Section 3.3.8

=cut

Found in path(s):

```
* /opt/cola/permits/1146928913_1616836868.34/0/libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/RR/MR.pm
```

No license file was found, but licenses were detected in source scan.

=head1 SYNOPSIS

```
use Net::DNS;
$rr = new Net::DNS::RR('name IN AAAA address');

$rr = new Net::DNS::RR(
name => 'example.com',
type => 'AAAA',
address => '2001:DB8::8:800:200C:417A'
);
```

=head1 DESCRIPTION

Class for DNS IPv6 Address (AAAA) resource records.

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

=head2 address

```
$IPv6_address = $rr->address;
```

Returns the text representation of the IPv6 address.

=head2 address_long

```
$IPv6_address = $rr->address_long;
```

Returns the text representation specified in RFC3513, 2.2(1).

=head2 address_short

```
$IPv6_address = $rr->address_short;
```

Returns the textual form of address recommended by RFC5952.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, RFC3596, RFC3513, RFC5952

=cut

Found in path(s):

* /opt/cola/permits/1146928913_1616836868.34/0/libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/RR/AAAA.pm

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=head1 SYNOPSIS

```
use Net::DNS;
$rrr = new Net::DNS::RR('name RT preference intermediate');
```

=head1 DESCRIPTION

Class for DNS Route Through (RT) resource records.

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

=head2 preference

```
$preference = $rr->preference;  
$rr->preference( $preference );
```

A 16 bit integer representing the preference of the route.
Smaller numbers indicate more preferred routes.

=head2 intermediate

```
$intermediate = $rr->intermediate;  
$rr->intermediate( $intermediate );
```

The domain name of a host which will serve as an intermediate in reaching the host specified by the owner name.
The DNS RRs associated with the intermediate host are expected to include at least one A, X25, or ISDN record.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, RFC1183 Section 3.3

=cut

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* /opt/cola/permits/1146928913_1616836868.34/0/libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/RR/RT.pm

No license file was found, but licenses were detected in source scan.

=head1 SYNOPSIS

```
use Net::DNS::Resolver;
```

=head1 DESCRIPTION

This class implements the OS specific portions of C<Net::DNS::Resolver>.

No user serviceable parts inside, see L<Net::DNS::Resolver> for all your resolving needs.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::Resolver>

=cut

Found in path(s):

* /opt/cola/permits/1146928913_1616836868.34/0/libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/Resolver/UNIX.pm

No license file was found, but licenses were detected in source scan.

Net::DNS - Perl DNS Resolver Module

=====

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1. DESCRIPTION

Net::DNS is a DNS resolver implemented in Perl. It allows the programmer to perform nearly any type of DNS query from a Perl script. For details and examples, please read the Net::DNS manual page.

To read about the latest features, see the Changes file. To find out about known bugs and to see what is planned for future versions, see the CPAN RT ticket list.

The author invites feedback on Net::DNS. If there is something you would like to have added, please let me know. If you find a bug, please send me the information described in the BUGS section below.

See <http://www.net-dns.org/blog/> for announcements about Net::DNS.

2. AVAILABILITY

You can get the latest version of Net::DNS from the Comprehensive Perl Archive Network (CPAN) or from the module's homepage:

<https://metacpan.org/release/Net-DNS>

or through

<http://www.net-dns.org/>

Additionally a subversion repository is made available through

<http://www.net-dns.org/svn/net-dns/>

The version on the "trunk" (<http://www.net-dns.org/svn/net-dns/trunk>) is the version that is targeted for next release.

Please note that the SVN version at any given moment may be broken.

3. PREREQUISITES

The availability of prerequisites for Net::DNS is tested at installation time. These are the core packages that need to be available:

Digest::HMAC

Digest::MD5

Digest::SHA

File::Spec

IO::Socket

MIME::Base64

Time::Local

Test::More

The availability of these optional packages is tested at runtime:

Digest::BubbleBabble

IO::Socket::IP

Net::DNS::SEC

Net::LibIDN2

You can obtain the latest version of Perl from:

<http://www.cpan.org>

Some of the demonstration and contributed scripts may require additional modules -- see demo/README and contrib/README for details.

Note that the Test::More module is actually part of the Test-Simple distribution. See the FAQ ([lib/Net/DNS/FAQ.pod](#)) for more information.

4. INSTALLATION

Please install any modules mentioned in the PREREQUISITES section above. If you do not, some features of Net::DNS will not work. When you run "perl Makefile.PL", Perl should complain if any of the required modules is missing.

To build this module, run the following commands:

```
tar xvzf Net-DNS-?.?.tar.gz
```

```
cd Net-DNS-?.??
```

```
perl Makefile.PL
```

```
make
```

```
make test
```

```
make install
```

If you do not wish to run the online tests, the '--no-online-tests' option can be used. Similarly, '--online-tests' will enable the online tests. Online tests will be run by default, but the result will not adversely affect the outcome of test suite.

Also, if you do not wish to run the IPv6 tests, the '--no-IPv6-tests' option can be used. Similarly, '--IPv6-tests' will enable the IPv6 tests.

5. RUNNING TESTS

If any of the tests fail, please contact the author with the output from the following command:

```
make test TEST_VERBOSE=1
```

6. DEMONSTRATION SCRIPTS

There are a few demonstration scripts in the demo/ directory -- see demo/README for more information. Contributed scripts are in the contrib/ directory -- see contrib/README.

The author would be happy to include any contributed scripts in future versions of this module. All I ask is that they be documented (preferably using POD) and that the contributor's name and contact information be mentioned somewhere.

7. DYNAMIC UPDATES

Net::DNS supports DNS dynamic updates as documented in RFC 2136; for more information and examples, please see the Net::DNS::Update manual page.

Here is a summary of the update semantics for those interested (see RFC 2136 for details):

PREREQUISITE SECTION

```
# RRs NAME TTL CLASS TYPE RDLENGTH RDATA
-----
yxrset 1 name 0 ANY type 0 empty
yxrset 1+ name 0 class type rlength rdata
nxrset 1 name 0 NONE type 0 empty
yxdomain 1 name 0 ANY ANY 0 empty
nxdomain 1 name 0 NONE ANY 0 empty
```

UPDATE SECTION

```
# RRs NAME TTL CLASS TYPE RDLENGTH RDATA
-----
add RRs 1+ name ttl class type rlength rdata
del RRset 1 name 0 ANY type 0 empty
del all RRsets 1 name 0 ANY ANY 0 empty
del RRs 1+ name 0 NONE type rlength rdata
```

8. SIGNED QUERIES & UPDATES

Net::DNS supports the TSIG resource record to perform signed queries and updates (RFC 2845). See the Net::DNS::Packet and Net::DNS::Update manual pages for examples.

If you're using the BIND nameserver, the BIND FAQ shows how to generate keys and configure the nameserver to use them:

<http://www.nominum.com/resources/faqs/bind-faq.html>

TSIG support is new and isn't yet complete. Please use with caution on production systems. Feedback on TSIG functionality would be most welcome.

9. DNSSEC

The extensions to enable the DNSSEC signature generation and verification functions are distributed separately as Net::DNS::SEC. The package is available from CPAN.

10. BUGS

Net::DNS, although begun in 1997, is still under development and may still contain a few bugs. Please see CPAN RT and Changes file for more information.

We recommend that you exercise caution when using Net::DNS to maintain a production nameserver via dynamic updates. Always test your code **thoroughly**. The Net::DNS authors accept no blame if you corrupt your zone. That warning in place, We are aware of one large company that has used Net::DNS to make thousands of dynamic updates per day for at least three years without any problems.

Please use the following form to submit bug reports:

<https://rt.cpan.org/NoAuth/ReportBug.html?Queue=Net-DNS>

If you find any bugs, please report each in a separate "rt.cpan.org" report along with the following information:

* subject field containing a concise descriptive summary

- * version of Perl (output of 'perl -V' is best)
- * version of Net::DNS
- * operating system type and version
- * version of nameserver (if known)
- * exact text of error message or description of problem
- * the shortest possible program that exhibits the problem
- * the specific queries you are making, if the fault can be demonstrated using Internet nameservers

If we do not have access to a system similar to yours, you may be asked to insert some debugging lines and report back on the results. The more focussed the help and information you provide, the better.

Net::DNS is currently maintained at NLnet Labs (www.nlnetlabs.nl) by: Willem Toorop.

Between 2005 and 2012 Net::DNS was maintained by: Olaf Kolkman and his team.

Between 2002 and 2004 Net::DNS was maintained by Chris Reinhardt.

Net::DNS was created in 1997 by Michael Fuhr.

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13. STAYING TUNED

<http://www.net-dns.org> is a web site dedicated to the development of Net::DNS. Announcements about Net::DNS and Net::DNS::SEC will be done through the Net::DNS weblog at <http://www.net-dns.org/blog/>. An RSS feed for the weblog is available.

If you want to have access to the latest and greatest code a subversion repository is made available through

<http://www.net-dns.org/svn/net-dns/>

The version on the "trunk" (<http://www.net-dns.org/svn/net-dns/trunk>) is the version that is targeted for next release.

Please note that code from the SVN repositories trunk and development branches may be broken at any time.

14. ACKNOWLEDGMENTS

Thanks to Mike for letting me take care of his baby.

Thanks to Chris for maintaining Net::DNS for a couple of years.

Thanks to Olaf for maintaining Net::DNS for over eight years.

Thanks to Rob Brown and Dick Franks for all their patches and input.

Thanks to all who have used Net::DNS and reported bugs, made suggestions, contributed code, and encouraged me to add certain features. Many of these people are mentioned by name in the Changes file; lack of mention should be considered an oversight and not a conscious act of omission.

Thanks to Larry Wall and all who have made Perl possible.

Thanks to Paul Albitz and Cricket Liu for allowing me [OK: that is Mike] to write the Net::DNS section in the programming chapter of DNS and BIND, 3rd Edition. This chapter in earlier editions was very helpful while I was developing Net::DNS, and I was proud to contribute to it.

Thanks to Paul Vixie and all who have worked on the BIND nameserver, which

I've used exclusively while developing Net::DNS.

Thanks to Andreas Gustafsson for DNAME support, and for all the work he has done on BIND 9.

Olaf acknowledges the RIPE NCC for allowing Net::DNS maintenance to take place as part of 'the job'.

Thanks to the team that maintains wireshark. Without its marvelous interface, debugging of bugs in wireformat would be so much more difficult.

Thanks to the thousands who participate in the open-source community. I have always developed Net::DNS using open-source systems and I am proud to make Net::DNS freely available to the world.

---- \$Id: README 1692 2018-07-06 08:55:39Z willem \$

Found in path(s):

* /opt/cola/permits/1146928913_1616836868.34/0/libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/README

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=head1 SYNOPSIS

```
use Net::DNS;
```

```
$rr = new Net::DNS::RR('name CDNSKEY flags protocol algorithm publickey');
```

=head1 DESCRIPTION

DNS Child DNSKEY resource record

This is a clone of the DNSKEY record and inherits all properties of the Net::DNS::RR::DNSKEY class.

Please see the L<Net::DNS::RR::DNSKEY> perl documentation for details.

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, L<Net::DNS::RR::DNSKEY>, RFC7344, RFC8078(erratum 5049)

=cut

Found in path(s):

* /opt/cola/permits/1146928913_1616836868.34/0/libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/RR/CDNSKEY.pm

No license file was found, but licenses were detected in source scan.

=head1 SYNOPSIS

```
use Net::DNS;
$r = new Net::DNS::RR('name ISDN ISDNaddress sa');
```

=head1 DESCRIPTION

Class for DNS ISDN resource records.

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

=head2 ISDNaddress

=head2 address

```
$address = $rr->address;  
$rr->address( $address );
```

The ISDN-address is a string of characters, normally decimal digits, beginning with the E.163 country code and ending with the DDI if any.

=head2 sa

```
$sa = $rr->sa;  
$rr->sa( $sa );
```

The optional subaddress (SA) is a string of hexadecimal digits.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, RFC1183 Section 3.2

=cut

Found in path(s):

```
* /opt/cola/permits/1146928913_1616836868.34/0/libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/RR/ISDN.pm
```

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=head1 SYNOPSIS

```
use Net::DNS;
$rr = new Net::DNS::RR("zone. ZONEMD 2018121500 1 0
FEBE3D4CE2EC2FFA4BA99D46CD69D6D29711E55217057BEE
7EB1A7B641A47BA7FED2DD5B97AE499FAFA4F22C6BD647DE");
```

=head1 DESCRIPTION

Class for DNS Zone Message Digest (ZONEMD) resource record.

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

=head2 serial

```
$serial = $rr->serial;
$rr->serial( $serial );
```

Unsigned 32-bit integer zone serial number.

=head2 digtype

```
$digtype = $rr->digtype;  
$rr->digtype( $digtype );
```

8-bit integer digest type field.

=head2 parameter

```
$parameter = $rr->parameter;  
$rr->parameter( $parameter );
```

Digest algorithm parameter field.

=head2 digest

```
$digest = $rr->digest;  
$rr->digest( $digest );
```

Hexadecimal representation of the digest over the zone content.

=head2 digestbin

```
$digestbin = $rr->digestbin;  
$rr->digestbin( $digestbin );
```

Binary representation of the digest over the zone content.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, draft-wessels-dns-zone-digest

=cut

Found in path(s):

* /opt/cola/permits/1146928913_1616836868.34/0/libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/RR/ZONEMD.pm

No license file was found, but licenses were detected in source scan.

=head1 SYNOPSIS

```
use Net::DNS::Resolver;
```

=head1 DESCRIPTION

This class implements the OS specific portions of C<Net::DNS::Resolver>.

No user serviceable parts inside, see L<Net::DNS::Resolver> for all your resolving needs.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::Resolver>

=cut

Found in path(s):

```
* /opt/cola/permits/1146928913_1616836868.34/0/libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/Resolver/android.pm
```

No license file was found, but licenses were detected in source scan.

=head1 SYNOPSIS

```
use Net::DNS;
$rr = new Net::DNS::RR('name IN NID preference nodeid');
```

```
$rr = new Net::DNS::RR(
name => 'example.com',
type => 'NID',
preference => 10,
nodeid => '8:800:200C:417A'
);
```

=head1 DESCRIPTION

Class for DNS Node Identifier (NID) resource records.

The Node Identifier (NID) DNS resource record is used to hold values for Node Identifiers that will be used for ILNP-capable nodes.

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

=head2 preference

```
$preference = $rr->preference;  
$rr->preference( $preference );
```

A 16 bit unsigned integer in network byte order that indicates the relative preference for this NID record among other NID records associated with this owner name. Lower values are preferred over higher values.

```
=head2 nodeid
```

```
$nodeid = $rr->nodeid;
```

The NodeID field is an unsigned 64-bit value in network byte order. The text representation uses the same syntax (i.e., groups of 4 hexadecimal digits separated by a colons) that is already used for IPv6 interface identifiers.

```
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```

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```
=head1 SEE ALSO
```

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, RFC6742

=cut

Found in path(s):

* /opt/cola/permits/1146928913_1616836868.34/0/libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/RR/NID.pm

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::DomainName>, L<Net::DNS::Packet>,
RFC 1035 Section 4.1.2

=cut

Found in path(s):

* /opt/cola/permits/1146928913_1616836868.34/0/libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/Question.pm

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=head1 NAME

Net::DNS::Parameters - DNS parameter assignments

=head1 SYNOPSIS

```
use Net::DNS::Parameters;
```

=head1 DESCRIPTION

Net::DNS::Parameters is a Perl package representing the DNS parameter allocation (key,value) tables as recorded in the definitive registry maintained and published by IANA.

=head1 FUNCTIONS

=head2 classbyname, typebyname, opcodebyname, rcodebyname, ednsotionbyname, dsotypebyname

Access functions which return the numerical code corresponding to the given mnemonic.

=head2 classbyval, typebyval, opcodebyval, rcodebyval, ednsotionbyval, dsotypebyval

Access functions which return the canonical mnemonic corresponding to the given numerical code.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>,
L<IANA Registry|<http://www.iana.org/assignments/dns-parameters>>

=cut

Found in path(s):

* /opt/cola/permits/1146928913_1616836868.34/0/libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/Parameters.pm

No license file was found, but licenses were detected in source scan.

=head1 SYNOPSIS

```
use Net::DNS::Resolver;
```

=head1 DESCRIPTION

This class implements the OS specific portions of C<Net::DNS::Resolver>.

No user serviceable parts inside, see L<Net::DNS::Resolver>
for all your resolving needs.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::Resolver>

=cut

Found in path(s):

```
* /opt/cola/permits/1146928913_1616836868.34/0/libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/Resolver/cygwin.pm
```

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=head1 SYNOPSIS

```
use Net::DNS;
$r = new Net::DNS::RR('name CNAME cname');
```

```
$r = new Net::DNS::RR(
name => 'alias.example.com',
type => 'CNAME',
cname => 'example.com',
);
```

=head1 DESCRIPTION

Class for DNS Canonical Name (CNAME) resource records.

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

=head2 cname

```
$cname = $rr->cname;  
$rr->cname( $cname );
```

A domain name which specifies the canonical or primary name for the owner. The owner name is an alias.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, RFC1035 Section 3.3.1

=cut

Found in path(s):

* /opt/cola/permits/1146928913_1616836868.34/0/libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/RR/CNAME.pm

No license file was found, but licenses were detected in source scan.

=head1 ACKNOWLEDGEMENT

This package is an improved and compatible reimplementaion of the Net::DNS::Resolver::Recurse.pm created by Rob Brown in 2002, whose contribution is gratefully acknowledged.

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=head1 SEE ALSO

L<Net::DNS::Resolver>

=cut

Found in path(s):

```
* /opt/cola/permits/1146928913_1616836868.34/0/libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/Resolver/Recurse.pm
```

No license file was found, but licenses were detected in source scan.

=head1 SYNOPSIS

```
use Net::DNS;  
$rr = new Net::DNS::RR('name RP mbox txtcname');
```

=head1 DESCRIPTION

Class for DNS Responsible Person (RP) resource records.

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

=head2 mbox

```
$mbox = $rr->mbox;  
$rr->mbox( $mbox );
```

A domain name which specifies the mailbox for the person responsible for this domain. The format in master files uses the DNS encoding convention for mailboxes, identical to that used for the RNAME mailbox field in the SOA RR. The root domain name (just ".") may be specified to indicate that no mailbox is available.

=head2 txtcname

```
$txtcname = $rr->txtcname;  
$rr->txtcname( $txtcname );
```

A domain name identifying TXT RRs. A subsequent query can be performed to retrieve the associated TXT records. This provides a level of indirection so that the entity can be referred to from multiple places in the DNS. The root domain name (just ".") may be specified to indicate that there is no associated TXT RR.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, RFC1183 Section 2.2

=cut

Found in path(s):

* /opt/cola/permits/1146928913_1616836868.34/0/libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/RR/RR.pm

No license file was found, but licenses were detected in source scan.

=head1 SYNOPSIS

```
use Net::DNS;
$r = new Net::DNS::RR('name IN L32 preference locator32');
```

```
$r = new Net::DNS::RR(
name => 'example.com',
type => 'L32',
preference => 10,
locator32 => '10.1.02.0'
```

);

=head1 DESCRIPTION

Class for DNS 32-bit Locator (L32) resource records.

The L32 resource record is used to hold 32-bit Locator values for ILNPv4-capable nodes.

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

=head2 preference

```
$preference = $rr->preference;  
$rr->preference( $preference );
```

A 16 bit unsigned integer in network byte order that indicates the relative preference for this L32 record among other L32 records associated with this owner name. Lower values are preferred over higher values.

=head2 locator32

```
$locator32 = $rr->locator32;
```

The Locator32 field is an unsigned 32-bit integer in network byte order that has the same syntax and semantics as a 32-bit IPv4 routing prefix.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, RFC6742

=cut

Found in path(s):

* /opt/cola/permits/1146928913_1616836868.34/0/libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/RR/L32.pm

No license file was found, but licenses were detected in source scan.

=head1 SYNOPSIS

```
use Net::DNS;
$rr = new Net::DNS::RR('name NAPTR order preference flags service regexp replacement');
```

=head1 DESCRIPTION

DNS Naming Authority Pointer (NAPTR) resource records.

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

=head2 order

```
$order = $rr->order;  
$rr->order( $order );
```

A 16-bit unsigned integer specifying the order in which the NAPTR records must be processed to ensure the correct ordering of rules. Low numbers are processed before high numbers.

=head2 preference

```
$preference = $rr->preference;  
$rr->preference( $preference );
```

A 16-bit unsigned integer that specifies the order in which NAPTR records with equal "order" values should be processed, low numbers being processed before high numbers.

=head2 flags

```
$flags = $rr->flags;  
$rr->flags( $flags );
```

A string containing flags to control aspects of the rewriting and interpretation of the fields in the record. Flags are single characters from the set [A-Z0-9].

=head2 service

```
$service = $rr->service;  
$rr->service( $service );
```

Specifies the service(s) available down this rewrite path. It may also specify the protocol used to communicate with the service.

=head2 regexp

```
$regexp = $rr->regexp;  
$rr->regexp;
```

A string containing a substitution expression that is applied to the original string held by the client in order to construct the next domain name to lookup.

=head2 replacement

```
$replacement = $rr->replacement;  
$rr->replacement( $replacement );
```

The next NAME to query for NAPTR, SRV, or address records depending on the value of the flags field.

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Based on code contributed by Ryan Moats.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, RFC2915, RFC2168, RFC3403

=cut

Found in path(s):

* /opt/cola/permits/1146928913_1616836868.34/0/libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/RR/NAPTR.pm

No license file was found, but licenses were detected in source scan.

=head1 SYNOPSIS

```
use Net::DNS;  
$tsig = create Net::DNS::RR::TSIG( $keyfile );  
  
$tsig = create Net::DNS::RR::TSIG( $keyfile,  
    fudge => 300  
);
```

=head1 DESCRIPTION

Class for DNS Transaction Signature (TSIG) resource records.

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

=head2 algorithm

```
$algorithm = $rr->algorithm;  
$rr->algorithm( $algorithm );
```

A domain name which specifies the name of the algorithm.

=head2 key

```
$rr->key( $key );
```

Base64 representation of the key material.

=head2 keybin

```
$rr->keybin( $keybin );
```

Binary representation of the key material.

=head2 time_signed

```
$time_signed = $rr->time_signed;  
$rr->time_signed( $time_signed );
```

Signing time as the number of seconds since 1 Jan 1970 00:00:00 UTC.

The default signing time is the current time.

=head2 fudge

```
$fudge = $rr->fudge;  
$rr->fudge( $fudge );
```

"fudge" represents the permitted error in the signing time.

The default fudge is 300 seconds.

=head2 mac

```
$rr->mac( $mac );
```

Message authentication code (MAC).

The programmer must call the Net::DNS::Packet data() object method before this will return anything meaningful.

=head2 macbin

```
$macbin = $rr->macbin;  
$rr->macbin( $macbin );
```

Binary message authentication code (MAC).

=head2 prior_mac

```
$prior_mac = $rr->prior_mac;  
$rr->prior_mac( $prior_mac );
```

Prior message authentication code (MAC).

=head2 prior_macbin

```
$prior_macbin = $rr->prior_macbin;  
$rr->prior_macbin( $prior_macbin );
```

Binary prior message authentication code.

=head2 request_mac

```
$request_mac = $rr->request_mac;  
$rr->request_mac( $request_mac );
```

Request message authentication code (MAC).

=head2 request_macbin


```
$request_macbin = $rr->request_macbin;
$rr->request_macbin( $request_macbin );
```

Binary request message authentication code.

```
=head2 original_id
```

```
$original_id = $rr->original_id;
$rr->original_id( $original_id );
```

The message ID from the header of the original packet.

```
=head2 error
```

```
=head2 vrfyerrstr
```

```
$rcode = $tsig->error;
```

Returns the RCODE covering TSIG processing. Common values are NOERROR, BADSIG, BADKEY, and BADTIME. See RFC 2845 for details.

```
=head2 other
```

```
$other = $tsig->other;
```

This field should be empty unless the error is BADTIME, in which case it will contain the server time as the number of seconds since 1 Jan 1970 00:00:00 UTC.

```
=head2 sig_function
```

```
sub signing_function {
my ( $keybin, $data ) = @_ ;

my $hmac = new Digest::HMAC( $keybin, 'Digest::MD5' );
$hmac->add( $data );
return $hmac->digest;
}

$tsig->sig_function( \&signing_function );
```

This sets the signing function to be used for this TSIG record. The default signing function is HMAC-MD5.

```
=head2 sig_data
```

```
$sigdata = $tsig->sig_data($packet);
```

Returns the packet packed according to RFC2845 in a form for signing. This is only needed if you want to supply an external signing function, such as is needed for TSIG-GSS.

```
=head2 create
```

```
$tsig = create Net::DNS::RR::TSIG( $keyfile );
```

```
$tsig = create Net::DNS::RR::TSIG( $keyfile,  
    fudge => 300  
);
```

Returns a TSIG RR constructed using the parameters in the specified key file, which is assumed to have been generated by dnssec-keygen.

```
$tsig = create Net::DNS::RR::TSIG( $keyname, $key );
```

The two argument form is supported for backward compatibility.

```
=head2 verify
```

```
$verify = $tsig->verify( $data );  
$verify = $tsig->verify( $packet );
```

```
$verify = $tsig->verify( $reply, $query );
```

```
$verify = $tsig->verify( $packet, $prior );
```

The boolean verify method will return true if the hash over the packet data conforms to the data in the TSIG itself

```
=head1 TSIG Keys
```

TSIG keys are symmetric keys generated using dnssec-keygen:

```
$ dnssec-keygen -a HMAC-SHA1 -b 160 -n HOST <keyname>
```

The key will be stored as a private and public keyfile pair
K<keyname>+161+<keyid>.private and K<keyname>+161+<keyid>.key

where

<keyname> is the DNS name of the key.

<keyid> is the (generated) numerical identifier used to

distinguish this key.

Other algorithms may be substituted for HMAC-SHA1 in the above example.

It is recommended that the keyname be globally unique and incorporate the fully qualified domain names of the resolver and nameserver in that order. It should be possible for more than one key to be in use simultaneously between any such pair of hosts.

Although the formats differ, the private and public keys are identical and both should be stored and handled as secret data.

=head1 Configuring BIND Nameserver

The following lines must be added to the /etc/named.conf file:

```
key <keyname> {  
algorithm HMAC-SHA1;  
secret "<keydata>";  
};
```

<keyname> is the name of the key chosen when the key was generated.

<keydata> is the key string extracted from the generated key file.

=head1 ACKNOWLEDGMENT

Most of the code in the Net::DNS::RR::TSIG module was contributed by Chris Turbeville.

Support for external signing functions was added by Andrew Tridgell.

TSIG verification, BIND keyfile handling and support for HMAC-SHA1, HMAC-SHA224, HMAC-SHA256, HMAC-SHA384 and HMAC-SHA512 functions was added by Dick Franks.

=head1 BUGS

A 32-bit representation of time is used, contrary to RFC2845 which demands 48 bits. This design decision will need to be reviewed before the code stops working on 7 February 2106.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, RFC2845, RFC4635

L<TSIG Algorithm Names|<http://www.iana.org/assignments/tsig-algorithm-names>>

=cut

Found in path(s):

* /opt/cola/permits/1146928913_1616836868.34/0/libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/RR/TSIG.pm

No license file was found, but licenses were detected in source scan.

abstract: 'Perl Interface to the Domain Name System'

author:

- 'Dick Franks'
- 'Olaf Kolkman'

```
- 'Michael Fuhr'
build_requires:
  ExtUtils::MakeMaker: '0'
configure_requires:
  ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.34, CPAN::Meta::Converter version 2.150010'
license: mit
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: '1.4'
name: Net-DNS
no_index:
  directory:
    - t
    - inc
recommends:
  Digest::BubbleBabble: '0.01'
  Net::LibIDN2: '1'
requires:
  Digest::HMAC: '1.03'
  Digest::MD5: '2.13'
  Digest::SHA: '5.23'
  File::Spec: '0.86'
  IO::File: '1.08'
  IO::Select: '1.14'
  IO::Socket::IP: '0.38'
  MIME::Base64: '2.13'
  PerlIO: '1.05'
  Scalar::Util: '1.25'
  Test::More: '0.52'
  Time::Local: '1.19'
  perl: '5.006'
  version: '1.22'
x_serialization_backend: 'CPAN::Meta::YAML version 0.018'
```

Found in path(s):

```
* /opt/cola/permits/1146928913_1616836868.34/0/libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/META.yml
```

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=head1 SYNOPSIS

```
use Net::DNS;
$r = new Net::DNS::RR('name IPSECKEY precedence gatetype algorithm gateway key');
```

=head1 DESCRIPTION

DNS IPSEC Key Storage (IPSECKEY) resource records.

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

=head2 precedence

```
$precedence = $rr->precedence;  
$rr->precedence( $precedence );
```

This is an 8-bit precedence for this record. Gateways listed in IPSECKEY records with lower precedence are to be attempted first.

=head2 gatetype

```
$gatetype = $rr->gatetype;
```

The gateway type field indicates the format of the information that is stored in the gateway field.

=head2 algorithm

```
$algorithm = $rr->algorithm;  
$rr->algorithm( $algorithm );
```

The algorithm type field identifies the public keys cryptographic algorithm and determines the format of the public key field.

=head2 gateway

```
$gateway = $rr->gateway;  
$rr->gateway( $gateway );
```

The gateway field indicates a gateway to which an IPsec tunnel may be created in order to reach the entity named by this resource record.

=head2 pubkey

=head2 key

```
$key = $rr->key;  
$rr->key( $key );
```

Base64 representation of the optional public key block for the resource record.

```
=head2 keybin
```

```
$keybin = $rr->keybin;  
$rr->keybin( $keybin );
```

Binary representation of the public key block for the resource record.

```
=head1 COPYRIGHT
```

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```
=head1 SEE ALSO
```

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, RFC4025

```
=cut
```

Found in path(s):

```
* /opt/cola/permits/1146928913_1616836868.34/0/libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/RR/IPSECKEY.pm
```

No license file was found, but licenses were detected in source scan.

=head1 SYNOPSIS

```
use Net::DNS;  
$rr = new Net::DNS::RR('name LOC latitude longitude altitude size hp vp');
```

=head1 DESCRIPTION

DNS geographical location (LOC) resource records.

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

=head2 latitude

```
$latitude = $rr->latitude;  
($deg, $min, $sec, $ns) = $rr->latitude;
```

```
$rr->latitude( 42.357990 );  
$rr->latitude( 42, 21, 28.764, 'N' );  
$rr->latitude( '42 21 28.764 N' );
```

When invoked in scalar context, latitude is returned in degrees, a negative ordinate being south of the equator.

When invoked in list context, latitude is returned as a list of separate degree, minute, and second values followed by N or S as appropriate.

Optional replacement values may be represented as single value, list or formatted string. Trailing zero values are optional.

=head2 longitude

```
$longitude = $rr->longitude;  
($deg, $min, $sec, $ew) = $rr->longitude;
```

```
$rr->longitude( -71.014338 );
```



```
$rr->longitude( 71, 0, 51.617, 'W' );  
$rr->longitude( '71 0 51.617 W' );
```

When invoked in scalar context, longitude is returned in degrees, a negative ordinate being west of the prime meridian.

When invoked in list context, longitude is returned as a list of separate degree, minute, and second values followed by E or W as appropriate.

=head2 altitude

```
$altitude = $rr->altitude;
```

Represents altitude, in metres, relative to the WGS 84 reference spheroid used by GPS.

=head2 size

```
$size = $rr->size;
```

Represents the diameter, in metres, of a sphere enclosing the described entity.

=head2 hp

```
$hp = $rr->hp;
```

Represents the horizontal precision of the data expressed as the diameter, in metres, of the circle of error.

=head2 vp

```
$vp = $rr->vp;
```

Represents the vertical precision of the data expressed as the total spread, in metres, of the distribution of possible values.

=head2 latlon

```
($lat, $lon) = $rr->latlon;  
$rr->latlon($lat, $lon);
```

Representation of the latitude and longitude coordinate pair as signed floating-point degrees.

=head2 version

\$version = \$rr->version;

Version of LOC protocol.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, RFC1876

=cut

Found in path(s):

* /opt/cola/permits/1146928913_1616836868.34/0/libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/RR/LOC.pm

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=head1 SYNOPSIS

```
use Net::DNS;  
$rr = new Net::DNS::RR('name SRV priority weight port target');
```

=head1 DESCRIPTION

Class for DNS Service (SRV) resource records.

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

=head2 priority

```
$priority = $rr->priority;  
$rr->priority( $priority );
```

Returns the priority for this target host.

=head2 weight

```
$weight = $rr->weight;  
$rr->weight( $weight );
```

Returns the weight for this target host.

=head2 port

```
$port = $rr->port;  
$rr->port( $port );
```

Returns the port number for the service on this target host.

=head2 target

```
$target = $rr->target;  
$rr->target( $target );
```

Returns the domain name of the target host.

=head1 Sorting of SRV Records

By default, rrsort() returns the SRV records sorted from lowest to highest

priority and for equal priorities from highest to lowest weight.

Note: This is NOT the order in which connections should be attempted.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, RFC2782

=cut

Found in path(s):

* /opt/cola/permits/1146928913_1616836868.34/0/libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/RR/SRV.pm

No license file was found, but licenses were detected in source scan.

=head1 SYNOPSIS

```
use Net::DNS;  
$rr = new Net::DNS::RR('name OPENPGPKEY key');
```

=head1 DESCRIPTION

Class for OpenPGP Key (OPENPGPKEY) resource records.

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

=head2 key

```
$key = $rr->key;  
$rr->key( $key );
```

Base64 encoded representation of the OpenPGP public key material.

=head2 keybin

```
$keybin = $rr->keybin;  
$rr->keybin( $keybin );
```

OpenPGP public key material consisting of a single OpenPGP transferable public key in RFC4880 format.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, RFC7929

=cut

Found in path(s):

```
* /opt/cola/permits/1146928913_1616836868.34/0/libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/RR/OPENPGPKEY.pm
```

No license file was found, but licenses were detected in source scan.

=head1 METHODS

=head2 new

```
$nameserver = new Net::DNS::Nameserver(  
LocalAddr => ['::1', '127.0.0.1'],  
ZoneFile => "filename"  
);
```

```
$nameserver = new Net::DNS::Nameserver(  
LocalAddr => '10.1.2.3',  
LocalPort => 5353,  
ReplyHandler => \&reply_handler,  
Verbose => 1,  
Truncate => 0  
);
```

Returns a Net::DNS::Nameserver object, or undef if the object could not be created.

Each instance is configured using the following optional arguments:

LocalAddr IP address on which to listen Defaults to loopback address

LocalPort Port on which to listen Defaults to 53

ZoneFile Name of file containing RRs
accessed using the default
reply-handling subroutine
ReplyHandler Reference to customised
reply-handling subroutine
NotifyHandler Reference to reply-handling
subroutine for queries with
opcode NOTIFY (RFC1996)
UpdateHandler Reference to reply-handling
subroutine for queries with
opcode UPDATE (RFC2136)
Verbose Report internal activity Defaults to 0 (off)
Truncate Truncates UDP packets that
are too big for the reply Defaults to 1 (on)
IdleTimeout TCP clients are disconnected
if they are idle longer than
this duration Defaults to 120 (secs)

The LocalAddr attribute may alternatively be specified as a list of IP addresses to listen to.

If the IO::Socket::IP library package is available on the system this may also include IPv6 addresses.

The ReplyHandler subroutine is passed the query name, query class, query type and optionally an argument containing the peerhost, the incoming query, and the name of the incoming socket (sockethost). It must either return the response code and references to the answer, authority, and additional sections of the response, or undef to leave the query unanswered. Common response codes are:

NOERROR No error
FORMERR Format error
SERVFAIL Server failure
NXDOMAIN Non-existent domain (name doesn't exist)
NOTIMP Not implemented
REFUSED Query refused

For advanced usage it may also contain a headermask containing an href with the settings for the C<aa>, C<ra>, and C<ad> header bits. The argument is of the form
C<< { ad => 1, aa => 0, ra => 1 } >>.

EDNS options may be specified in a similar manner using optionmask
C<< { \$optioncode => \$value, \$optionname => \$value } >>.

See RFC 1035 and the IANA dns-parameters file for more information:

<ftp://ftp.rfc-editor.org/in-notes/rfc1035.txt>
<http://www.isi.edu/in-notes/iana/assignments/dns-parameters>

The nameserver will listen for both UDP and TCP connections. On Unix-like systems, the program will probably have to run as root to listen on the default port, 53. A non-privileged user should be able to listen on ports 1024 and higher.

UDP reply truncation functionality was introduced in VERSION 830. The size limit is determined by the EDNS0 size advertised in the query, otherwise 512 is used.

If you want to do packet truncation yourself you should set C<Truncate> to 0 and truncate the reply packet in the code of the ReplyHandler.

See L</EXAMPLE> for an example.

```
=head2 main_loop
```

```
    $ns->main_loop;
```

Start accepting queries. Calling main_loop never returns.

```
=head2 loop_once
```

```
    $ns->loop_once( [TIMEOUT_IN_SECONDS] );
```

Start accepting queries, but returns. If called without a parameter, the call will not return until a request has been received (and replied to). Otherwise, the parameter specifies the maximum time to wait for a request. A zero timeout forces an immediate return if there is nothing to do.

Handling a request and replying obviously depends on the speed of ReplyHandler. Assuming a fast ReplyHandler, loop_once should spend just a fraction of a second, if called with a timeout value of 0.0 seconds. One exception is when an AXFR has requested a huge amount of data that the OS is not ready to receive in full. In that case, it will remain in a loop (while servicing new requests) until the reply has been sent.

In case loop_once accepted a TCP connection it will immediately check if there is data to be read from the socket. If not it will return and you will have to call loop_once() again to check if there is any data waiting on the socket to be processed. In most cases you will have to count on calling "loop_once" twice.

A code fragment like:


```

$ns->loop_once(10);
while( $ns->get_open_tcp() ){
$ns->loop_once(0);
}

```

Would wait for 10 seconds for the initial connection and would then process all TCP sockets until none is left.

```
=head2 get_open_tcp
```

In scalar context returns the number of TCP connections for which state is maintained. In array context it returns IO::Socket objects, these could be useful for troubleshooting but be careful using them.

```
=head1 EXAMPLE
```

The following example will listen on port 5353 and respond to all queries for A records with the IP address 10.1.2.3. All other queries will be answered with NXDOMAIN. Authority and additional sections are left empty. The \$peerhost variable catches the IP address of the peer host, so that additional filtering on its basis may be applied.

```

#!/usr/bin/perl

use strict;
use warnings;
use Net::DNS::Nameserver;

sub reply_handler {
my ( $qname, $qclass, $qtype, $peerhost, $query, $conn ) = @_;
my ( $rcode, @ans, @auth, @add );

print "Received query from $peerhost to " . $conn->{sockhost} . "\n";
$query->print;

if ( $qtype eq "A" && $qname eq "foo.example.com" ) {
my ( $ttl, $rdata ) = ( 3600, "10.1.2.3" );
my $rr = new Net::DNS::RR("$qname $ttl $qclass $qtype $rdata");
push @ans, $rr;
$rcode = "NOERROR";
} elsif ( $qname eq "foo.example.com" ) {
$rcode = "NOERROR";

} else {
$rcode = "NXDOMAIN";
}
}

```

```

# mark the answer as authoritative (by setting the 'aa' flag)
my $headermask = { aa => 1 };

# specify EDNS options { option => value }
my $optionmask = {};

return ( $rcode, \@ans, \@auth, \@add, $headermask, $optionmask );
}

my $ns = new Net::DNS::Nameserver(
LocalPort => 5353,
ReplyHandler => \&reply_handler,
Verbose => 1
) || die "couldn't create nameserver object\n";

$ns->main_loop;

```

=head1 BUGS

Limitations in perl 5.8.6 makes it impossible to guarantee that replies to UDP queries from Net::DNS::Nameserver are sent from the IP-address they were received on. This is a problem for machines with multiple IP-addresses and causes violation of RFC2181 section 4. Thus a UDP socket created listening to INADDR_ANY (all available IP-addresses) will reply not necessarily with the source address being the one to which the request was sent, but rather with the address that the operating system chooses. This is also often called "the closest address". This should really only be a problem on a server which has more than one IP-address (besides localhost - any experience with IPv6 complications here, would be nice). If this is a problem for you, a work-around would be to not listen to INADDR_ANY but to specify each address that you want this module to listen on. A separate set of sockets will then be created for each IP-address.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::Resolver>, L<Net::DNS::Packet>, L<Net::DNS::Update>, L<Net::DNS::Header>, L<Net::DNS::Question>, L<Net::DNS::RR>, RFC 1035

=cut

Found in path(s):

* /opt/cola/permits/1146928913_1616836868.34/0/libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/Nameserver.pm

No license file was found, but licenses were detected in source scan.

=head1 SYNOPSIS

```
use Net::DNS;
$rr = new Net::DNS::RR('name MINFO rmailbx emailbx');
```

=head1 DESCRIPTION

Class for DNS Mailbox Information (MINFO) resource records.

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

=head2 rmailbx

```
$rmailbx = $rr->rmailbx;  
$rr->rmailbx( $rmailbx );
```

A domain name which specifies a mailbox which is responsible for the mailing list or mailbox. If this domain name names the root, the owner of the MINFO RR is responsible for itself. Note that many existing mailing lists use a mailbox X-request to identify the maintainer of mailing list X, e.g., Msggroup-request for Msggroup. This field provides a more general mechanism.

=head2 emailbx

```
$emailbx = $rr->emailbx;  
$rr->emailbx( $emailbx );
```

A domain name which specifies a mailbox which is to receive error messages related to the mailing list or mailbox specified by the owner of the MINFO RR (similar to the ERRORS-TO: field which has been proposed). If this domain name names the root, errors should be returned to the sender of the message.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, RFC1035 Section 3.3.7

=cut

Found in path(s):

* /opt/cola/permits/1146928913_1616836868.34/0/libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/RR/MINFO.pm

No license file was found, but licenses were detected in source scan.

=head1 SYNOPSIS

```
use Net::DNS::Resolver;
```

=head1 DESCRIPTION

This class implements the OS specific portions of C<Net::DNS::Resolver>.

No user serviceable parts inside, see L<Net::DNS::Resolver> for all your resolving needs.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::Resolver>

=cut

Found in path(s):

* /opt/cola/permits/1146928913_1616836868.34/0/libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/Resolver/os390.pm

No license file was found, but licenses were detected in source scan.

=head1 NAME

Net::DNS::Resolver::Base - DNS resolver base class

=head1 SYNOPSIS

```
use base qw(Net::DNS::Resolver::Base);
```

=head1 DESCRIPTION

This class is the common base class for the different platform sub-classes of L<Net::DNS::Resolver>.

No user serviceable parts inside, see L<Net::DNS::Resolver> for all your resolving needs.

=head1 METHODS

=head2 new, domain, searchlist, nameserver, nameservers,

=head2 search, query, send, bgsend, bgbusy, bgread, axfr,

=head2 force_v4, force_v6, prefer_v4, prefer_v6,

=head2 dnssec, srcaddr, tsig, udppacketsize,

=head2 print, string, errorstring, replyfrom

See L<Net::DNS::Resolver>.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::Resolver>

=cut

Found in path(s):

* /opt/cola/permits/1146928913_1616836868.34/0/libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/Resolver/Base.pm

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=head1 ACKNOWLEDGEMENTS

This package is designed as an improved and compatible replacement for Net::DNS::ZoneFile 1.04 which was created by Luis Munoz in 2002 as a separate CPAN module.

The present implementation is the result of an agreement to merge our two different approaches into one package integrated into Net::DNS. The contribution of Luis Munoz is gratefully acknowledged.

Thanks are also due to Willem Toorop for his constructive criticism of the initial version and invaluable assistance during testing.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, RFC1035 Section 5.1, RFC2308, BIND 9 Administrator Reference Manual

=cut

Found in path(s):

* /opt/cola/permits/1146928913_1616836868.34/0/libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/ZoneFile.pm

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#####

=head1 BUGS

Coding strategy is intended to avoid creating unnecessary argument lists and stack frames. This improves efficiency at the expense of code readability.

Platform specific character coding features are conditionally compiled into the code.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, RFC1035, RFC3629, Unicode TR#16

=cut

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* /opt/cola/permits/1146928913_1616836868.34/0/libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/Text.pm

No license file was found, but licenses were detected in source scan.

=head1 SYNOPSIS

```
use Net::DNS;  
$rr = new Net::DNS::RR('name CDS keytag algorithm digtype digest');
```

=head1 DESCRIPTION

DNS Child DS resource record

This is a clone of the DS record and inherits all properties of the Net::DNS::RR::DS class.

Please see the L<Net::DNS::RR::DS> perl documentation for details.

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, L<Net::DNS::RR::DS>, RFC7344, RFC8078(erratum 5049)

=cut

Found in path(s):

```
* /opt/cola/permits/1146928913_1616836868.34/0/libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/RR/CDS.pm
```

No license file was found, but licenses were detected in source scan.

=head1 SYNOPSIS

```
use Net::DNS;
$rr = new Net::DNS::RR('name IN EUI48 address');
```

```
$rr = new Net::DNS::RR(
    name => 'example.com',
    type => 'EUI48',
    address => '00-00-5e-00-53-2a'
);
```

=head1 DESCRIPTION

DNS resource records for 48-bit Extended Unique Identifier (EUI48).

The EUI48 resource record is used to represent IEEE Extended Unique Identifiers used in various layer-2 networks, ethernet for example.

EUI48 addresses SHOULD NOT be published in the public DNS. RFC7043 describes potentially severe privacy implications resulting from indiscriminate publication of link-layer addresses in the DNS.

=head1 METHODS

The available methods are those inherited from the base class augmented

by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

=head2 address

The address field is a 6-octet layer-2 address in network byte order.

The presentation format is hexadecimal separated by "-".

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, RFC7043

=cut

Found in path(s):

* /opt/cola/permits/1146928913_1616836868.34/0/libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/RR/EUI48.pm

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=head1 NAME

mresolv - Perform multiple DNS lookups in parallel

=head1 SYNOPSIS

B<mresolv> S<[B<-d>]> S<[B<-n> I<number>]> S<[B<-t> I<timeout>]>
S<[I<filename>...]>

=head1 DESCRIPTION

B<mresolv> performs multiple DNS lookups in parallel. Names to query are read from the list of files given on the command line, or from the standard input.

=head1 OPTIONS

=over 4

=item B<-d>

Turn on debugging output.

=item B<-n> I<number>

Set the number of queries to have outstanding at any time.

=item B<-t> I<timeout>

Set the timeout in seconds. If no replies are received for this amount of time, all outstanding queries will be flushed and new names will be read from the input stream.

=back

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=head1 SEE ALSO

L<perl(1)>, L<axfr>, L<check_soa>, L<check_zone>, L<mx>, L<perldig>, L<Net::DNS>

=cut

Found in path(s):

* /opt/cola/permits/1146928913_1616836868.34/0/libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/demo/mresolv
No license file was found, but licenses were detected in source scan.

=head1 SYNOPSIS

```
use Net::DNS;  
$rr = new Net::DNS::RR('name URI priority weight target');
```

=head1 DESCRIPTION

Class for DNS Service (URI) resource records.

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

=head2 priority

```
$priority = $rr->priority;  
$rr->priority( $priority );
```

The priority of the target URI in this RR.

The range of this number is 0-65535.

A client **MUST** attempt to contact the URI with the lowest-numbered priority it can reach; weighted selection being used to distribute load across targets with equal priority.

=head2 weight

```
$weight = $rr->weight;  
$rr->weight( $weight );
```

A server selection mechanism. The weight field specifies a relative weight for entries with the same priority. Larger weights **SHOULD** be given a proportionately higher probability of being selected. The range of this number is 0-65535.

=head2 target

```
$target = $rr->target;  
$rr->target( $target );
```

The URI of the target. Resolution of the URI is according to the definitions for the Scheme of the URI.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>,
RFC7553

=cut

Found in path(s):

```
* /opt/cola/permits/1146928913_1616836868.34/0/libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/RR/URI.pm
```

No license file was found, but licenses were detected in source scan.

=head1 SYNOPSIS

```
use Net::DNS;  
$rr = new Net::DNS::RR('name SSHFP algorithm fptype fp');
```

=head1 DESCRIPTION

DNS SSH Fingerprint (SSHFP) resource records.

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

=head2 algorithm

```
$algorithm = $rr->algorithm;  
$rr->algorithm( $algorithm );
```

The 8-bit algorithm number describes the algorithm used to construct the public key.

=head2 fptype

```
$fptype = $rr->fptype;  
$rr->fptype( $fptype );
```

The 8-bit fingerprint type number describes the message-digest algorithm used to calculate the fingerprint of the public key.

=head2 fingerprint

=head2 fp

```
$fp = $rr->fp;  
$rr->fp( $fp );
```

Hexadecimal representation of the fingerprint digest.

=head2 fpbin

```
$fpbin = $rr->fpbin;  
$rr->fpbin( $fpbin );
```


Returns opaque octet string representing the fingerprint digest.

```
=head2 babble
```

```
print $rr->babble;
```

The `babble()` method returns the 'BabbleBubble' representation of the fingerprint if the `Digest::BubbleBabble` package is available, otherwise an empty string is returned.

Bubble babble represents a message digest as a string of "real" words, to make the fingerprint easier to remember. The "words" are not necessarily real words, but they look more like words than a string of hex characters.

Bubble babble fingerprinting is used by the SSH2 suite (and consequently by `Net::SSH::Perl`, the Perl SSH implementation) to display easy-to-remember key fingerprints.

The 'BubbleBabble' string is appended as a comment when the `string` method is called.

```
=head1 COPYRIGHT
```

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, RFC4255

=cut

Found in path(s):

```
* /opt/cola/permits/1146928913_1616836868.34/0/libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/RR/SSHFP.pm
```

No license file was found, but licenses were detected in source scan.

=head1 EXAMPLES

The first example below shows a complete program.

Subsequent examples show only the creation of the update packet.

Although the examples are presented using the string form of RRs, the corresponding (name => value) form may also be used.

=head2 Add a new host

```
#!/usr/bin/perl

use Net::DNS;

# Create the update packet.
my $update = new Net::DNS::Update('example.com');

# Prerequisite is that no address records exist for the name.
$update->push( pre => nxrrset('foo.example.com. A') );
$update->push( pre => nxrrset('foo.example.com. AAAA') );

# Add two address records for the name.
$update->push( update => rr_add('foo.example.com. 86400 A 192.0.2.1') );
$update->push( update => rr_add('foo.example.com. 86400 AAAA 2001:DB8::1') );

# Send the update to the zone's primary master.
my $resolver = new Net::DNS::Resolver;
$resolver->nameservers('primary-master.example.com');

my $reply = $resolver->send($update);

# Did it work?
if ($reply) {
    if ( $reply->header->rcode eq 'NOERROR' ) {
```

```

    print "Update succeeded\n";
  } else {
    print 'Update failed: ', $reply->header->rcode, "\n";
  }
} else {
  print 'Update failed: ', $resolver->errorstring, "\n";
}

```

=head2 Add an MX record for a name that already exists

```

my $update = new Net::DNS::Update('example.com');
$update->push( prereq => yxdomain('example.com') );
$update->push( update => rr_add('example.com MX 10 mailhost.example.com') );

```

=head2 Add a TXT record for a name that does not exist

```

my $update = new Net::DNS::Update('example.com');
$update->push( prereq => nxdomain('info.example.com') );
$update->push( update => rr_add('info.example.com TXT "yabba dabba doo") );

```

=head2 Delete all A records for a name

```

my $update = new Net::DNS::Update('example.com');
$update->push( prereq => yxrrset('foo.example.com A') );
$update->push( update => rr_del('foo.example.com A') );

```

=head2 Delete all RRs for a name

```

my $update = new Net::DNS::Update('example.com');
$update->push( prereq => yxdomain('byebye.example.com') );
$update->push( update => rr_del('byebye.example.com') );

```

=head2 Perform a DNS update signed using a BIND private key file

```

my $update = new Net::DNS::Update('example.com');
$update->push( update => rr_add('foo.example.com AAAA 2001:DB8::1') );
$update->sign_tsig( "$dir/Khmac-sha512.example.com.+165+01018.private" );
my $reply = $resolver->send( $update );
$reply->verify( $update ) || die $reply->verifyerr;

```

=head2 Signing the DNS update using a BIND public key file

```

$update->sign_tsig( "$dir/Khmac-sha512.example.com.+165+01018.key" );

```

=head2 Signing the DNS update using a customised TSIG record

```

$update->sign_tsig( "$dir/Khmac-sha512.example.com.+165+01018.private",

```

```
fudge => 60
);
```

```
=head2 Another way to sign a DNS update
```

```
my $key_name = 'tsig-key';
my $key = 'awwLOtRfpGE+rRKF2+DEiw==';

my $tsig = new Net::DNS::RR("$key_name TSIG $key");
$tsig->fudge(60);

my $update = new Net::DNS::Update('example.com');
$update->push( update => rr_add('foo.example.com AAAA 2001:DB8::1') );
$update->push( additional => $tsig );
```

```
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```

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```
=head1 SEE ALSO
```

L<perl>, L<Net::DNS>, L<Net::DNS::Packet>, L<Net::DNS::Header>,
L<Net::DNS::RR>, L<Net::DNS::Resolver>, RFC 2136, RFC 2845

=cut

Found in path(s):

* /opt/cola/permits/1146928913_1616836868.34/0/libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/Update.pm

No license file was found, but licenses were detected in source scan.

=head1 SYNOPSIS

```
use Net::DNS;  
$rr = new Net::DNS::RR('name DNAME target');
```

=head1 DESCRIPTION

Class for DNS Non-Terminal Name Redirection (DNAME) resource records.

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

=head2 target

```
$target = $rr->target;  
$rr->target( $target );
```

Redirection target domain name which is to be substituted for its owner as a suffix of a domain name.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, RFC6672

=cut

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* /opt/cola/permits/1146928913_1616836868.34/0/libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/RR/DNAME.pm

No license file was found, but licenses were detected in source scan.

=head1 SYNOPSIS

```
use Net::DNS;
$rr = new Net::DNS::RR('name IN APL aplist');
```

=head1 DESCRIPTION

DNS Address Prefix List (APL) record

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

=head2 aplist

```
@aplist = $rr->aplist;

@aplist = $rr->aplist( '1:192.168.32.0/21', '!1:192.168.38.0/28' );

@aplist = $rr->aplist( '1:224.0.0.0/4', '2:FF00:0:0:0:0:0:0/8' );

@aplist = $rr->aplist( negate => 1,
  family => 1,
  address => '192.168.38.0',
  prefix => 28,
  );
```

Ordered, possibly empty, list of address prefix items.
Additional items, if present, are appended to the existing list
with neither prefix aggregation nor reordering.

=head2 Net::DNS::RR::APL::Item

Each element of the prefix list is a Net::DNS::RR::APL::Item
object which is inextricably bound to the APL record which
created it.

=head2 negate

```
$rr->negate(1);

if ( $rr->negate ) {
...
}
```

Boolean attribute indicating the prefix to be an address range exclusion.

=head2 family

```
$family = $rr->family;
$rr->family( $family );
```

Address family discriminant.

=head2 prefix

```
$prefix = $rr->prefix;
$rr->prefix( $prefix );
```

Number of bits comprising the address prefix.

=head2 address

```
$address = $object->address;
```

Address portion of the prefix list item.

=head2 string

```
$string = $object->string;
```

Returns the prefix list item in the form required in zone files.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, RFC3123

=cut

Found in path(s):

```
* /opt/cola/permits/1146928913_1616836868.34/0/libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/RR/APL.pm
```

No license file was found, but licenses were detected in source scan.

=head1 SYNOPSIS

```
use Net::DNS;  
$rr = new Net::DNS::RR('name TLSA usage selector matchingtype certificate');
```

=head1 DESCRIPTION

The Transport Layer Security Authentication (TLSA) DNS resource record is used to associate a TLS server certificate or public key with the domain name where the record is found, forming a "TLSA certificate association". The semantics of how the TLSA RR is interpreted are described in RFC6698.

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

=head2 usage

```
$usage = $rr->usage;  
$rr->usage( $usage );
```

8-bit integer value which specifies the provided association that will be used to match the certificate presented in the TLS handshake.

=head2 selector

```
$selector = $rr->selector;  
$rr->selector( $selector );
```

8-bit integer value which specifies which part of the TLS certificate presented by the server will be matched against the association data.

=head2 matchingtype

```
$matchingtype = $rr->matchingtype;  
$rr->matchingtype( $matchingtype );
```

8-bit integer value which specifies how the certificate association is presented.

```
=head2 certificate
```

```
=head2 cert
```

```
$cert = $rr->cert;  
$rr->cert( $cert );
```

Hexadecimal representation of the certificate data.

```
=head2 certbin
```

```
$certbin = $rr->certbin;  
$rr->certbin( $certbin );
```

Binary representation of the certificate data.

```
=head2 babble
```

```
print $rr->babble;
```

The babble() method returns the 'BubbleBabble' representation of the digest if the Digest::BubbleBabble package is available, otherwise an empty string is returned.

BubbleBabble represents a message digest as a string of plausible words, to make the digest easier to verify. The "words" are not necessarily real words, but they look more like words than a string of hex characters.

The 'BubbleBabble' string is appended as a comment when the string method is called.

```
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```

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, RFC6698

=cut

Found in path(s):

```
* /opt/cola/permits/1146928913_1616836868.34/0/libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/RR/TLSA.pm
```

No license file was found, but licenses were detected in source scan.

=head1 SYNOPSIS

```
use Net::DNS;
$rr = new Net::DNS::RR('name DS keytag algorithm digtype digest');
```

```
use Net::DNS::SEC;
$ds = create Net::DNS::RR::DS(
    $dnskeyrr,
    digtype => 'SHA256',
    ttl => 3600
);
```

=head1 DESCRIPTION

Class for DNS Delegation Signer (DS) resource record.

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

=head2 keytag

```
$keytag = $rr->keytag;  
$rr->keytag( $keytag );
```

The 16-bit numerical key tag of the key. (RFC2535 4.1.6)

=head2 algorithm

```
$algorithm = $rr->algorithm;  
$rr->algorithm( $algorithm );
```

Decimal representation of the 8-bit algorithm field.

algorithm() may also be invoked as a class method or simple function to perform mnemonic and numeric code translation.

=head2 digtype

```
$digtype = $rr->digtype;  
$rr->digtype( $digtype );
```

Decimal representation of the 8-bit digest type field.

digtype() may also be invoked as a class method or simple function to perform mnemonic and numeric code translation.

=head2 digest

```
$digest = $rr->digest;  
$rr->digest( $digest );
```

Hexadecimal representation of the digest over the label and key.

=head2 digestbin

```
$digestbin = $rr->digestbin;  
$rr->digestbin( $digestbin );
```

Binary representation of the digest over the label and key.

```
=head2 babble
```

```
print $rr->babble;
```

The `babble()` method returns the 'BubbleBabble' representation of the digest if the `Digest::BubbleBabble` package is available, otherwise an empty string is returned.

`BubbleBabble` represents a message digest as a string of plausible words, to make the digest easier to verify. The "words" are not necessarily real words, but they look more like words than a string of hex characters.

The 'BubbleBabble' string is appended as a comment when the string method is called.

```
=head2 create
```

```
use Net::DNS::SEC;
```

```
$dsrr = create Net::DNS::RR::DS($keyrr, digtype => 'SHA-256');
```

```
$keyrr->print;
```

```
$dsrr->print;
```

This constructor takes a key object as argument and will return the corresponding DS RR object.

The digest type defaults to SHA-1.

```
=head2 verify
```

```
$verify = $dsrr->verify($keyrr);
```

The boolean `verify` method will return true if the hash over the key RR provided as the argument conforms to the data in the DS itself i.e. the DS points to the DNSKEY from the argument.

```
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```

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, RFC4034, RFC3658

L<Algorithm Numbers|<http://www.iana.org/assignments/dns-sec-alg-numbers>>,
L<Digest Types|<http://www.iana.org/assignments/ds-rr-types>>

=cut

Found in path(s):

* /opt/cola/permits/1146928913_1616836868.34/0/libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/RR/DS.pm

No license file was found, but licenses were detected in source scan.

=head1 SYNOPSIS

```
use Net::DNS;  
$rr = new Net::DNS::RR('name IN HIP algorithm hit key servers');
```

=head1 DESCRIPTION

Class for DNS Host Identity Protocol (HIP) resource records.

=head1 METHODS

The available methods are those inherited from the base class augmented

by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

=head2 algorithm

```
$algorithm = $rr->algorithm;  
$rr->algorithm( $algorithm );
```

The PK algorithm field indicates the public key cryptographic algorithm and the implied public key field format.

The values are those defined for the IPSECKEY algorithm type [RFC4025].

=head2 hit

```
$hit = $rr->hit;  
$rr->hit( $hit );
```

The hexadecimal representation of the host identity tag.

=head2 hitbin

```
$hitbin = $rr->hitbin;  
$rr->hitbin( $hitbin );
```

The binary representation of the host identity tag.

=head2 key

```
$key = $rr->key;  
$rr->key( $key );
```

The hexadecimal representation of the public key.

=head2 keybin

```
$keybin = $rr->keybin;  
$rr->keybin( $keybin );
```

The binary representation of the public key.

=head2 servers

```
@servers = $rr->servers;
```

Optional list of domain names of rendezvous servers.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, RFC8005

=cut

Found in path(s):

```
* /opt/cola/permits/1146928913_1616836868.34/0/libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/RR/HIP.pm
```

No license file was found, but licenses were detected in source scan.

=head1 SYNOPSIS

```
use Net::DNS;
```

```
$rr = new Net::DNS::RR('name KEY flags protocol algorithm publickey');
```

=head1 DESCRIPTION

DNS KEY resource record

This is a clone of the DNSKEY record and inherits all properties of the Net::DNS::RR::DNSKEY class.

Please see the L<Net::DNS::RR::DNSKEY> documentation for details.

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, L<Net::DNS::RR::DNSKEY>, RFC3755, RFC2535

=cut

Found in path(s):

* /opt/cola/permits/1146928913_1616836868.34/0/libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/RR/KEY.pm

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=head1 SYNOPSIS

```
use Net::DNS;  
$rr = new Net::DNS::RR('name HINFO cpu os');
```

=head1 DESCRIPTION

Class for DNS Hardware Information (HINFO) resource records.

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

=head2 cpu

```
$cpu = $rr->cpu;  
$rr->cpu( $cpu );
```

Returns the CPU type for this RR.

=head2 os

```
$os = $rr->os;  
$rr->os( $os );
```

Returns the operating system type for this RR.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, RFC1035 Section 3.3.2

=cut

Found in path(s):

* /opt/cola/permits/1146928913_1616836868.34/0/libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/RR/HINFO.pm

No license file was found, but licenses were detected in source scan.

=head1 SYNOPSIS

```
use Net::DNS;  
$rr = new Net::DNS::RR('name SOA mname name 0 14400 3600 1814400 3600');
```

=head1 DESCRIPTION

Class for DNS Start of Authority (SOA) resource records.

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

=head2 mname

```
$mname = $rr->mname;  
$rr->mname( $mname );
```

The domain name of the name server that was the original or primary source of data for this zone.

=head2 rname

```
$rname = $rr->rname;  
$rr->rname( $rname );
```

The mailbox which identifies the person responsible for maintaining this zone.

=head2 serial

```
$serial = $rr->serial;  
$serial = $rr->serial(value);
```

Unsigned 32 bit version number of the original copy of the zone. Zone transfers preserve this value.

RFC1982 defines a strict (irreflexive) partial ordering for zone serial numbers. The serial number will be incremented unless the replacement value argument satisfies the ordering constraint.

=head2 refresh

```
$refresh = $rr->refresh;  
$rr->refresh( $refresh );
```

A 32 bit time interval before the zone should be refreshed.

=head2 retry

```
$retry = $rr->retry;  
$rr->retry( $retry );
```

A 32 bit time interval that should elapse before a failed refresh should be retried.

=head2 expire

```
$expire = $rr->expire;  
$rr->expire( $expire );
```

A 32 bit time value that specifies the upper limit on the time interval that can elapse before the zone is no longer authoritative.

=head2 minimum

```
$minimum = $rr->minimum;  
$rr->minimum( $minimum );
```

The unsigned 32 bit minimum TTL field that should be exported with any RR from this zone.

=head1 Zone Serial Number Management

The internal logic of the serial() method offers support for several widely used zone serial numbering policies.

=head2 Strictly Sequential

```
$successor = $soa->serial( SEQUENTIAL );
```

The existing serial number is incremented modulo 2^{32} because the value returned by the auxiliary SEQUENTIAL() function can never satisfy the serial number ordering constraint.

=head2 Date Encoded

```
$successor = $soa->serial( YYYYMMDDxx );
```

The 32 bit value returned by the auxiliary YYYYMMDDxx() function will be used if it satisfies the ordering constraint, otherwise the serial number will be incremented as above.

Serial number increments must be limited to 100 per day for the date information to remain useful.

=head2 Time Encoded

```
$successor = $soa->serial( UNIXTIME );
```

The 32 bit value returned by the auxiliary UNIXTIME() function will be used if it satisfies the ordering constraint, otherwise the existing

serial number will be incremented as above.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, RFC1035 Section 3.3.13, RFC1982

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=head1 SYNOPSIS

```
use Net::DNS;  
$rr = new Net::DNS::RR('name IN EUI64 address');
```

```
$rr = new Net::DNS::RR(  
name => 'example.com',  
type => 'EUI64',  
address => '00-00-5e-ef-10-00-00-2a'  
);
```

=head1 DESCRIPTION

DNS resource records for 64-bit Extended Unique Identifier (EUI64).

The EUI64 resource record is used to represent IEEE Extended Unique Identifiers used in various layer-2 networks, ethernet for example.

EUI64 addresses SHOULD NOT be published in the public DNS. RFC7043 describes potentially severe privacy implications resulting from indiscriminate publication of link-layer addresses in the DNS.

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

=head2 address

The address field is a 8-octet layer-2 address in network byte order.

The presentation format is hexadecimal separated by "-".

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, RFC7043

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* /opt/cola/permits/1146928913_1616836868.34/0/libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/RR/EUI64.pm

1.227 libhtml-tree-perl 5.07-2

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```

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```
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```

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The End

1.228 man-db 2.9.1-1

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1.229 tmux 3.0a-2

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1.230 libmailtools-perl 2.21-1

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=encoding utf8

=head1 NAME

Mail::Address - parse mail addresses

=head1 SYNOPSIS

```
use Mail::Address;
```

```
my @addrs = Mail::Address->parse($line);
```

```
foreach $addr (@addrs) {
    print $addr->format,"\n";
}
```

=head1 DESCRIPTION

C<Mail::Address> extracts and manipulates email addresses from a message header. It cannot be used to extract addresses from some random text. You can use this module to create RFC822 compliant fields.

Although C<Mail::Address> is a very popular subject for books, and is used in many applications, it does a very poor job on the more complex message fields. It does only handle simple address formats (which covers about 95% of what can be found). Problems are with

=over 4

=item *

no support for address groups, even not with the semi-colon as separator between addresses;

=item *

limited support for escapes in phrases and comments. There are cases where it can get wrong; and

=item *

you have to take care of most escaping when you create an address yourself: C<Mail::Address> does not do that for you.

=back

Often requests are made to the maintainers of this code improve this situation, but this is not a good idea, where it will break zillions of existing applications. If you wish for a fully RFC2822 compliant implementation you may take a look at L<Mail::Message::Field::Full>, part of MailBox.

B<. Example>

```
my $s = Mail::Message::Field::Full->new($from_header);
# ref $s isa Mail::Message::Field::Addresses;
```

```
my @g = $s->groups;      # all groups, at least one
# ref $g[0] isa Mail::Message::Field::AddrGroup;
my $ga = $g[0]->addresses; # group addresses
```

```
my @a = $s->addresses;    # all addresses
# ref $a[0] isa Mail::Message::Field::Address;
```

=head1 METHODS

=head2 Constructors

=over 4

=item Mail::Address-E<gt>B<new>(\$phrase, \$address, [\$comment])

Create a new C<Mail::Address> object which represents an address with the elements given. In a message these 3 elements would be seen like:

PHRASE <ADDRESS> (COMMENT)

ADDRESS (COMMENT)

example:

```
Mail::Address->new("Perl5 Porters", "perl5-porters@africa.nicoh.com");
```

=item \$obj-E<gt>B<parse>(\$line)

Parse the given line and return a list of extracted C<Mail::Address> objects. The line would normally be one taken from a To,Cc or Bcc line in a message

example:

```
my @addr = Mail::Address->parse($line);
```

=back

=head2 Accessors

=over 4

=item \$obj-E<gt>B<address>()

Return the address part of the object.

=item \$obj-E<gt>B<comment>()

Return the comment part of the object

=item \$obj-E<gt>B<format>(@addresses)

Return a string representing the address in a suitable form to be placed

on a C<To>, C<Cc>, or C<Bcc> line of a message. This method is called on the first address to be used; other specified addresses will be appended, separated by commas.

=item \$obj-E<gt>B<phrase>()

Return the phrase part of the object.

=back

=head2 Smart accessors

=over 4

=item \$obj-E<gt>B<host>()

Return the address excluding the user id and '@'

=item \$obj-E<gt>B<name>()

Using the information contained within the object attempt to identify what the person or groups name is.

B<Note:> This function tries to be smart with the "phrase" of the email address, which is probably a very bad idea. Consider to use L<phrase()|Mail::Address/"Accessors"> itself.

=item \$obj-E<gt>B<user>()

Return the address excluding the '@' and the mail domain

=back

=head1 SEE ALSO

This module is part of the MailTools distribution,
F<<http://perl.overmeer.net/mailtools/>>.

=head1 AUTHORS

The MailTools bundle was developed by Graham Barr. Later, Mark Overmeer took over maintenance without commitment to further development.

Mail::Cap by Gisle Aas E<lt>aas@oslonett.noE<gt>.

Mail::Field::AddrList by Peter Orbaek E<lt>poe@cit.dkE<gt>.

Mail::Mailer and Mail::Send by Tim Bunce E<lt>Tim.Bunce@ig.co.ukE<gt>.

For other contributors see ChangeLog.

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Found in path(s):

* /opt/cola/permits/1146929080_1616812141.62/0/libmailtools-perl-2-21-orig-1-tar-gz/MailTools-
2.21/lib/Mail/Address.pod

No license file was found, but licenses were detected in source scan.

=encoding utf8

=head1 NAME

Mail::Filter - filter mail through multiple subroutines

=head1 SYNOPSIS

```
use Mail::Filter;
```

```
my $filter = Mail::Filter->new( \&filter1, \&filter2 );
```

```
my $mail = Mail::Internet->new( [<>] );
```

```
my $mail = $filter->filter($mail);
```

```
my $folder = Mail::Folder->new( .... );
```

```
my $filter->filter($folder);
```

=head1 DESCRIPTION

C<Mail::Filter> provides an interface to filtering Email through multiple subroutines.

C<Mail::Filter> filters mail by calling each filter subroutine in turn. Each filter subroutine is called with two arguments, the first is the filter object and the second is the mail or folder object being filtered.

The result from each filter sub is passed to the next filter as the mail object. If a filter subroutine returns undef, then C<Mail::Filter> will abort and return immediately.

The function returns the result from the last subroutine to operate on the mail object.

=head1 METHODS

=head2 Constructors

=over 4

=item Mail::Filter-E<gt>B<new>(@filters)

Create a new C<Mail::Filter> object with the given filter subroutines. Each filter may be either a code reference or the name of a method to call on the <Mail::Filter> object.

=back

=head2 Accessors

=over 4

=item \$obj-E<gt>B<add>(@filters)

Add the given @filters to the end of the filter list.

=back

=head2 Processing

=over 4

=item \$obj-E<gt>B<filter>(\$mail|\$folder)

If the first argument is a L<Mail::Internet|Mail::Internet> object, then this object will be passed through the filter list. If the first argument is a Mail::Folder object, then each message in turn will be passed through the filter list.

=item \$obj-E<gt>B<folder>()

While the L<filter()|Mail::Filter/"Processing"> method is called with a Mail::Folder object, these filter subroutines can call this method to obtain the folder object that is being processed.

=item \$obj-E<gt>B<msgnum>()

If the L<filter()|Mail::Filter/"Processing"> method is called with a Mail::Folder object, then the filter subroutines may call this method to obtain the message number of the message that is being processed.

=back

=head1 SEE ALSO

This module is part of the MailTools distribution,
F<<http://perl.overmeer.net/mailtools/>>.

=head1 AUTHORS

The MailTools bundle was developed by Graham Barr. Later, Mark Overmeer took over maintenance without commitment to further development.

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See F<<http://www.perl.com/perl/misc/Artistic.html>>

Found in path(s):

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2.21/lib/Mail/Filter.pod

No license file was found, but licenses were detected in source scan.

=encoding utf8

=head1 NAME

Mail::Internet - manipulate email messages

=head1 SYNOPSIS

```
use Mail::Internet;
my $msg = Mail::Internet->new(*STDIN);
```

=head1 DESCRIPTION

This package implements reading, creating, manipulating, and writing email messages. Sometimes, the implementation tries to be too smart, but in the general case it works as expected.

If you start writing a B<new application>, you should use the L<Mail::Box> distribution, which has more features and handles messages much better

according to the RFCs. See [L<http://perl.overmeer.net/mailbox/>](http://perl.overmeer.net/mailbox/). You may also chose [L<MIME::Entity>](#), to get at least some multipart support in your application.

=head1 METHODS

=head2 Constructors

=over 4

=item \$obj-E<gt>B<dup>()

Duplicate the message as a whole. Both header and body will be deep-copied: a new [L<Mail::Internet|Mail::Internet>](#) object is returned.

=item \$obj-E<gt>B<extract>(\@lines)

Extract header and body from an ARRAY of message lines. Requires an object already created with [L<new\(\)|Mail::Internet/"Constructors">](#), which contents will get overwritten.

=item \$obj-E<gt>B<new>([\$arg], [%options])

=item Mail::Internet-E<gt>B<new>([\$arg], [%options])

\$arg is optional and may be either a file descriptor (reference to a GLOB) or a reference to an array. If given the new object will be initialized with headers and body either from the array of read from the file descriptor.

The [L<Mail::Header::new\(\)|Mail::Header/"Constructors">](#) %options C<Modify>, C<MailFrom> and C<FoldLength> may also be given.

-Option--Default

Body []

Header undef

=over 2

=item Body => ARRAY-of-LINES

The value of this option should be a reference to an array which contains the lines for the body of the message. Each line should be terminated with C<\n> (LF). If Body is given then C<Mail::Internet> will not attempt to read the body from C<\$arg> (even if it is specified).

=item Header => Mail::Header

The value of this option should be a L<Mail::Header|Mail::Header> object. If given then C<Mail::Internet> will not attempt to read a mail header from C<\$arg>, if it was specified.

=back

=item \$obj-E<gt>B<read>(\$fh)

Read a message from the \$fh into an already existing message object. Better use L<new()|Mail::Internet/"Constructors"> with the \$fh as first argument.

=back

=head2 Accessors

=over 4

=item \$obj-E<gt>B<body>([\$body])

Returns the body of the message. This is a reference to an array. Each entry in the array represents a single line in the message.

If I<\$body> is given, it can be a reference to an array or an array, then the body will be replaced. If a reference is passed, it is used directly and not copied, so any subsequent changes to the array will change the contents of the body.

=item \$obj-E<gt>B<head>()

Returns the C<Mail::Header> object which holds the headers for the current message

=back

=head2 Processing the message as a whole

=over 4

=item \$obj-E<gt>B<as_mbox_string>([\$already_escaped])

Returns the message as a string in mbox format. C<\$already_escaped>, if given and true, indicates that L<escape_from()|Mail::Internet/"High-level functionality"> has already been called on this object.

=item \$obj-E<gt>B<as_string>()

Returns the message as a single string.

=item \$Obj-E<gt>B<print>([\$fh])

Print the header, body or whole message to file descriptor I<\$fh>. I<\$fd> should be a reference to a GLOB. If I<\$fh> is not given the output will be sent to STDOUT.

example:

```
$mail->print( \*STDOUT ); # Print message to STDOUT
```

=item \$Obj-E<gt>B<print_body>([\$fh])

Print only the body to the \$fh (default STDOUT).

=item \$Obj-E<gt>B<print_header>([\$fh])

Print only the header to the \$fh (default STDOUT).

=back

=head2 Processing the header

Most of these methods are simply wrappers around methods provided by L<Mail::Header|Mail::Header>.

=over 4

=item \$Obj-E<gt>B<add>(PAIRS)

The PAIRS are field-name and field-content. For each PAIR, L<Mail::Header::add()|Mail::Header/"Processing"> is called. All fields are added after existing fields. The last addition is returned.

=item \$Obj-E<gt>B<combine>(\$tag, [\$with])

See L<Mail::Header::combine()|Mail::Header/"Processing">.

=item \$Obj-E<gt>B<delete>(\$tag, [\$tags])

Delete all fields with the name \$tag. L<Mail::Header::delete()|Mail::Header/"Processing"> is doing the work.

=item \$Obj-E<gt>B<fold>([\$length])

See L<Mail::Header::fold()|Mail::Header/"Processing">.

=item \$Obj-E<gt>B<fold_length>([\$tag], [\$length])

See L<Mail::Header::fold_length()|Mail::Header/"Accessors">.

```
=item $obj-E<gt>B<get>( $tag, [$tags] )
```

In LIST context, all fields with the name \$tag are returned. In SCALAR context, only the first field which matches the earliest \$tag is returned.

L<Mail::Header::get()|Mail::Header/"Processing"> is called to collect the data.

```
=item $obj-E<gt>B<header>(\@lines)
```

See L<Mail::Header::header()|Mail::Header/"Fake" constructors">.

```
=item $obj-E<gt>B<replace>(PAIRS)
```

The PAIRS are field-name and field-content. For each PAIR, L<Mail::Header::replace()|Mail::Header/"Processing"> is called with index 0. If a \$field is already in the header, it will be removed first. Do not specified the same field-name twice.

```
=back
```

```
=head2 Processing the body
```

```
=over 4
```

```
=item $obj-E<gt>B<remove_sig>( [$nlines] )
```

Attempts to remove a user's signature from the body of a message. It does this by looking for a line equal to C<'-- '> within the last C<\$nlines> of the message. If found then that line and all lines after it will be removed. If C<\$nlines> is not given a default value of 10 will be used. This would be of most use in auto-reply scripts.

```
=item $obj-E<gt>B<sign>(%options)
```

Add your signature to the body. L<remove_sig()|Mail::Internet/"Processing the body"> will strip existing signatures first.

```
-Option --Default
```

```
File undef
```

```
Signature []
```

```
=over 2
```

```
=item File => FILEHANDLE
```

Take from the FILEHANDLE all lines starting from the first C<< -- >>.

=item Signature => STRING|ARRAY-of-LINES

=back

=item \$obj-E<gt>B<tidy_body>()

Removes all leading and trailing lines from the body that only contain white spaces.

=back

=head2 High-level functionality

=over 4

=item \$obj-E<gt>B<escape_from>()

It can cause problems with some applications if a message contains a line starting with C<`From '>, in particular when attempting to split a folder. This method inserts a leading C<`>'> on any line that matches the regular expression C</^>*From/>

=item \$obj-E<gt>B<nntp_post>([%options])

Post an article via NNTP. Requires Net::NNTP to be installed.

-Option--Default

Debug <false>

Host <required>

Port 119

=over 2

=item Debug => BOOLEAN

Debug value to pass to Net::NNTP, see L<Net::NNTP>

=item Host => HOSTNAME|Net::NNTP object

Name of NNTP server to connect to, or a Net::NNTP object to use.

=item Port => INTEGER

Port number to connect to on remote host

=back

=item \$obj-E<gt>B<reply>(%options)

Create a new object with header initialised for a reply to the current object. And the body will be a copy of the current message indented.

The C<.mailhdr> file in your home directory (if exists) will be read first, to provide defaults.

-Option --Default

Exclude []

Indent '>'

Keep []

ReplyAll false

=over 2

=item Exclude => ARRAY-of-FIELDS

Remove the listed FIELDS from the produced message.

=item Indent => STRING

Use as indentation string. The string may contain C<%> to get a single C<%>, C<%f> to get the first from name, C<%F> is the first character of C<%f>, C<%l> is the last name, C<%L> its first character, C<%n> the whole from string, and C<%I> the first character of each of the names in the from string.

=item Keep => ARRAY-of-FIELDS

Copy the listed FIELDS from the original message.

=item ReplyAll => BOOLEAN

Automatically include all To and Cc addresses of the original mail, excluding those mentioned in the Bcc list.

=back

=item \$obj-E<gt>B<send>([\$type, [\$args...]])

Send a Mail::Internet message using L<Mail::Mailer|Mail::Mailer>. \$type and \$args are passed on to L<Mail::Mailer::new()|Mail::Mailer/"Constructors">.

=item \$obj-E<gt>B<smtpsend>([%options])

Send a Mail::Internet message using direct SMTP to the given ADDRESSES, each can be either a string or a reference to a list of email addresses. If none of C<To>, <Cc> or C<Bcc> are given then the addresses are extracted from the message being sent.

The return value will be a list of email addresses that the message was sent to. If the message was not sent the list will be empty.

Requires Net::SMTP and Net::Domain to be installed.

-Option --Default

Bcc undef

Cc undef

Debug <false>

Hello localhost.localdomain

Host \$ENV{SMTPHOSTS}

MailFrom Mail::Util::mailaddress()

Port 25

To undef

=over 2

=item Bcc => ADDRESSES

=item Cc => ADDRESSES

=item Debug => BOOLEAN

Debug value to pass to Net::SMTP, see <Net::SMTP>

=item Hello => STRING

Send a HELO (or EHLO) command to the server with the given name.

=item Host => HOSTNAME

Name of the SMTP server to connect to, or a Net::SMTP object to use

If C<Host> is not given then the SMTP host is found by attempting connections first to hosts specified in C<\$ENV{SMTPHOSTS}>, a colon separated list, then C<mailhost> and C<localhost>.

=item MailFrom => ADDRESS

The e-mail address which is used as sender. By default, L<Mail::Util::mailaddress()|Mail::Util/"FUNCTIONS"> provides the address of the sender.

=item Port => INTEGER

Port number to connect to on remote host

=item To => ADDRESSES

=back

=item \$obj-E<gt>B<unescape_from>()

Remove the escaping added by L<escape_from()|Mail::Internet/"High-level functionality">.

=back

=head1 SEE ALSO

This module is part of the MailTools distribution,
F<<http://perl.overmeer.net/mailtools/>>.

=head1 AUTHORS

The MailTools bundle was developed by Graham Barr. Later, Mark Overmeer took over maintenance without commitment to further development.

Mail::Cap by Gisle Aas E<lt>aas@oslonett.noE<gt>.

Mail::Field::AddrList by Peter Orbaek E<lt>poe@cit.dkE<gt>.

Mail::Mailer and Mail::Send by Tim Bunce E<lt>Tim.Bunce@ig.co.ukE<gt>.

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Found in path(s):

* /opt/cola/permits/1146929080_1616812141.62/0/libmailtools-perl-2-21-orig-1-tar-gz/MailTools-2.21/lib/Mail/Internet.pod

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abstract: 'Various ancient e-mail related modules'

author:

- 'Mark Overmeer <markov@cpan.org>'

build_requires:

ExtUtils::MakeMaker: '0'

configure_requires:

ExtUtils::MakeMaker: '0'

dynamic_config: 1

generated_by: 'ExtUtils::MakeMaker version 7.3, CPAN::Meta::Converter version 2.150010'


```
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: '1.4'
name: MailTools
no_index:
  directory:
    - t
    - inc
requires:
  Date::Format: '0'
  Date::Parse: '0'
  IO::Handle: '0'
  Net::Domain: '1.05'
  Net::SMTP: '1.03'
  Test::More: '0'
resources:
  homepage: http://perl.overmeer.net/CPAN/
  license: http://dev.perl.org/licenses/
  repository: https://github.com/markov2/perl5-MailTools.git
  version: '2.21'
  x_serialization_backend: 'CPAN::Meta::YAML version 0.011'
```

Found in path(s):

```
* /opt/cola/permits/1146929080_1616812141.62/0/libmailtools-perl-2-21-orig-1-tar-gz/MailTools-2.21/META.yml
```

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=encoding utf8

=head1 NAME

Mail::Cap - understand mailcap files

=head1 SYNOPSIS

```
my $mc = Mail::Cap->new;
```

```
my $desc = $mc->description('image/gif');
```

```
print "GIF desc: $desc\n";
```

```
my $cmd = $mc->viewCmd('text/plain; charset=iso-8859-1', 'file.txt');
```

=head1 DESCRIPTION

Parse mailcap files as specified in "RFC 1524 --A User Agent Configuration Mechanism For Multimedia Mail Format Information". In the description below C<\$type> refers to the MIME type as specified in the C<Content-Type> header of mail or HTTP messages. Examples of

types are:

```
image/gif
text/html
text/plain; charset=iso-8859-1
```

You could also take a look at the File::MimeInfo distribution, which are accessing tables which are used by many applications on a system, and therefore have succeeded the mail-cap specifications on modern (UNIX) systems.

```
=head1 METHODS
```

```
=head2 Constructors
```

```
=over 4
```

```
=item Mail::Cap-E<gt>B<new>(%options)
```

Create and initialize a new Mail::Cap object. If you give it an argument it will try to parse the specified file. Without any arguments it will search for the mailcap file using the standard mailcap path, or the MAILCAPS environment variable if it is defined.

```
-Option --Default
filename undef
take 'FIRST'
```

```
=over 2
```

```
=item filename => FILENAME
```

Add the specified file to the list to standard locations. This file is tried first.

```
=item take => 'ALL'|'FIRST'
```

Include all mailcap files you can find. By default, only the first file is parsed, however the RFC tells us to include ALL. To maintain backwards compatibility, the default only takes the FIRST.

```
=back
```

example:

```
$mcap = new Mail::Cap;
$mcap = new Mail::Cap "/mydir/mailcap";
$mcap = new Mail::Cap filename => "/mydir/mailcap";
```

```
$mcap = new Mail::Cap take => 'ALL';  
$mcap = Mail::Cap->new(take => 'ALL');
```

=back

=head2 Run commands

These methods invoke a suitable program presenting or manipulating the media object in the specified file. They all return C<1> if a command was found, and C<0> otherwise. You might test C<\$?> for the outcome of the command.

=over 4

=item \$Obj-E<gt>B<compose>(\$type, \$file)

=item \$Obj-E<gt>B<edit>(\$type, \$file)

=item \$Obj-E<gt>B<print>(\$type, \$file)

=item \$Obj-E<gt>B<view>(\$type, \$file)

=back

=head2 Command creator

These methods return a string that is suitable for feeding to system() in order to invoke a suitable program presenting or manipulating the media object in the specified file. It will return C<undef> if no suitable specification exists.

=over 4

=item \$Obj-E<gt>B<composeCmd>(\$type, \$file)

=item \$Obj-E<gt>B<editCmd>(\$type, \$file)

=item \$Obj-E<gt>B<printCmd>(\$type, \$file)

=item \$Obj-E<gt>B<viewCmd>(\$type, \$file)

=back

=head2 Look-up definitions

Methods return the corresponding mailcap field for the type.

=over 4

=item \$obj-E<gt>B<description>(\$type)

=item \$obj-E<gt>B<field>(\$type, \$field)

Returns the specified field for the type. Returns undef if no specification exists.

=item \$obj-E<gt>B<nametemplate>(\$type)

=item \$obj-E<gt>B<textualnewlines>(\$type)

=item \$obj-E<gt>B<x11_bitmap>(\$type)

=back

=head1 SEE ALSO

This module is part of the MailTools distribution,
F<<http://perl.overmeer.net/mailtools/>>.

=head1 AUTHORS

The MailTools bundle was developed by Graham Barr. Later, Mark Overmeer took over maintenance without commitment to further development.

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Mail::Mailer and Mail::Send by Tim Bunce E<lt>Tim.Bunce@ig.co.ukE<gt>.

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Found in path(s):

* /opt/cola/permits/1146929080_1616812141.62/0/libmailtools-perl-2-21-orig-1-tar-gz/MailTools-
2.21/lib/Mail/Cap.pod

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Found in path(s):

* /opt/cola/permits/1146929080_1616812141.62/0/libmailtools-perl-2-21-orig-1-tar-gz/MailTools-2.21/lib/Mail/Filter.pm
* /opt/cola/permits/1146929080_1616812141.62/0/libmailtools-perl-2-21-orig-1-tar-gz/MailTools-2.21/lib/Mail/Mailer/rfc822.pm
* /opt/cola/permits/1146929080_1616812141.62/0/libmailtools-perl-2-21-orig-1-tar-gz/MailTools-2.21/lib/Mail/Util.pm
* /opt/cola/permits/1146929080_1616812141.62/0/libmailtools-perl-2-21-orig-1-tar-gz/MailTools-2.21/lib/Mail/Send.pm
* /opt/cola/permits/1146929080_1616812141.62/0/libmailtools-perl-2-21-orig-1-tar-gz/MailTools-2.21/lib/Mail/Field/Date.pm
* /opt/cola/permits/1146929080_1616812141.62/0/libmailtools-perl-2-21-orig-1-tar-gz/MailTools-2.21/lib/Mail/Field/AddrList.pm
* /opt/cola/permits/1146929080_1616812141.62/0/libmailtools-perl-2-21-orig-1-tar-gz/MailTools-2.21/lib/MailTools.pm
* /opt/cola/permits/1146929080_1616812141.62/0/libmailtools-perl-2-21-orig-1-tar-gz/MailTools-2.21/lib/Mail/Field.pm
* /opt/cola/permits/1146929080_1616812141.62/0/libmailtools-perl-2-21-orig-1-tar-gz/MailTools-2.21/lib/Mail/Mailer.pm
* /opt/cola/permits/1146929080_1616812141.62/0/libmailtools-perl-2-21-orig-1-tar-gz/MailTools-2.21/lib/Mail/Mailer/qmail.pm
* /opt/cola/permits/1146929080_1616812141.62/0/libmailtools-perl-2-21-orig-1-tar-gz/MailTools-2.21/lib/Mail/Address.pm
* /opt/cola/permits/1146929080_1616812141.62/0/libmailtools-perl-2-21-orig-1-tar-gz/MailTools-2.21/lib/Mail/Field/Generic.pm
* /opt/cola/permits/1146929080_1616812141.62/0/libmailtools-perl-2-21-orig-1-tar-gz/MailTools-2.21/lib/Mail/Cap.pm
* /opt/cola/permits/1146929080_1616812141.62/0/libmailtools-perl-2-21-orig-1-tar-gz/MailTools-2.21/lib/Mail/Mailer/testfile.pm
* /opt/cola/permits/1146929080_1616812141.62/0/libmailtools-perl-2-21-orig-1-tar-gz/MailTools-2.21/lib/Mail/Header.pm
* /opt/cola/permits/1146929080_1616812141.62/0/libmailtools-perl-2-21-orig-1-tar-gz/MailTools-2.21/lib/Mail/Mailer/smtp.pm
* /opt/cola/permits/1146929080_1616812141.62/0/libmailtools-perl-2-21-orig-1-tar-gz/MailTools-2.21/lib/Mail/Internet.pm
* /opt/cola/permits/1146929080_1616812141.62/0/libmailtools-perl-2-21-orig-1-tar-gz/MailTools-2.21/lib/Mail/Mailer/smtps.pm
* /opt/cola/permits/1146929080_1616812141.62/0/libmailtools-perl-2-21-orig-1-tar-gz/MailTools-2.21/lib/Mail/Mailer/sendmail.pm

No license file was found, but licenses were detected in source scan.

=encoding utf8

=head1 NAME

Mail::Field::Date - a date header field

=head1 INHERITANCE

Mail::Field::Date
is a Mail::Field

=head1 SYNOPSIS

```
use HTTP::Date 'time2iso';  
my $field = Mail::Field->new(Date => time2iso());
```

=head1 DESCRIPTION

Represents one "Date" header field.

Extends L<"DESCRIPTION" in Mail::Field|Mail::Field/"DESCRIPTION">.

=head1 METHODS

Extends L<"METHODS" in Mail::Field|Mail::Field/"METHODS">.

=head2 Constructors

Extends L<"Constructors" in Mail::Field|Mail::Field/"Constructors">.

=over 4

=item Mail::Field::Date-E<gt>B<combine>(\$fields)

Inherited, see L<Mail::Field/"Constructors">

=item Mail::Field::Date-E<gt>B<extract>(\$tag, \$head [, \$index])

Inherited, see L<Mail::Field/"Constructors">

=item Mail::Field::Date-E<gt>B<new>(\$tag [, STRING | %options])

Inherited, see L<Mail::Field/"Constructors">

=back

=head2 "Fake" constructors

Extends L<"Fake" constructors" in Mail::Field|Mail::Field/"Fake" constructors">.

=over 4

=item \$obj-E<gt>B<create>(%options)

Inherited, see L<Mail::Field/"Fake" constructors">

=item \$Obj-E<gt>B<parse>()

Inherited, see L<Mail::Field/"Fake" constructors">

=back

=head2 Accessors

Extends L<"Accessors" in Mail::Field|Mail::Field/"Accessors">.

=over 4

=item \$Obj-E<gt>B<set>(%options)

-Option --Default

Time undef

TimeStr undef

=over 2

=item Time => SECONDS

=item TimeStr => STRING

A string acceptable to Date::Parse.

=back

=item \$Obj-E<gt>B<stringify>()

Inherited, see L<Mail::Field/"Accessors">

=item \$Obj-E<gt>B<tag>()

=item Mail::Field::Date-E<gt>B<tag>()

Inherited, see L<Mail::Field/"Accessors">

=back

=head2 Smart accessors

Extends L<"Smart accessors" in Mail::Field|Mail::Field/"Smart accessors">.

=over 4

=item \$Obj-E<gt>B<text>([STRING])

Inherited, see L<Mail::Field/"Smart accessors">

=item \$obj-E<gt>B<time>([\$time])

Query (or change) the \$time (as stored in the field) in seconds.

=back

=head1 DETAILS

Extends L<"DETAILS" in Mail::Field|Mail::Field/"DETAILS">.

=head1 DIAGNOSTICS

=over 4

=item Error: Undefined subroutine <method> called

Mail::Field objects use autoloading to compile new functionality. Apparently, the method called is not implemented for the specific class of the field object.

=back

=head1 SEE ALSO

This module is part of the MailTools distribution,
F<<http://perl.overmeer.net/mailtools/>>.

=head1 AUTHORS

The MailTools bundle was developed by Graham Barr. Later, Mark Overmeer took over maintenance without commitment to further development.

Mail::Cap by Gisle Aas E<lt>aas@oslonett.noE<gt>.

Mail::Field::AddrList by Peter Orbaek E<lt>poe@cit.dkE<gt>.

Mail::Mailer and Mail::Send by Tim Bunce E<lt>Tim.Bunce@ig.co.ukE<gt>.

For other contributors see ChangeLog.

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See F<<http://www.perl.com/perl/misc/Artistic.html>>

Found in path(s):

```
* /opt/cola/permits/1146929080_1616812141.62/0/libmailtools-perl-2-21-orig-1-tar-gz/MailTools-2.21/lib/Mail/Field/Date.pod
```

No license file was found, but licenses were detected in source scan.

=encoding utf8

=head1 NAME

Mail::Field::AddrList - object representation of e-mail address lists

=head1 INHERITANCE

Mail::Field::AddrList

is a Mail::Field

=head1 SYNOPSIS

```
use Mail::Field::AddrList;
```

```
$to = Mail::Field->new('To');
```

```
$from = Mail::Field->new('From', 'poe@daimi.aau.dk (Peter Orbaek)');
```

```
$from->create('foo@bar.com' => 'Mr. Foo', poe => 'Peter');
```

```
$from->parse('foo@bar.com (Mr Foo), Peter Orbaek <poe>');
```

```
# make a RFC822 header string
```

```
print $from->stringify(),"\n";
```

```
# extract e-mail addresses and names
```

```
@addresses = $from->addresses(); # strings
```

```
@names = $from->names(); # strings
```

```
@addr = $from->addr_list(); # Mail::Address objects (v2.00)
```

```
# adjoin a new address to the list
```

```
$from->set_address('foo@bar.com', 'Mr. Foo');
```

=head1 DESCRIPTION

Defines parsing and formatting of address field, for the following fields: C<To>, C<From>, C<Cc>, C<Reply-To>, and C<Sender>.

All the normally used features of the address field specification of RFC2822 are implemented, but some complex (and therefore hardly ever used) constructs will not be understood. Use Mail::Message::Field::Full in MailBox if you need full RFC compliance.

Extends L<"DESCRIPTION" in Mail::Field|Mail::Field/"DESCRIPTION">.

=head1 METHODS

Extends L<"METHODS" in Mail::Field|Mail::Field/"METHODS">.

=head2 Constructors

Extends L<"Constructors" in Mail::Field|Mail::Field/"Constructors">.

=over 4

=item Mail::Field::AddrList-E<gt>B<combine>(\$fields)

Inherited, see L<Mail::Field/"Constructors">

=item Mail::Field::AddrList-E<gt>B<extract>(\$tag, \$head [, \$index])

Inherited, see L<Mail::Field/"Constructors">

=item Mail::Field::AddrList-E<gt>B<new>(\$tag [, STRING | %options])

Inherited, see L<Mail::Field/"Constructors">

=back

=head2 "Fake" constructors

Extends L<"Fake" constructors" in Mail::Field|Mail::Field/"Fake" constructors">.

=over 4

=item \$obj-E<gt>B<create>(%options)

Inherited, see L<Mail::Field/"Fake" constructors">

=item \$obj-E<gt>B<parse>()

Inherited, see L<Mail::Field/"Fake" constructors">

=back

=head2 Accessors

Extends L<"Accessors" in Mail::Field|Mail::Field/"Accessors">.

=over 4

=item \$obj-E<gt>B<set>(%options)

Inherited, see L<Mail::Field/"Accessors">

=item \$obj-E<gt>B<stringify>()

Inherited, see L<Mail::Field/"Accessors">

=item \$obj-E<gt>B<tag>()

=item Mail::Field::AddrList-E<gt>B<tag>()

Inherited, see L<Mail::Field/"Accessors">

=back

=head2 Smart accessors

Extends L<"Smart accessors" in Mail::Field|Mail::Field/"Smart accessors">.

=over 4

=item \$obj-E<gt>B<addr_list>()

Returns the collected L<Mail::Address|Mail::Address> objects.

=item \$obj-E<gt>B<addresses>()

Returns a list of email addresses, found in the field content.

=item \$obj-E<gt>B<names>()

Returns a list of nicely formatted names, for each of the addresses found in the content.

=item \$obj-E<gt>B<set_address>(\$email, \$name)

Add/replace an \$email address to the field.

=item \$obj-E<gt>B<text>([STRING])

Inherited, see L<Mail::Field/"Smart accessors">

=back

=head1 DETAILS

Extends L<"DETAILS" in Mail::Field|Mail::Field/"DETAILS">.

=head1 DIAGNOSTICS

=over 4

=item Error: Undefined subroutine <method> called

Mail::Field objects use autoloading to compile new functionality. Apparently, the method called is not implemented for the specific class of the field object.

=back

=head1 SEE ALSO

This module is part of the MailTools distribution,
F<<http://perl.overmeer.net/mailtools/>>.

=head1 AUTHORS

The MailTools bundle was developed by Graham Barr. Later, Mark Overmeer took over maintenance without commitment to further development.

Mail::Cap by Gisle Aas E<lt>aas@oslonett.noE<gt>.
Mail::Field::AddrList by Peter Orbaek E<lt>poe@cit.dkE<gt>.
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Found in path(s):

* /opt/cola/permits/1146929080_1616812141.62/0/libmailtools-perl-2-21-orig-1-tar-gz/MailTools-
2.21/lib/Mail/Field/AddrList.pod

No license file was found, but licenses were detected in source scan.

#!/usr/bin/perl -w

Note by Mark Overmeer:

This script does work, but Mail::Send may provide a nicer interface

NAME

mail-mailer.pl - Smtplib client written in Perl

```

#
# SYNOPSIS
# mail-mailer.pl -s "Test" --smtp=my-smtp-server.com admin@net1.net
#
# INTRODUCTION
# This script can be an alternative to the 'mail' Unix command when
# sending e-mails.
# It reads the mail body from the standard input.
# If your system is Windows, use the '--smtp' option to send your
# e-mails.
# This script works in Linux, Unix and Windows environments.
#
# OPTIONS
# -f From
# -s Subject
# -c Cc-address
# -b bcc-address
# --sendmail Use sendmail to send the e-mail
# --qmail Use qmail-inject to send the e-mail
# --smtp=HOSTNAME Use HOSTNAME as the SMTP server.
# --help Prints the help info and exits
#
# EXAMPLES
# cat mailbody.txt | mail-mailer.pl -f me@mydom.com -s "Hy dude" --sendmail friend@dom.com
#
# AUTHOR
# Bruno Negrao G Zica <bnegrao@engepel.com.br>
#
# COPYRIGHT
# Copyright (c) 2004 Bruno Negrao G Zica. All rights reserved.
# This program is free software; you can redistribute it and/or modify
# it under the same terms as Perl itself.
#
# LAST MODIFIED
# 01/12/2004
#####
use Mail::Mailer;
use Getopt::Long;
use strict;

# hash that'll receive the arguments and options
my %opt;
GetOptions ( \%opt, 'help', 'f=s', 's=s', 'c=s', 'b=s', 'sendmail',
'qmail', 'smtp=s' );

if ($opt{help}) { help(); exit 0; }

$opt{to} = $ARGV[$#ARGV]; # the "To" address is the last argument

```

```
die "Error: You didn't specify a destination e-mail address.\n"
```

```
unless ( $opt{to} || $opt{c} || $opt{b} );
```

```
# Defining the method to send the message
```

```
my $mailer; # Mail::Mailer object
```

```
if ($opt{sendmail}) {
```

```
    $mailer = new Mail::Mailer 'sendmail';
```

```
} elsif ($opt{qmail}) {
```

```
    $mailer = new Mail::Mailer 'qmail';
```

```
} elsif ($opt{smtp}) {
```

```
    $mailer = new Mail::Mailer 'smtp', Server => $opt{smtp};
```

```
} else {
```

```
    die "Error: you didn't specify the delivery method. ".
```

```
    "Possible methods are:\n'--qmail', '--sendmail', and ".
```

```
    "--smtp=HOSTNAME\n";
```

```
}
```

```
# Setting the headers
```

```
my %headers; # hash with the e-mail headers
```

```
$headers{To} = $opt{to};
```

```
$headers{From} = $opt{f} if defined $opt{f};
```

```
$headers{Cc} = $opt{c} if defined $opt{c};
```

```
$headers{Bcc} = $opt{b} if defined $opt{b};
```

```
$headers{Subject} = $opt{s} if defined $opt{s};
```

```
$mailer->open(\%headers);
```

```
# Reading and feeding the e-mail body
```

```
while (<STDIN>) {
```

```
    last if ( $_ =~ /^\.$/ );
```

```
    print $mailer $_;
```

```
}
```

```
# Finishing
```

```
$mailer->close();
```

```
# Subroutines
```

```
sub help {
```

```
    print '
```

```
Example 1: Entering the e-mail body by hand:
```

```
mail-mailer.pl -s "Hy buddy" --qmail friend@domain.com
```

```
[ ENTER YOUR MESSAGE BODY ]
```

```
[ A SINGLE . (dot sign) ALONE IN ONE LINE TO SAY ]
```

```
[ YOU FINISHED YOUR E-MAIL ]
```

```
.
```

```
Example 2: Using the output of another program as the body:
```

```
dir c:\ | perl mail-mailer.pl -f me@mydom.com -s "My c:\ " admin@mydom.com --smtp=server1.mydom.com
```

```
OPTIONS
```

```
-f addr From address.
-s TEXT Subject.
-c addr Cc-address.
-b addr bcc-address.
--sendmail Use sendmail to send the e-mail.
--qmail Use qmail-inject to send the e-mail.
--smtp HOSTNAME Use HOSTNAME as the SMTP server.
--help Prints this help text.
';
}
```

Found in path(s):

```
* /opt/cola/permits/1146929080_1616812141.62/0/libmailtools-perl-2-21-orig-1-tar-gz/MailTools-2.21/examples/mail-mailer.pl
```

No license file was found, but licenses were detected in source scan.

```
=encoding utf8
```

```
=head1 NAME
```

Mail::Send - Simple electronic mail interface

```
=head1 SYNOPSIS
```

```
require Mail::Send;
```

```
$msg = Mail::Send->new;
```

```
$msg = Mail::Send->new(Subject => 'example', To => 'timbo');
```

```
$msg->to('user@host');
```

```
$msg->to('user@host', 'user2@example.com');
```

```
$msg->subject('example subject');
```

```
$msg->cc('user@host');
```

```
$msg->bcc('someone@else');
```

```
$msg->set($header, @values);
```

```
$msg->add($header, @values);
```

```
$msg->delete($header);
```

```
# Launch mailer and set headers. The filehandle returned
```

```
# by open() is an instance of the Mail::Mailer class.
```

```
# Arguments to the open() method are passed to the Mail::Mailer
```

```
# constructor.
```

```
$fh = $msg->open; # some default mailer
```

```
$fh = $msg->open('sendmail'); # explicit
```

```
print $fh "Body of message";
```

```
$fh->close # complete the message and send it
```

or die "couldn't send whole message: \$!\n";

=head1 DESCRIPTION

L<Mail::Send|Mail::Send> creates e-mail messages without using the L<Mail::Header|Mail::Header> knowledge, which means that all escaping and folding must be done by you! Also: do not forget to escape leading dots. Simplicity has its price.

When you have time, take a look at Mail::Transport which is part of the MailBox suite.

=head1 METHODS

=head2 Constructors

=over 4

=item Mail::Send-E<gt>B<new>(PAIRS)

A list of header fields (provided as key-value PAIRS) can be used to initialize the object, limited to the few provided as method: C<to>, C<subject>, C<cc>, and C<bcc>. For other header fields, use L<add()|Mail::Send/"Header fields">.

=back

=head2 Header fields

=over 4

=item \$obj-E<gt>B<add>(\$fieldname, @values)

Add values to the list of defined values for the \$fieldname.

=item \$obj-E<gt>B<bcc>(@values)

=item \$obj-E<gt>B<cc>(@values)

=item \$obj-E<gt>B<delete>(\$fieldname)

=item \$obj-E<gt>B<set>(\$fieldname, @values)

The @values will replace the old values for the \$fieldname. Returned is the LIST of values after modification.

=item \$obj-E<gt>B<subject>(@values)

=item \$obj-E<gt>B<to>(@values)

=back

=head2 Sending

=over 4

=item \$obj-E<gt>B<open>(%options)

The %options are used to initiate a mailer object via L<Mail::Mailer::new()|Mail::Mailer/"Constructors">. Then L<Mail::Mailer::open()|Mail::Mailer/"Constructors"> is called with the knowledge collected in this C<Mail::Send> object.

Be warned: this module implements raw smtp, which means that you have to escape lines which start with a dot, by adding one in front.

=back

=head1 SEE ALSO

This module is part of the MailTools distribution, F<<http://perl.overmeer.net/mailtools/>>.

=head1 AUTHORS

The MailTools bundle was developed by Graham Barr. Later, Mark Overmeer took over maintenance without commitment to further development.

Mail::Cap by Gisle Aas E<lt>aas@oslonett.noE<gt>.
Mail::Field::AddrList by Peter Orbaek E<lt>poe@cit.dkE<gt>.
Mail::Mailer and Mail::Send by Tim Bunce E<lt>Tim.Bunce@ig.co.ukE<gt>.
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Found in path(s):

* /opt/cola/permits/1146929080_1616812141.62/0/libmailtools-perl-2-21-orig-1-tar-gz/MailTools-2.21/lib/Mail/Send.pod

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=encoding utf8

=head1 NAME

MailTools - bundle of ancient email modules

=head1 SYNOPSIS

This is a place-holder for the distribution

=head1 DESCRIPTION

MailTools is a bundle: an ancient form of combining packages into one distribution. Gladly, it can be distributed as if it is a normal distribution as well.

B<Be warned:> The code you find here is very old. It works for simple emails, but when you start with new code then please use more sophisticated libraries. The main reason that you still find this code on CPAN, is because many books use it as example.

=head2 Component

In this distribution, you find

=over 4

=item Mail::Address

Parse email address from a header line.

=item Mail::Cap

Interpret mailcap files: mappings of file-types to applications as used by many command-line email programs.

=item Mail::Field

Simplifies access to (some) email header fields. Used by L<Mail::Header|Mail::Header>.

=item Mail::Filter

Process L<Mail::Internet|Mail::Internet> messages.

=item Mail::Header

Collection of L<Mail::Field|Mail::Field> objects, representing the header of a L<Mail::Internet|Mail::Internet> object.

=item Mail::Internet

Represents a single email message, with header and body.

=item Mail::Mailer

Send L<Mail::Internet|Mail::Internet> emails via direct smtp or local MTA's.

=item Mail::Send

Build a L<Mail::Internet|Mail::Internet> object, and then send it out using L<Mail::Mailer|Mail::Mailer>.

=item Mail::Util

"Smart functions" you should not depend on.

=back

=head1 SEE ALSO

This module is part of the MailTools distribution,
F<<http://perl.overmeer.net/mailtools/>>.

=head1 AUTHORS

The MailTools bundle was developed by Graham Barr. Later, Mark Overmeer took over maintenance without commitment to further development.

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Mail::Field::AddrList by Peter Orbaek E<[lt>poe@cit.dkE<gt](mailto:poe@cit.dk)>.

Mail::Mailer and Mail::Send by Tim Bunce E<[lt>Tim.Bunce@ig.co.ukE<gt](mailto:Tim.Bunce@ig.co.uk)>.

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Found in path(s):

* /opt/cola/permits/1146929080_1616812141.62/0/libmailtools-perl-2-21-orig-1-tar-gz/MailTools-
2.21/lib/MailTools.pod

No license file was found, but licenses were detected in source scan.

=encoding utf8

=head1 NAME

Mail::Field::Generic - implementation for inspecific fields

=head1 INHERITANCE

Mail::Field::Generic

is a Mail::Field

=head1 SYNOPSIS

```
use Mail::Field;
my $field = Mail::Field->new('Subject', 'some subject text');
my $field = Mail::Field->new(subject => 'some subject text');
```

=head1 DESCRIPTION

A generic implementation for header fields without own implementation. This is fine for fields like C<Subject>, C<X-Mailer>, etc., where the field holds only a string of no particular importance/format.

Extends L<"DESCRIPTION" in Mail::Field|Mail::Field/"DESCRIPTION">.

=head1 METHODS

Extends L<"METHODS" in Mail::Field|Mail::Field/"METHODS">.

=head2 Constructors

Extends L<"Constructors" in Mail::Field|Mail::Field/"Constructors">.

=over 4

=item Mail::Field::Generic-E<gt>B<combine>(\$fields)

Inherited, see L<Mail::Field/"Constructors">

=item Mail::Field::Generic-E<gt>B<extract>(\$tag, \$head [, \$index])

Inherited, see L<Mail::Field/"Constructors">

=item Mail::Field::Generic-E<gt>B<new>(\$tag [, STRING | %options])

Inherited, see L<Mail::Field/"Constructors">

=back

=head2 "Fake" constructors

Extends L<"Fake" constructors" in Mail::Field|Mail::Field/"Fake" constructors">.

=over 4

=item \$obj-E<gt>B<create>(%options)

-Option--Default

Text "

=over 2

=item Text => STRING

=back

=item \$obj-E<gt>B<parse>([STRING])

Set the new text, which is empty when no STRING is provided.

=back

=head2 Accessors

Extends L<"Accessors" in Mail::Field|Mail::Field/"Accessors">.

=over 4

=item \$obj-E<gt>B<set>(%options)

Inherited, see L<Mail::Field/"Accessors">

=item \$obj-E<gt>B<stringify>()

Inherited, see L<Mail::Field/"Accessors">

=item \$obj-E<gt>B<tag>()

=item Mail::Field::Generic-E<gt>B<tag>()

Inherited, see L<Mail::Field/"Accessors">

=back

=head2 Smart accessors

Extends L<"Smart accessors" in Mail::Field|Mail::Field/"Smart accessors">.

=over 4

=item \$obj-E<gt>B<text>([STRING])

Inherited, see L<Mail::Field/"Smart accessors">

=back

=head1 DETAILS

Extends L<"DETAILS" in Mail::Field|Mail::Field/"DETAILS">.

=head1 DIAGNOSTICS

=over 4

=item Error: Undefined subroutine <method> called

Mail::Field objects use autoloading to compile new functionality. Apparently, the method called is not implemented for the specific class of the field object.

=back

=head1 SEE ALSO

This module is part of the MailTools distribution,
F<<http://perl.overmeer.net/mailtools/>>.

=head1 AUTHORS

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Mail::Field::AddrList by Peter Orbaek E<lt>poe@cit.dkE<gt>.

Mail::Mailer and Mail::Send by Tim Bunce E<lt>Tim.Bunce@ig.co.ukE<gt>.

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See [F<http://www.perl.com/perl/misc/Artistic.html>](http://www.perl.com/perl/misc/Artistic.html)

Found in path(s):

```
* /opt/cola/permits/1146929080_1616812141.62/0/libmailtools-perl-2-21-orig-1-tar-gz/MailTools-2.21/lib/Mail/Field/Generic.pod
```

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=encoding utf8

=head1 NAME

Mail::Field - base-class for manipulation of mail header fields

=head1 INHERITANCE

Mail::Field is extended by

Mail::Field::AddrList

Mail::Field::Date

Mail::Field::Generic

=head1 SYNOPSIS

```
use Mail::Field;
```

```
my $field = Mail::Field->new('Subject', 'some subject text');
my $field = Mail::Field->new(Subject => 'some subject text');
print $field->tag, ":", $field->stringify, "\n";
```

```
my $field = Mail::Field->subject('some subject text');
```

=head1 DESCRIPTION

C<Mail::Field> creates and manipulates fields in MIME headers, collected within a L<Mail::Header|Mail::Header> object. Different field types have their own sub-class (extension), defining additional useful accessors to the field content.

People are invited to merge their implementation to special fields into MailTools, to maintain a consistent set of packages and documentation.

=head1 METHODS

=head2 Constructors

Mail::Field (and it's sub-classes) define several methods which return new objects. These can all be categorized as constructor.

=over 4

=item Mail::Field-E<gt>B<combine>(\$fields)

Take a LIST of C<Mail::Field> objects (which should all be of the same sub-class) and create a new object in that same class.

=item Mail::Field-E<gt>B<extract>(\$tag, \$head [, \$index])

Takes as arguments the tag name, a C<Mail::Head> object and optionally an index.

If the index argument is given then C<extract> will retrieve the given tag from the C<Mail::Head> object and create a new C<Mail::Field> based object. I<undef> will be returned in the field does not exist.

If the index argument is not given the result depends on the context in which C<extract> is called. If called in a scalar context the result will be as if C<extract> was called with an index value of zero. If called in an array context then all tags will be retrieved and a list of C<Mail::Field> objects will be returned.

=item Mail::Field-E<gt>B<new>(\$tag [, STRING | %options])

Create an object in the class which defines the field specified by the \$tag argument.

=back

=head2 "Fake" constructors

=over 4

=item \$obj-E<gt>B<create>(%options)

This constructor is used internally with preprocessed field information. When called on an existing object, its original content will get replaced.

=item \$obj-E<gt>B<parse>()

Parse a field line.

=back

=head2 Accessors

=over 4

=item \$obj-E<gt>B<set>(%options)

Change the settings (the content, but then smart) of this field.

=item \$obj-E<gt>B<stringify>()

Returns the field as a string.

=item \$obj-E<gt>B<tag>()

=item Mail::Field-E<gt>B<tag>()

Return the tag (in the correct case) for this item. Well, actually any casing is OK, because the field tags are treated case-insensitive; however people have some preferences.

=back

=head2 Smart accessors

=over 4

=item \$obj-E<gt>B<text>([STRING])

Without arguments, the field is returned as L<stringify()|Mail::Field/"Accessors"> does. Otherwise, the STRING is parsed with L<parse()|Mail::Field/"Fake" constructors"> to replace the object's content.

It is more clear to call either L<stringify()|Mail::Field/"Accessors"> or L<parse()|Mail::Field/"Fake" constructors"> directly, because this method does not add additional processing.

=back

=head1 DETAILS

=head2 SUB-CLASS PACKAGE NAMES

All sub-classes should be called Mail::Field::I<name> where I<name> is derived from the tag using these rules.

=over 4

=item *

Consider a tag as being made up of elements separated by '-'

=item *

Convert all characters to lowercase except the first in each element, which should be uppercase.

=item *

I<name> is then created from these elements by using the first N characters from each element.

=item *

N is calculated by using the formula :-

$$\text{int}((7 + \#\text{elements}) / \#\text{elements})$$

=item *

I<name> is then limited to a maximum of 8 characters, keeping the first 8 characters.

=back

For an example of this take a look at the definition of the C<_header_pkg_name()> subroutine in C<Mail::Field>

=head1 DIAGNOSTICS

=over 4

=item Error: Undefined subroutine <method> called

Mail::Field objects use autoloading to compile new functionality. Apparently, the method called is not implemented for the specific class of the field object.

=back

=head1 SEE ALSO

This module is part of the MailTools distribution,
F<<http://perl.overmeer.net/mailtools/>>.

=head1 AUTHORS

The MailTools bundle was developed by Graham Barr. Later, Mark Overmeer took over maintenance without commitment to further development.

Mail::Cap by Gisle Aas E<lt>aas@oslonett.noE<gt>.

Mail::Field::AddrList by Peter Orbaek E<lt>poe@cit.dkE<gt>.
Mail::Mailer and Mail::Send by Tim Bunce E<lt>Tim.Bunce@ig.co.ukE<gt>.
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Found in path(s):

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2.21/lib/Mail/Field.pod

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=encoding utf8

=head1 NAME

Mail::Util - mail utility functions

=head1 INHERITANCE

Mail::Util

is a Exporter

=head1 SYNOPSIS

```
use Mail::Util qw( ... );
```

=head1 DESCRIPTION

This package provides several mail related utility functions. Any function
required must be explicitly listed on the use line to be exported into
the calling package.

=head1 FUNCTIONS

=over 4

=item B<mailaddress>([\$address])

Return a guess at the current users mail address. The user can force
the return value by setting the MAILADDRESS environment variable.

[2.10] You may set the \$address via the parameter.

WARNING:

When not supplied via the environment variable, <mailaddress> looks at various configuration files and other environmental data. Although this seems to be smart behavior, this is not predictable enough (IMHO) to be used. Please set the MAILADDRESS explicitly, and do not trust on the "automatic detection", even when that produces a correct address (on the moment)

example:

```
# in your main script
$ENV{MAILADDRESS} = 'me@example.com';
```

```
# everywhere else
use Mail::Util 'mailaddress';
print mailaddress;
```

```
# since v2.10
mailaddress "me@example.com";
```

```
=item B<maildomain>()
```

Attempt to determine the current user mail domain string via the following methods

```
=over 4
```

```
=item * Look for the MAILDOMAIN environment variable, which can be set from outside the program. This is by far the best way to configure the domain.
```

```
=item * Look for a sendmail.cf file and extract DH parameter
```

```
=item * Look for a smail config file and use the first host defined in hostname(s)
```

```
=item * Try an SMTP connect (if Net::SMTP exists) first to mailhost then localhost
```

```
=item * Use value from Net::Domain::domainname (if Net::Domain exists)
```

```
=back
```

WARNING:

On modern machines, there is only one good way to provide information to this method: the first; always explicitly configure the MAILDOMAIN.

example:

```
# in your main script
```

```
$ENV{MAILDOMAIN} = 'example.com';
```

```
# everywhere else  
use Mail::Util 'maildomain';  
print maildomain;
```

```
=item B<read_mbox>($file)
```

Read \$file, a binmail mailbox file, and return a list of references.
Each reference is a reference to an array containing one message.

WARNING:

This method does not quote lines which accidentally also start with the message separator C<From>, so this implementation can be considered broken. See Mail::Box::Mbox

```
=back
```

```
=head1 SEE ALSO
```

This module is part of the MailTools distribution,
F<<http://perl.overmeer.net/mailtools/>>.

```
=head1 AUTHORS
```

The MailTools bundle was developed by Graham Barr. Later, Mark Overmeer took over maintenance without commitment to further development.

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Mail::Mailer and Mail::Send by Tim Bunce E<lt>Tim.Bunce@ig.co.ukE<gt>.

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```
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```

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Found in path(s):

```
* /opt/cola/permits/1146929080_1616812141.62/0/libmailtools-perl-2-21-orig-1-tar-gz/MailTools-  
2.21/lib/Mail/Util.pod
```

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```
=encoding utf8
```

=head1 NAME

Mail::Header - manipulate MIME headers

=head1 SYNOPSIS

use Mail::Header;

my \$head = Mail::Header->new;

my \$head = Mail::Header->new(*STDIN);

my \$head = Mail::Header->new([<>], Modify => 0);

=head1 DESCRIPTION

Read, write, create, and manipulate MIME headers, the leading part of each modern e-mail message, but also used in other protocols like HTTP. The fields are kept in L<Mail::Field|Mail::Field> objects.

Be aware that the header fields each have a name part, which shall be treated case-insensitive, and a content part, which may be folded over multiple lines.

Mail::Header does not always follow the RFCs strict enough, does not help you with character encodings. It does not use weak references where it could (because those did not exist when the module was written) which costs some performance and make the implementation a little more complicated. The Mail::Message::Head implementation is much newer and therefore better.

=head1 METHODS

=head2 Constructors

=over 4

=item \$obj-E<gt>B<dup>()

Create a duplicate of the current object.

=item \$obj-E<gt>B<new>([\$source], [%options])

=item Mail::Header-E<gt>B<new>([\$source], [%options])

The \$source may be either a file descriptor (reference to a GLOB) or a reference to an array. If given the new object will be initialized with headers either from the array of read from the file descriptor.

%options is a list of options given in the form of key-value pairs, just like a hash table. Valid options are

```
-Option --Default
FoldLength 79
MailFrom 'KEEP'
Modify false
```

=over 2

=item FoldLength => INTEGER

The default length of line to be used when folding header lines.
See L<fold_length()|Mail::Header/"Accessors">.

=item MailFrom => 'IGNORE'|'COERCE'|'KEEP'|'ERROR'

See method L<mail_from()|Mail::Header/"Accessors">.

=item Modify => BOOLEAN

If this value is I<true> then the headers will be re-formatted,
otherwise the format of the header lines will remain unchanged.

=back

=back

=head2 "Fake" constructors

Be warned that the next constructors all require an already created header object, of which the original content will be destroyed.

=over 4

=item \$obj-E<gt>B<empty>()

Empty an existing C<Mail::Header> object of all lines.

=item \$obj-E<gt>B<extract>(ARRAY)

Extract a header from the given array into an existing Mail::Header object. C<extract> B<will modify> this array.
Returns the object that the method was called on.

=item \$obj-E<gt>B<header>([ARRAY])

C<header> does multiple operations. First it will extract a header from the ARRAY, if given. It will then reformat the header (if reformatting is permitted), and finally return a reference to an array which contains the header in a printable form.

```
=item $obj-E<gt>B<header_hashref>( [HASH] )
```

As L<header()|Mail::Header/"Fake" constructors">, but it will eventually set headers from a hash reference, and it will return the headers as a hash reference.

example:

```
$fields->{From} = 'Tobias Brox <tobix@cpan.org>';  
$fields->{To} = ['you@somewhere', 'me@localhost'];  
$head->header_hashref($fields);
```

```
=item $obj-E<gt>B<read>($fh)
```

Read a header from the given file descriptor into an existing Mail::Header object.

```
=back
```

```
=head2 Accessors
```

```
=over 4
```

```
=item $obj-E<gt>B<fold_length>( [$tag], [$length] )
```

Set the default fold length for all tags or just one. With no arguments the default fold length is returned. With two arguments it sets the fold length for the given tag and returns the previous value. If only C<\$length> is given it sets the default fold length for the current object.

In the two argument form C<fold_length> may be called as a static method, setting default fold lengths for tags that will be used by B<all> C<Mail::Header> objects. See the C<fold> method for a description on how C<Mail::Header> uses these values.

```
=item $obj-E<gt>B<mail_from>('IGNORE'|'COERCE'|'KEEP'|'ERROR')
```

This specifies what to do when a C<`From '> line is encountered. Valid values are C<IGNORE> - ignore and discard the header, C<ERROR> - invoke an error (call die), C<COERCE> - rename them as Mail-From and C<KEEP> - keep them.

```
=item $obj-E<gt>B<modify>( [$value] )
```


If C<\$value> is I<false> then C<Mail::Header> will not do any automatic reformatting of the headers, other than to ensure that the line starts with the tags given.

=back

=head2 Processing

=over 4

=item \$obj-E<gt>B<add>(\$tag, \$line [, \$index])

Add a new line to the header. If \$tag is C<undef> the tag will be extracted from the beginning of the given line. If \$index is given, the new line will be inserted into the header at the given point, otherwise the new line will be appended to the end of the header.

=item \$obj-E<gt>B<as_string>()

Returns the header as a single string.

=item \$obj-E<gt>B<cleanup>()

Remove any header line that, other than the tag, only contains whitespace

=item \$obj-E<gt>B<combine>(\$tag [, \$with])

Combine all instances of \$tag into one. The lines will be joined together \$with, or a single space if not given. The new item will be positioned in the header where the first instance was, all other instances of \$tag will be removed.

=item \$obj-E<gt>B<count>(\$tag)

Returns the number of times the given atg appears in the header

=item \$obj-E<gt>B<delete>(\$tag [, \$index])

Delete a tag from the header. If an \$index id is given, then the Nth instance of the tag will be removed. If no \$index is given, then all instances of tag will be removed.

=item \$obj-E<gt>B<fold>([\$length])

Fold the header. If \$length is not given, then C<Mail::Header> uses the following rules to determine what length to fold a line.

=item \$obj-E<gt>B<get>(\$tag [, \$index])

Get the text from a line. If an \$index is given, then the text of the Nth instance will be returned. If it is not given the return value depends on the context in which C<get> was called. In an array context a list of all the text from all the instances of the \$tag will be returned. In a scalar context the text for the first instance will be returned.

The lines are unfolded, but still terminated with a new-line (see C<chomp>)

=item \$obj-E<gt>B<print>([\$fh])

Print the header to the given file descriptor, or C<STDOUT> if no file descriptor is given.

=item \$obj-E<gt>B<replace>(\$tag, \$line [, \$index])

Replace a line in the header. If \$tag is C<undef> the tag will be extracted from the beginning of the given line. If \$index is given the new line will replace the Nth instance of that tag, otherwise the first instance of the tag is replaced. If the tag does not appear in the header then a new line will be appended to the header.

=item \$obj-E<gt>B<tags>()

Returns an array of all the tags that exist in the header. Each tag will only appear in the list once. The order of the tags is not specified.

=item \$obj-E<gt>B<unfold>([\$tag])

Unfold all instances of the given tag so that they do not spread across multiple lines. If C<\$tag> is not given then all lines are unfolded.

The unfolding process is wrong but (for compatibility reasons) will not be repaired: only one blank at the start of the line should be removed, not all of them.

=back

=head1 SEE ALSO

This module is part of the MailTools distribution,
F<<http://perl.overmeer.net/mailtools/>>.

=head1 AUTHORS

The MailTools bundle was developed by Graham Barr. Later, Mark Overmeer took over maintenance without commitment to further development.

Mail::Cap by Gisle Aas E<lt>aas@oslonett.noE<gt>.
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Mail::Mailer and Mail::Send by Tim Bunce E<lt>Tim.Bunce@ig.co.ukE<gt>.
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Found in path(s):

* /opt/cola/permits/1146929080_1616812141.62/0/libmailtools-perl-2-21-orig-1-tar-gz/MailTools-
2.21/lib/Mail/Header.pod

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MailTools

- * My extended documentation: <http://perl.overmeer.net/CPAN/>
- * Development via GitHub: <https://github.com/markov2/perl5-MailTools>
- * Download from CPAN: <ftp://ftp.cpan.org/pub/CPAN/authors/id/M/MA/MARKOV/>
- * Indexed from CPAN: <http://search.cpan.org/~markov/MailTools/>
and <https://metacpan.org/release/MailTools>

MailTools is one of the oldest modules on CPAN. It started off in 1995,
the year Perl 5.0 got released! That's just in the beginning of the
MIME standards.

Email has become more complex over the years. The components of
MailTools only understand very basic emails and fairly simple mime
headers. Fixing some things will break existing applications.

The only reason for still maintaining it, is because it is used as example
in many books and therefore applications still use it. Not because it
is good. Sometimes it is good enough, though.

Later, this module got extended by the MIME::Entity modules to support
multiparts and more smartness. But even those modules are quite limited,
considering modern emails.

****Please note:**** When you start all over, please consider Mail::Box!

For a feature overview, take a look at the

[MailBox overview](http://perl.overmeer.net/mailbox/html/Mail_Box-Overview/)

and

[MailBox features](http://perl.overmeer.net/mailbox/html/Mail_Box-Index/)

pages.

Development & Release

Important to know, is that I use an extension on POD to write the manuals. The "raw" unprocessed version is visible on GitHub. It will run without problems, but does not contain manual-pages.

Releases to CPAN are different: "raw" documentation gets removed from the code and translated into real POD and clean HTML. This reformatting is implemented with the OODoc distribution (A name I chose before OpenOffice existed, sorry for the confusion)

Clone from github for the "raw" version. For instance, when you want to contribute a new feature.

On github, you can find the processed version for each release. But the better source is CPAN; to get it installed simply run:

```
```sh
 cpan -i MailTools
```
```

Contributing

When you want to contribute to this module, you do not need to provide a perfect patch... actually: it is nearly impossible to create a patch which I will merge without modification. Usually, I need to adapt the style of code and documentation to my own strict rules.

When you submit an extension, please contribute a set with

1. code
2. code documentation
3. regression tests in t/

****Please note:****

When you contribute in any way, you agree to transfer the copyrights to Mark Overmeer (you will get the honors in the code and/or ChangeLog). You also automatically agree that your contribution is released under the same license as this project: licensed as perl itself.

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=encoding utf8

=head1 NAME

Mail::Mailer - send simple emails

=head1 INHERITANCE

Mail::Mailer
is an IO::Handle

=head1 SYNOPSIS

```
use Mail::Mailer;
use Mail::Mailer qw(mail); # specifies default mailer
```

```
$mailer = Mail::Mailer->new;
$mailer = Mail::Mailer->new($type, @args);
```

```
$mailer->open(\%headers);
print $mailer $body;
$mailer->close
    or die "couldn't send whole message: $!\n";
```

=head1 DESCRIPTION

Sends mail using any of the built-in methods. As TYPE argument to L<new()|Mail::Mailer/"Constructors">, you can specify any of

=over 4

=item C<sendmail>

Use the C<sendmail> program to deliver the mail.

=item C<smtp>

Use the C<smtp> protocol via Net::SMTP to deliver the mail. The server

to use can be specified in C<@args> with

```
$mailer = Mail::Mailer->new('smtp', Server => $server);
```

The smtp mailer does not handle C<Cc> and C<Bcc> lines, neither their C<Resent-*> fellows. The C<Debug> options enables debugging output from C<Net::SMTP>.

[added 2.21] You may also use the C<< StartTLS => 1 >> options to upgrade the connection with STARTTLS. You need C<libnet> version 1.28 (2014) for this to work.

You may also use the C<< Auth => [\$user, \$password] >> option for SASL authentication. To make this work, you have to install the L<Authen::SASL> distribution yourself: it is not automatically installed.

=item C<smtps>

This option is B<deprecated> when you have C<libnet> 1.28 (2014) and above.

Use the smtp over ssl protocol via L<Net::SMTP::SSL> to deliver the mail. Usage is identical to C<smtp>. You have to install Authen::SASL as well.

```
$mailer = Mail::Mailer->new('smtps', Server => $server);
```

=item C<qmail>

Use qmail's qmail-inject program to deliver the mail.

=item C<testfile>

Used for debugging, this displays the data to the file named in C<\${Mail::Mailer::testfile::config{ outfile}}> which defaults to a file named C<mailer.testfile>. No mail is ever sent.

=back

C<Mail::Mailer> will search for executables in the above order. The default mailer will be the first one found.

=head1 METHODS

=head2 Constructors

=over 4

=item Mail::Mailer-E<gt>B<new>(\$type, %options)

The \$type is one of the back-end sender implementations, as described in the DESCRIPTION chapter of this manual page. The %options are passed to that back-end.

=item \$obj-E<gt>B<open>(HASH)

The HASH consists of key and value pairs, the key being the name of the header field (eg, C<To>), and the value being the corresponding contents of the header field. The value can either be a scalar (eg, C<gnat@frii.com>) or a reference to an array of scalars (C<< eg, ['gnat@frii.com', 'Tim.Bunce@ig.co.uk'] >>).

=back

=head1 DETAILS

=head2 ENVIRONMENT VARIABLES

=over 4

=item PERL_MAILERS

Augments/override the build in choice for binary used to send out our mail messages.

Format:

"type1:mailbinary1;mailbinary2;...:type2:mailbinaryX;...:..."

Example: assume you want you use private sendmail binary instead of mailx, one could set C<PERL_MAILERS> to:

"mail:/does/not/exists:sendmail:\$HOME/test/bin/sendmail"

On systems which may include C<:> in file names, use C<|> as separator between type-groups.

"mail:c:/does/not/exists|sendmail:\$HOME/test/bin/sendmail"

=back

=head2 BUGS

Mail::Mailer does not help with folding, and does not protect against various web-script hacker attacks, for instance where a new-line is inserted in the content of the field.

=head1 SEE ALSO

This module is part of the MailTools distribution,
F<<http://perl.overmeer.net/mailtools/>>.

=head1 AUTHORS

The MailTools bundle was developed by Graham Barr. Later, Mark Overmeer took over maintenance without commitment to further development.

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1.232 gdbm 1.18.1-5

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1.234 fcgi 0.79-1

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1.235 alsa-ucm-conf 1.2.2 1ubuntu0.11

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Upstream-Name: alsa-ucm-conf

Upstream-Contact: Jarsolav Kysela <perex@suse.cz>

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1.236 zipp 1.0.0

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1.237 netplan-io 0.99-0ubuntu3~20.04.2

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Version 3, 29 June 2007

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1.239 kerberos 1.17-6ubuntu4.1

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in "src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h

lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including the following new or changed files:

include/iprof_hdr.h
kadmin/server/iprofd_svc.c
lib/kdb/iprof.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
kprop/kproplog.c

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1.241 python-certifi 2019.11.28-1

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Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#

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<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>

It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php_curl, or with an Apache+mod_ssl webserver for SSL client authentication. Just configure this file as the SSLCACertificateFile.#

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1.242 byobu 5.133-0ubuntu1

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That's all there is to it!

1.245 more-itertools 4.2.0-1build1

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1.246 procps 3.3.16-1ubuntu2

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Argon2 reference source code package - reference C implementations

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```

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1.249 sensible-utils 0.0.12+nmu1

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Upstream-Contact: Anibal Monsalve Salazar <anibal@debian.org>

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1.250 libfile-listing-perl 6.04-1

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=head1 NAME

File::Listing - parse directory listing

=head1 SYNOPSIS

```
use File::Listing qw(parse_dir);
$ENV{LANG} = "C"; # dates in non-English locales not supported
for (parse_dir(`ls -l`)) {
    ($name, $type, $size, $mtime, $mode) = @$_;
    next if $type ne 'f'; # plain file
    #...
}
```

```
# directory listing can also be read from a file
open(LISTING, "zcat ls-lR.gz");
$dir = parse_dir(*LISTING, '+0000');
```

=head1 DESCRIPTION

This module exports a single function called `parse_dir()`, which can be used to parse directory listings.

The first parameter to `parse_dir()` is the directory listing to parse. It can be a scalar, a reference to an array of directory lines or a glob representing a filehandle to read the directory listing from.

The second parameter is the time zone to use when parsing time stamps in the listing. If this value is undefined, then the local time zone is assumed.

The third parameter is the type of listing to assume. Currently supported formats are 'unix', 'apache' and 'dosftp'. The default value is 'unix'. Ideally, the listing type should be determined automatically.

The fourth parameter specifies how unparseable lines should be treated. Values can be 'ignore', 'warn' or a code reference. Warn means that the perl `warn()` function will be called. If a code reference is passed, then this routine will be called and the return value from it will be incorporated in the listing. The default is 'ignore'.

Only the first parameter is mandatory.

The return value from `parse_dir()` is a list of directory entries. In a scalar context the return value is a reference to the list. The directory entries are represented by an array consisting of [\$filename, \$filetype, \$filesize, \$filetime, \$filemode]. The \$filetype value is one of the letters 'f', 'd', 'l' or '?'. The \$filetime value is the seconds since Jan 1, 1970. The \$filemode is a bitmask like the mode returned by `stat()`.

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NAME

File::Listing - parse directory listing

SYNOPSIS

```
use File::Listing qw(parse_dir);
$ENV{LANG} = "C"; # dates in non-English locales not supported
for (parse_dir('ls -l')) {
    ($name, $type, $size, $mtime, $mode) = @$_;
    next if $type ne 'f'; # plain file
    #...
}

# directory listing can also be read from a file
open(LISTING, "zcat ls-lR.gz|");
$dir = parse_dir(\*LISTING, '+0000');
```

DESCRIPTION

This module exports a single function called `parse_dir()`, which can be used to parse directory listings.

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1.251 screen 4.8.0-1ubuntu0.1

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1.253 fuse 2.9.9-3

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1.254 libcurses-ui-perl 0.9609-1

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1.255 sysstat 12.2.0-2ubuntu0.1

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1.256 brotli 1.0.7-6ubuntu0.1

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1.257 ltrace 0.7.3-6.1ubuntu1

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```

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1.258 libio-html-perl 1.001-1

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```
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```

```
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1.259 pyserial 3.4-5.1

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1.260 libterm-readkey-perl 2.38-1build1

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1.261 libvorbis 1.3.6 2ubuntu1

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Upstream-Contact: Monty <monty@xiph.org>

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1.262 jsonpointer 2.0

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1.263 base-files 11ubuntu6

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- c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

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- b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
- c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) <year> <name of author>
```

```
This program is free software; you can redistribute it and/or modify  
it under the terms of the GNU General Public License as published by  
the Free Software Foundation; either version 2 of the License, or  
(at your option) any later version.
```

```
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```

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```

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If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
This is free software, and you are welcome to redistribute it  
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

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Ty Coon, President of Vice

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c) accompany it with the information you received as to where the corresponding source code may be obtained. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form alone.)

Source code for a work means the preferred form of the work for making modifications to it. For an executable file, complete source code means all the source code for all modules it contains; but, as a special exception, it need not include source code for modules which are standard libraries that accompany the operating system on which the executable file runs, or for standard header files or definitions files that accompany that operating system.

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Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to humanity, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) 19yy <name of author>
```

```
This program is free software; you can redistribute it and/or modify  
it under the terms of the GNU General Public License as published by  
the Free Software Foundation; either version 1, or (at your option)  
any later version.
```

```
This program is distributed in the hope that it will be useful,  
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```

```
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Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston MA 02110-1301 USA
```

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) 19xx name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the
program `Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

That's all there is to it!

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Version 3, 29 June 2007

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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

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The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

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1.264 libcgi-fast-perl 2.15-1

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NAME

CGI::Fast - CGI Interface for Fast CGI

<div>

</div>

SYNOPSIS

```
use CGI::Fast
```

```
    socket_path => '9000',
```

```
    socket_perm => 0777,
```

```
    listen_queue => 50;
```

```
use CGI qw/ :standard /;
```

```
$COUNTER = 0;
```

```
# optional, will default to STDOUT, STDERR
```

```
CGI::Fast->file_handles({
```

```
    fcgi_output_file_handle => IO::Handle->new,
```

```
    fcgi_error_file_handle => IO::Handle->new,
```

```
});
```

```
while ($q = CGI::Fast->new) {
```

```
    process_request($q);
```

```
}
```

DESCRIPTION

CGI::Fast is a subclass of the CGI object created by CGI.pm. It is specialized to work with the FCGI module, which greatly speeds up CGI scripts by turning them into persistently running server processes. Scripts that perform time-consuming initialization processes, such as loading large modules or opening persistent database connections, will see large performance improvements.

Note that as CGI::Fast is based on CGI.pm it is no longer advised as a way to write Perl web apps. See <https://metacpan.org/pod/CGI#CGI.pm-HAS-BEEN-REMOVED-FROM-THE-PERL-CORE> for more information about this

OTHER PIECES OF THE PUZZLE

In order to use CGI::Fast you'll need the FCGI module. See <http://www.cpan.org/> for details.

WRITING FASTCGI PERL SCRIPTS

FastCGI scripts are persistent: one or more copies of the script are started up when the server initializes, and stay around until the server exits or they die a natural death. After performing whatever one-time initialization it needs, the script enters a loop waiting for incoming connections, processing the request, and waiting some more.

A typical FastCGI script will look like this:

```
#!/perl
use CGI::Fast;
do_some_initialization();
while ($q = CGI::Fast->new) {
    process_request($q);
}
```

Each time there's a new request, CGI::Fast returns a CGI object to your loop. The rest of the time your script waits in the call to new(). When the server requests that your script be terminated, new() will return undef. You can of course exit earlier if you choose. A new version of the script will be respawned to take its place (this may be necessary in order to avoid Perl memory leaks in long-running scripts).

CGI.pm's default CGI object mode also works. Just modify the loop this way:

```
while (CGI::Fast->new) {
    process_request();
}
```

Calls to header(), start_form(), etc. will all operate on the current request.

INSTALLING FASTCGI SCRIPTS

See the FastCGI developer's kit documentation for full details. On the Apache server, the following line must be added to srm.conf:

```
AddType application/x-httpd-fcgi .fcgi
```

FastCGI scripts must end in the extension .fcgi. For each script you install, you must add something like the following to srm.conf:

```
FastCgiServer /usr/etc/httpd/fcgi-bin/file_upload.fcgi -processes 2
```

This instructs Apache to launch two copies of file_upload.fcgi at startup time.

USING FASTCGI SCRIPTS AS CGI SCRIPTS

Any script that works correctly as a FastCGI script will also work correctly when installed as a vanilla CGI script. However it will not see any performance benefit.

EXTERNAL FASTCGI SERVER INVOCATION

FastCGI supports a TCP/IP transport mechanism which allows FastCGI scripts to run external to the webserver, perhaps on a remote machine. To configure the webserver to connect to an external FastCGI server, you would add the following to your srm.conf:

```
FastCgiExternalServer /usr/etc/httpd/fcgi-bin/file_upload.fcgi -host sputnik:8888
```

Two environment variables affect how the `CGI::Fast` object is created, allowing `CGI::Fast` to be used as an external FastCGI server. (See `FCGI` documentation for `FCGI::OpenSocket` for more information.)

You can set these as ENV variables or imports in the use CGI::Fast statement. If the ENV variables are set then these will be favoured so you can override the import statements on the command line, etc.

```
- FCGI_SOCKET_PATH / socket_path
```

The address (TCP/IP) or path (UNIX Domain) of the socket the external FastCGI script to which bind and listen for incoming connections from the web server.

```
- FCGI_SOCKET_PERM / socket_perm
```

Permissions for UNIX Domain socket.

```
- FCGI_LISTEN_QUEUE / listen_queue
```

Maximum length of the queue of pending connections, defaults to 100.

For example:

```
use CGI::Fast
    socket_path => "sputnik:8888",
    listen_queue => "50"
;

use CGI qw/ :standard /;

do_some_initialization();

while ($q = CGI::Fast->new) {
    process_request($q);
}
```

Or:

```
use CGI::Fast;
use CGI qw/ :standard /;

do_some_initialization();

$ENV{FCGI_SOCKET_PATH} = "sputnik:8888";
$ENV{FCGI_LISTEN_QUEUE} = 50;

while ($q = CGI::Fast->new) {
    process_request($q);
}
```

Note the importance of having use CGI after use CGI::Fast as this will prevent any CGI import pragmas being overwritten by CGI::Fast. You can use CGI::Fast as a drop in replacement like so:

```
use CGI::Fast qw/ :standard /
```

FILE HANDLES

FCGI defaults to using STDOUT and STDERR as its output filehandles - this may lead to unexpected redirect of output if you migrate scripts from CGI.pm to CGI::Fast. To get around this you can use the file_handles method, which you must do ****before**** the first call to CGI::Fast->new. For example using IO::Handle:

```
CGI::Fast->file_handles({
    fcgi_output_file_handle => IO::Handle->new,
    fcgi_error_file_handle => IO::Handle->new,
```

```
});  
  
while (CGI::Fast->new) {  
    ..  
}
```

Overriding STDIN using the `fcgi_input_file_handle` key is also possible, however doing so is likely to break at least POST requests.

CAVEATS

I haven't tested this very much.

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<https://github.com/leejo/cgi-fast>

BUGS

This section intentionally left blank.

SEE ALSO

[CGI::Carp](<https://metacpan.org/pod/CGI::Carp>), [CGI](<https://metacpan.org/pod/CGI>)

Found in path(s):

- * /opt/cola/permits/1146929234_1616812377.37/0/libcgi-fast-perl-2-15-orig-1-tar-gz/CGI-Fast-2.15/README
- * /opt/cola/permits/1146929234_1616812377.37/0/libcgi-fast-perl-2-15-orig-1-tar-gz/CGI-Fast-2.15/README.md

No license file was found, but licenses were detected in source scan.

=head1 NAME

CGI::Fast - CGI Interface for Fast CGI

=for html

<https://travis-ci.org/leejo/cgi-fast?branch=master>>

<https://coveralls.io/r/leejo/cgi-fast?branch=master>>

=head1 SYNOPSIS

```
use CGI::Fast
    socket_path => '9000',
    socket_perm => 0777,
    listen_queue => 50;

use CGI qw/ :standard /;

$COUNTER = 0;

# optional, will default to STDOUT, STDERR
CGI::Fast->file_handles({
    fcgi_output_file_handle => IO::Handle->new,
    fcgi_error_file_handle => IO::Handle->new,
});

while ($q = CGI::Fast->new) {
    process_request($q);
}
```

=head1 DESCRIPTION

CGI::Fast is a subclass of the CGI object created by CGI.pm. It is specialized to work with the FCGI module, which greatly speeds up CGI scripts by turning them into persistently running server processes. Scripts that perform time-consuming initialization processes, such as loading large modules or opening persistent database connections, will see large performance improvements.

Note that as CGI::Fast is based on CGI.pm it is no longer advised as a way to write Perl web apps. See [L<https://metacpan.org/pod/CGI#CGI.pm-HAS-BEEN-REMOVED-FROM-THE-PERL-CORE>](https://metacpan.org/pod/CGI#CGI.pm-HAS-BEEN-REMOVED-FROM-THE-PERL-CORE) for more information about this

=head1 OTHER PIECES OF THE PUZZLE

In order to use CGI::Fast you'll need the FCGI module. See <http://www.cpan.org/> for details.

=head1 WRITING FASTCGI PERL SCRIPTS

FastCGI scripts are persistent: one or more copies of the script are started up when the server initializes, and stay around until the server exits or they die a natural death. After performing whatever one-time initialization it needs, the script enters a loop waiting for incoming connections, processing the request, and waiting some more.

A typical FastCGI script will look like this:

```
#!/perl
use CGI::Fast;
do_some_initialization();
while ($q = CGI::Fast->new) {
    process_request($q);
}
```

Each time there's a new request, CGI::Fast returns a CGI object to your loop. The rest of the time your script waits in the call to new(). When the server requests that your script be terminated, new() will return undef. You can of course exit earlier if you choose. A new version of the script will be respawned to take its place (this may be necessary in order to avoid Perl memory leaks in long-running scripts).

CGI.pm's default CGI object mode also works. Just modify the loop this way:

```
while (CGI::Fast->new) {
    process_request();
}
```

Calls to header(), start_form(), etc. will all operate on the current request.

=head1 INSTALLING FASTCGI SCRIPTS

See the FastCGI developer's kit documentation for full details. On the Apache server, the following line must be added to srm.conf:

```
AddType application/x-httpd-fcgi .fcgi
```

FastCGI scripts must end in the extension .fcgi. For each script you install, you must add something like the following to srm.conf:

```
FastCgiServer /usr/etc/httpd/fcgi-bin/file_upload.fcgi -processes 2
```

This instructs Apache to launch two copies of file_upload.fcgi at startup time.

=head1 USING FASTCGI SCRIPTS AS CGI SCRIPTS

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not see any performance benefit.

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FastCGI supports a TCP/IP transport mechanism which allows FastCGI scripts to run external to the webserver, perhaps on a remote machine. To configure the webserver to connect to an external FastCGI server, you would add the following to your srm.conf:

```
FastCgiExternalServer /usr/etc/httpd/fcgi-bin/file_upload.fcgi -host sputnik:8888
```

Two environment variables affect how the C<CGI::Fast> object is created, allowing C<CGI::Fast> to be used as an external FastCGI server. (See C<FCGI> documentation for C<FCGI::OpenSocket> for more information.)

You can set these as ENV variables or imports in the use CGI::Fast statement. If the ENV variables are set then these will be favoured so you can override the import statements on the command line, etc.

=over

=item FCGI_SOCKET_PATH / socket_path

The address (TCP/IP) or path (UNIX Domain) of the socket the external FastCGI script to which bind and listen for incoming connections from the web server.

=item FCGI_SOCKET_PERM / socket_perm

Permissions for UNIX Domain socket.

=item FCGI_LISTEN_QUEUE / listen_queue

Maximum length of the queue of pending connections, defaults to 100.

=back

For example:

```
use CGI::Fast
    socket_path => "sputnik:8888",
    listen_queue => "50"
;

use CGI qw/ :standard /;

do_some_initialization();

while ($q = CGI::Fast->new) {
```



```
    process_request($q);
}
```

Or:

```
use CGI::Fast;
use CGI qw/ :standard /;

do_some_initialization();

$ENV{FCGI_SOCKET_PATH} = "sputnik:8888";
$ENV{FCGI_LISTEN_QUEUE} = 50;

while ($q = CGI::Fast->new) {
    process_request($q);
}
```

Note the importance of having `use CGI` after `use CGI::Fast` as this will prevent any CGI import pragmas being overwritten by `CGI::Fast`. You can use `CGI::Fast` as a drop in replacement like so:

```
use CGI::Fast qw/ :standard /
```

=head1 FILE HANDLES

FCGI defaults to using `STDOUT` and `STDERR` as its output filehandles - this may lead to unexpected redirect of output if you migrate scripts from `CGI.pm` to `CGI::Fast`. To get around this you can use the `file_handles` method, which you must do `B<before>` the first call to `CGI::Fast->new`. For example using `IO::Handle`:

```
CGI::Fast->file_handles({
    fcgi_output_file_handle => IO::Handle->new,
    fcgi_error_file_handle => IO::Handle->new,
});

while (CGI::Fast->new) {
    ..
}
```

Overriding `STDIN` using the `C<fcgi_input_file_handle>` key is also possible, however doing so is likely to break at least `POST` requests.

=head1 CAVEATS

I haven't tested this very much.

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Address bug reports and comments to:

<https://github.com/leejo/cgi-fast>

=head1 BUGS

This section intentionally left blank.

=head1 SEE ALSO

L<CGI::Carp>, L<CGI>

=cut

Found in path(s):

* /opt/cola/permits/1146929234_1616812377.37/0/libcgi-fast-perl-2-15-orig-1-tar-gz/CGI-Fast-2.15/lib/CGI/Fast.pm

No license file was found, but licenses were detected in source scan.

abstract: unknown

author:

- unknown

build_requires:

File::Temp: '0'

Test::More: '0'

configure_requires: { }

dynamic_config: 1

generated_by: 'ExtUtils::MakeMaker version 7.34, CPAN::Meta::Converter version 2.150010'

license: perl

meta-spec:

url: <http://module-build.sourceforge.net/META-spec-v1.4.html>

version: '1.4'

name: CGI-Fast

no_index:

directory:

- t

- inc

- t

requires:

CGI: '4'
Carp: '0'
FCGI: '0.67'
if: '0'
perl: '5.008001'
resources:
bugtracker: <https://github.com/leejo/cgi-fast/issues>
homepage: <https://metacpan.org/module/CGI::Fast>
license: <http://dev.perl.org/licenses/>
repository: <https://github.com/leejo/cgi-fast>
version: '2.15'
x_serialization_backend: 'CPAN::Meta::YAML version 0.018'

Found in path(s):

* /opt/cola/permits/1146929234_1616812377.37/0/libcgi-fast-perl-2-15-orig-1-tar-gz/CGI-Fast-2.15/META.yml

1.265 libhttp-message-perl 6.22-1

1.265.1 Available under license :

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If you develop a new program, and you want it to be of the greatest possible use to humanity, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to

attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) 19yy <name of author>
```

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Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) 19xx name of author  
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
This is free software, and you are welcome to redistribute it  
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the  
program `Gnomovision' (a program to direct compilers to make passes  
at assemblers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989  
Ty Coon, President of Vice
```


That's all there is to it!

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- c) accompany any non-standard executables with their corresponding Standard Version executables, giving the non-standard executables non-standard names, and clearly documenting the differences in manual pages (or equivalent), together with instructions on where to get the Standard Version.
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- * Adam Sjogren
- * Alexey Tourbin
- * Alex Kapranoff
- * amire80
- * Andreas J. Koenig
- * Bill Mann
- * Brendan Byrd
- * Bron Gondwana
- * Chase Whitener
- * Christopher J. Madsen
- * chromatic
- * Daniel Hedlund
- * David E. Wheeler
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1.266 zstd 1.5.0

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) 19yy <name of author>
```

```
This program is free software; you can redistribute it and/or modify  
it under the terms of the GNU General Public License as published by  
the Free Software Foundation; either version 2 of the License, or  
(at your option) any later version.
```

```
This program is distributed in the hope that it will be useful,  
but WITHOUT ANY WARRANTY; without even the implied warranty of  
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the  
GNU General Public License for more details.
```

```
You should have received a copy of the GNU General Public License  
along with this program; if not, write to the Free Software  
Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
```


Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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Version 2, June 1991

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[This is the first released version of the library GPL. It is
numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

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Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary

one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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- b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
- d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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Appendix: How to Apply These Terms to Your New Libraries

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the

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<one line to give the library's name and a brief idea of what it does.>

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You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

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<signature of Ty Coon>, 1 April 1990
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1.273 libhttp-server-simple-perl 0.52-1

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1.274 ebttables 1.8.4-3ubuntu2

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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) <year> <name of author>
```

```
This program is free software; you can redistribute it and/or modify  
it under the terms of the GNU General Public License as published by  
the Free Software Foundation; either version 2 of the License, or  
(at your option) any later version.
```

```
This program is distributed in the hope that it will be useful,  
but WITHOUT ANY WARRANTY; without even the implied warranty of
```

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Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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1.275 libdrm 2.4.101-2

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1.276 audit 2.8.5-2ubuntu6

1.276.1 Available under license :

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Version 2.1, February 1999

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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to

encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for

making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
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(For example, a function in a library to compute square roots has

a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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It may happen that this requirement contradicts the license

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<signature of Ty Coon>, 1 April 1990
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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

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- c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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```

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```

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1.279 libhttp-negotiate-perl 6.01-1

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=head1 NAME

HTTP::Negotiate - choose a variant to serve

=head1 SYNOPSIS

```
use HTTP::Negotiate qw(choose);
```

```
# ID    QS    Content-Type  Encoding Char-Set    Lang  Size
$variants =
[[ 'var1', 1.000, 'text/html',  undef, 'iso-8859-1', 'en', 3000],
 [ 'var2', 0.950, 'text/plain', 'gzip', 'us-ascii',  'no', 400],
 [ 'var3', 0.3,  'image/gif',  undef, undef,      undef, 43555],
];
```

```
@preferred = choose($variants, $request_headers);
```

```
$the_one = choose($variants);
```

=head1 DESCRIPTION

This module provides a complete implementation of the HTTP content negotiation algorithm specified in F<draft-ietf-http-v11-spec-00.ps> chapter 12. Content negotiation allows for the selection of a preferred content representation based upon attributes of the negotiable variants and the value of the various Accept* header fields in the request.

The variants are ordered by preference by calling the function choose().

The first parameter is reference to an array of the variants to choose among.

Each element in this array is an array with the values [\$id, \$qs, \$content_type, \$content_encoding, \$charset, \$content_language, \$content_length] whose meanings are described below. The \$content_encoding and \$content_language can be either a single scalar value or an array reference if there are several values.

The second optional parameter is either a HTTP::Headers or a HTTP::Request object which is searched for "Accept*" headers. If this parameter is missing, then the accept specification is initialized from the CGI environment variables HTTP_ACCEPT, HTTP_ACCEPT_CHARSET, HTTP_ACCEPT_ENCODING and HTTP_ACCEPT_LANGUAGE.

In an array context, choose() returns a list of [variant

identifier, calculated quality, size] tuples. The values are sorted by quality, highest quality first. If the calculated quality is the same for two variants, then they are sorted by size (smallest first). I<E.g.>:

```
(['var1', 1, 2000], ['var2', 0.3, 512], ['var3', 0.3, 1024]);
```

Note that also zero quality variants are included in the return list even if these should never be served to the client.

In a scalar context, it returns the identifier of the variant with the highest score or C<undef> if none have non-zero quality.

If the \$HTTP::Negotiate::DEBUG variable is set to TRUE, then a lot of noise is generated on STDOUT during evaluation of choose().

=head1 VARIANTS

A variant is described by a list of the following values. If the attribute does not make sense or is unknown for a variant, then use C<undef> instead.

=over 3

=item identifier

This is a string that you use as the name for the variant. This identifier for the preferred variants returned by choose().

=item qs

This is a number between 0.000 and 1.000 that describes the "source quality". This is what F<draft-ietf-http-v11-spec-00.ps> says about this value:

Source quality is measured by the content provider as representing the amount of degradation from the original source. For example, a picture in JPEG form would have a lower qs when translated to the XBM format, and much lower qs when translated to an ASCII-art representation. Note, however, that this is a function of the source - an original piece of ASCII-art may degrade in quality if it is captured in JPEG form. The qs values should be assigned to each variant by the content provider; if no qs value has been assigned, the default is generally "qs=1".

=item content-type

This is the media type of the variant. The media type does not include a charset attribute, but might contain other parameters.

Examples are:

text/html
text/html;version=2.0
text/plain
image/gif
image/jpg

=item content-encoding

This is one or more content encodings that has been applied to the variant. The content encoding is generally used as a modifier to the content media type. The most common content encodings are:

gzip
compress

=item content-charset

This is the character set used when the variant contains text. The charset value should generally be C<undef> or one of these:

us-ascii
iso-8859-1 ... iso-8859-9
iso-2022-jp
iso-2022-jp-2
iso-2022-kr
unicode-1-1
unicode-1-1-utf-7
unicode-1-1-utf-8

=item content-language

This describes one or more languages that are used in the variant. Language is described like this in F<draft-ietf-http-v11-spec-00.ps>: A language is in this context a natural language spoken, written, or otherwise conveyed by human beings for communication of information to other human beings. Computer languages are explicitly excluded.

The language tags are defined by RFC 3066. Examples are:

no Norwegian
en International English
en-US US English
en-cockney

=item content-length

This is the number of bytes used to represent the content.

=back

=head1 ACCEPT HEADERS

The following Accept* headers can be used for describing content preferences in a request (This description is an edited extract from F<draft-ietf-http-v11-spec-00.ps>):

=over 3

=item Accept

This header can be used to indicate a list of media ranges which are acceptable as a response to the request. The "*" character is used to group media types into ranges, with "*/*" indicating all media types and "type/*" indicating all subtypes of that type.

The parameter q is used to indicate the quality factor, which represents the user's preference for that range of media types. The parameter mbx gives the maximum acceptable size of the response content. The default values are: q=1 and mbx=infinity. If no Accept header is present, then the client accepts all media types with q=1.

For example:

```
Accept: audio/*;q=0.2;mbx=200000, audio/basic
```

would mean: "I prefer audio/basic (of any size), but send me any audio type if it is the best available after an 80% mark-down in quality and its size is less than 200000 bytes"

=item Accept-Charset

Used to indicate what character sets are acceptable for the response. The "us-ascii" character set is assumed to be acceptable for all user agents. If no Accept-Charset field is given, the default is that any charset is acceptable. Example:

```
Accept-Charset: iso-8859-1, unicode-1-1
```

=item Accept-Encoding

Restricts the Content-Encoding values which are acceptable in the

response. If no Accept-Encoding field is present, the server may assume that the client will accept any content encoding. An empty Accept-Encoding means that no content encoding is acceptable. Example:

```
Accept-Encoding: compress, gzip
```

=item Accept-Language

This field is similar to Accept, but restricts the set of natural languages that are preferred in a response. Each language may be given an associated quality value which represents an estimate of the user's comprehension of that language. For example:

```
Accept-Language: no, en-gb;q=0.8, de;q=0.55
```

would mean: "I prefer Norwegian, but will accept British English (with 80% comprehension) or German (with 55% comprehension).

=back

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Gisle Aas <gisle@aas.no>

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```
* /opt/cola/permits/1141297611_1614968758.22/0/libhttp-negotiate-perl-6-01-orig-1-tar-gz/HTTP-Negotiate-6.01/lib/HTTP/Negotiate.pm
```

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```
* /opt/cola/permits/1141297611_1614968758.22/0/libhttp-negotiate-perl-6-01-orig-1-tar-gz/HTTP-Negotiate-6.01/META.yml
```

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NAME

HTTP::Negotiate - choose a variant to serve

SYNOPSIS

```
use HTTP::Negotiate qw(choose);

# ID   QS   Content-Type Encoding Char-Set   Lang   Size
$variants =
  [['var1', 1.000, 'text/html', undef, 'iso-8859-1', 'en', 3000],
   ['var2', 0.950, 'text/plain', 'gzip', 'us-ascii', 'no', 400],
   ['var3', 0.3, 'image/gif', undef, undef, undef, 43555],
  ];

@preferred = choose($variants, $request_headers);
$the_one = choose($variants);
```

DESCRIPTION

This module provides a complete implementation of the HTTP content negotiation algorithm specified in draft-ietf-http-v11-spec-00.ps chapter 12. Content negotiation allows for the selection of a preferred content representation based upon attributes of the negotiable variants and the value of the various `Accept*` header fields in the request.

The variants are ordered by preference by calling the function `choose()`.

The first parameter is reference to an array of the variants to choose among. Each element in this array is an array with the values [`$id`, `$qs`, `$content_type`, `$content_encoding`, `$charset`, `$content_language`, `$content_length`] whose meanings are described below. The `$content_encoding` and `$content_language` can be either a single scalar value or an array reference if there are several values.

The second optional parameter is either a `HTTP::Headers` or a `HTTP::Request` object which is searched for "Accept*" headers. If this parameter is missing, then the accept specification is initialized from the CGI environment variables `HTTP_ACCEPT`, `HTTP_ACCEPT_CHARSET`, `HTTP_ACCEPT_ENCODING` and `HTTP_ACCEPT_LANGUAGE`.

In an array context, `choose()` returns a list of [variant identifier, calculated quality, size] tuples. The values are sorted by quality, highest quality first. If the calculated quality is the same for two variants, then they are sorted by size (smallest first). *E.g.*:

```
(['var1', 1, 2000], ['var2', 0.3, 512], ['var3', 0.3, 1024]);
```

Note that also zero quality variants are included in the return list even if these should never be served to the client.

In a scalar context, it returns the identifier of the variant with the

highest score or `undef` if none have non-zero quality.

If the `$HTTP::Negotiate::DEBUG` variable is set to `TRUE`, then a lot of noise is generated on `STDOUT` during evaluation of `choose()`.

VARIANTS

A variant is described by a list of the following values. If the attribute does not make sense or is unknown for a variant, then use `undef` instead.

identifier

This is a string that you use as the name for the variant. This identifier for the preferred variants returned by `choose()`.

`qs` This is a number between 0.000 and 1.000 that describes the "source quality". This is what `draft-ietf-http-v11-spec-00.ps` says about this value:

Source quality is measured by the content provider as representing the amount of degradation from the original source. For example, a picture in JPEG form would have a lower `qs` when translated to the XBM format, and much lower `qs` when translated to an ASCII-art representation. Note, however, that this is a function of the source - an original piece of ASCII-art may degrade in quality if it is captured in JPEG form. The `qs` values should be assigned to each variant by the content provider; if no `qs` value has been assigned, the default is generally "`qs=1`".

content-type

This is the media type of the variant. The media type does not include a `charset` attribute, but might contain other parameters. Examples are:

```
text/html
text/html;version=2.0
text/plain
image/gif
image/jpg
```

content-encoding

This is one or more content encodings that has been applied to the variant. The content encoding is generally used as a modifier to the content media type. The most common content encodings are:

```
gzip
compress
```

content-charset

This is the character set used when the variant contains text. The charset value should generally be `undef` or one of these:

- us-ascii
- iso-8859-1 ... iso-8859-9
- iso-2022-jp
- iso-2022-jp-2
- iso-2022-kr
- unicode-1-1
- unicode-1-1-utf-7
- unicode-1-1-utf-8

content-language

This describes one or more languages that are used in the variant. Language is described like this in draft-ietf-http-v11-spec-00.ps: A language is in this context a natural language spoken, written, or otherwise conveyed by human beings for communication of information to other human beings. Computer languages are explicitly excluded.

The language tags are defined by RFC 3066. Examples are:

- no Norwegian
- en International English
- en-US US English
- en-cockney

content-length

This is the number of bytes used to represent the content.

ACCEPT HEADERS

The following Accept* headers can be used for describing content preferences in a request (This description is an edited extract from draft-ietf-http-v11-spec-00.ps):

Accept

This header can be used to indicate a list of media ranges which are acceptable as a response to the request. The "*" character is used to group media types into ranges, with "*/*" indicating all media types and "type/*" indicating all subtypes of that type.

The parameter q is used to indicate the quality factor, which represents the user's preference for that range of media types. The parameter mbx gives the maximum acceptable size of the response content. The default values are: q=1 and mbx=infinity. If no Accept header is present, then the client accepts all media types with q=1.

For example:

Accept: audio/*;q=0.2;mbx=200000, audio/basic

would mean: "I prefer audio/basic (of any size), but send me any audio type if it is the best available after an 80% mark-down in quality and its size is less than 200000 bytes"

Accept-Charset

Used to indicate what character sets are acceptable for the response. The "us-ascii" character set is assumed to be acceptable for all user agents. If no Accept-Charset field is given, the default is that any charset is acceptable. Example:

Accept-Charset: iso-8859-1, unicode-1-1

Accept-Encoding

Restricts the Content-Encoding values which are acceptable in the response. If no Accept-Encoding field is present, the server may assume that the client will accept any content encoding. An empty Accept-Encoding means that no content encoding is acceptable. Example:

Accept-Encoding: compress, gzip

Accept-Language

This field is similar to Accept, but restricts the set of natural languages that are preferred in a response. Each language may be given an associated quality value which represents an estimate of the user's comprehension of that language. For example:

Accept-Language: no, en-gb;q=0.8, de;q=0.55

would mean: "I prefer Norwegian, but will accept British English (with 80% comprehension) or German (with 55% comprehension).

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AUTHOR

Gisle Aas <gisle@aa.no>

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1.280 berkeley-db 5.3.28+dfsg1-0.6ubuntu2

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1.282 idna 2.8

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Found in path(s):

```
* /opt/cola/permits/1110810307_1606855956.29/0/kjd-idna-v2-8-0-g1cdf175-1-tar-gz/kjd-idna-375dc46/LICENSE.rst
```

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A library to support the Internationalised Domain Names in Applications (IDNA) protocol as specified in RFC 5890 et.al. This new methodology, known as IDNA 2008, can generate materially different results to the previous standard. The library can act as a drop-in replacement for the "encodings.idna" module.

```

import io, sys
from setuptools import setup

def main():

    python_version = sys.version_info[:2]
    if python_version < (2,7):
        raise SystemExit("Sorry, Python 2.7 or newer required")

    package_data = {}
    exec(open('idna/package_data.py').read(), package_data)

    arguments = {
        'name': 'idna',
        'packages': ['idna'],
        'version': package_data['__version__'],
        'description': 'Internationalized Domain Names in Applications (IDNA)',
        'long_description': io.open("README.rst", encoding="UTF-8").read(),
        'author': 'Kim Davies',
        'author_email': 'kim@cynosure.com.au',
        'license': 'BSD-like',
        'url': 'https://github.com/kjd/idna',
        'classifiers': [
            'Development Status :: 5 - Production/Stable',
            'Intended Audience :: Developers',
            'Intended Audience :: System Administrators',
            'License :: OSI Approved :: BSD License',
            'Operating System :: OS Independent',
            'Programming Language :: Python',
            'Programming Language :: Python :: 2',
            'Programming Language :: Python :: 2.7',
            'Programming Language :: Python :: 3',
            'Programming Language :: Python :: 3.4',
            'Programming Language :: Python :: 3.5',
            'Programming Language :: Python :: 3.6',
            'Topic :: Internet :: Name Service (DNS)',
            'Topic :: Software Development :: Libraries :: Python Modules',
            'Topic :: Utilities',
        ],
        'python_requires': '>=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*',
        'test_suite': 'tests',
    }

    setup(**arguments)

if __name__ == '__main__':

```

main()

Found in path(s):

* /opt/cola/permits/1110810307_1606855956.29/0/kjd-idna-v2-8-0-g1cdf175-1-tar-gz/kjd-idna-375dc46/setup.py

1.283 bzip2 1.0.8 2

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1.284 json-c 0.13.1+dfsg-7ubuntu0.3

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1.285 d-bus 1.12.16-2ubuntu2.1

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1.287 shadow 4.8.1-1ubuntu5

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100dpi-lutRS08-IL2.bdf 100dpi-lutRS14-IL2.bdf 100dpi-lutRS14.bdf
100dpi-lutRS19-IL2.bdf 75dpi-lutBS12.bdf 75dpi-lutBS12c.bdf
75dpi-lutBS12-IL2.bdf 75dpi-lutBS14.bdf 75dpi-lutBS14c.bdf
75dpi-lutBS14-IL2.bdf 75dpi-lutRS12.bdf 75dpi-lutRS12c.bdf
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1.289 libtest-json-perl 0.11-2

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name: Test-JSON

version: 0.11

author:

- 'Curtis "Ovid" Poe <ovid@cpan.org>'

abstract: Test JSON data

license: perl

resources:
license: ~
requires:
JSON::Any: 1.2
Test::Differences: 0.47
Test::Simple: 0.62
Test::Tester: 0.107
provides:
Test::JSON:
file: lib/Test/JSON.pm
version: 0.11
generated_by: Module::Build version 0.32
meta-spec:
url: <http://module-build.sourceforge.net/META-spec-v1.2.html>
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=head1 AUTHOR

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Please report any bugs or feature requests to
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L<<http://rt.cpan.org/NoAuth/ReportBug.html?Queue=Test-JSON>>.
I will be notified, and then you'll automatically be notified of progress on
your bug as I make changes.

=head1 SEE ALSO

This test module uses L<JSON::Any> and L<Test::Differences>.

=head1 ACKNOWLEDGEMENTS

The development of this module was sponsored by Kineticode,
L<<http://www.kineticode.com/>>, the leading provider of services for the
Bricolage content management system, L<<http://www.bricolage.cc/>>.

Thanks to Makamaka Hannyaharamitu C<makamaka@cpan.org> for a patch to make
this work with JSON 2.0.

Thanks to Stevan Little for suggesting a switch to L<JSON::Any>. This makes
it easier for this module to work with whatever JSON module you have
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Test-JSON

This module allows for easy testing of JSON data.

INSTALLATION

To install this module, run the following commands:

```
perl Build.PL
./Build
./Build test
./Build install
```

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1.290 dhcp 4.4.1-2.1ubuntu5

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- * `configure.ac`, `Makefile.am`: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

```
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
```

```
<!--
```

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```

```
-->
```

```
<!-- $Id$ -->
```

```
<!-- Generate ISC copyright comments from Docbook copyright metadata. -->
```

```
<xsl:stylesheet version="1.0"
```

```
xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
```

```
xmlns:xi="http://www.w3.org/2001/XInclude"
```

```
xmlns:db="http://docbook.org/ns/docbook">
```

```
<xsl:template name="isc.copyright.format">
```

```
<xsl:param name="text"/>
```

```
<xsl:value-of select="$isc.copyright.leader"/>
```

```
<xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
```

```
<xsl:text>&#10;</xsl:text>
```

```
<xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
```

```

<xsl:if test="translate($rest, '&#9;&#32;', ')">
  <xsl:call-template name="isc.copyright.format">
    <xsl:with-param name="text" select="$rest"/>
  </xsl:call-template>
</xsl:if>
</xsl:template>

<xsl:variable name="isc.copyright.text">
  <xsl:text>
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  </xsl:text>
</xsl:variable>

<xsl:variable name="isc.copyright">
  <xsl:call-template name="isc.copyright.format">
    <xsl:with-param name="text">
      <xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">
        <xsl:text>Copyright (C) </xsl:text>
        <xsl:call-template name="copyright.years">
          <xsl:with-param name="years" select="year"/>
        </xsl:call-template>
        <xsl:text> </xsl:text>
        <xsl:value-of select="holder"/>
        <xsl:value-of select="$isc.copyright.breakline"/>
        <xsl:text>&#10;</xsl:text>
      </xsl:for-each>
      <xsl:value-of select="$isc.copyright.text"/>
    </xsl:with-param>
  </xsl:call-template>
</xsl:variable>
</xsl:stylesheet>

```

<!--

- Local variables:

- mode: sgml

- End:

-->

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```
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```

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```
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```

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<signature of Ty Coon>, 1 April 1989

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1.292 sqlite 3.31.1-4ubuntu0.2

1.292.1 Available under license :

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1.293 sosreport 3.9.1-1ubuntu0.20.04.2

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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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1.294 libsemanage 3.0 1build2

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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1.295 jsonpatch 1.22

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1.296 arping 2.20-1

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1.297 libcrypt-ssleay-perl 0.73.06-1build3

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1.298 libtasn 4.16.0 2

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Version 3, 29 June 2007

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1.301 libwww-robotrules-perl 6.02-1

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```
# Bender: "Well, I don't have anything else  
#     planned for today. Let's get drunk!"
```

```
=head1 NAME
```

```
WWW::RobotRules - database of robots.txt-derived permissions
```

```
=head1 SYNOPSIS
```

```
use WWW::RobotRules;  
my $rules = WWW::RobotRules->new('MOMspider/1.0');
```

```
use LWP::Simple qw(get);
```

```
{  
    my $url = "http://some.place/robots.txt";  
    my $robots_txt = get $url;  
    $rules->parse($url, $robots_txt) if defined $robots_txt;  
}
```

```
{
```

```

my $url = "http://some.other.place/robots.txt";
my $robots_txt = get $url;
$rules->parse($url, $robots_txt) if defined $robots_txt;
}

```

```

# Now we can check if a URL is valid for those servers
# whose "robots.txt" files we've gotten and parsed:
if($rules->allowed($url)) {
    $c = get $url;
    ...
}

```

=head1 DESCRIPTION

This module parses F</robots.txt> files as specified in "A Standard for Robot Exclusion", at <<http://www.robotstxt.org/wc/norobots.html>> Webmasters can use the F</robots.txt> file to forbid conforming robots from accessing parts of their web site.

The parsed files are kept in a WWW::RobotRules object, and this object provides methods to check if access to a given URL is prohibited. The same WWW::RobotRules object can be used for one or more parsed F</robots.txt> files on any number of hosts.

The following methods are provided:

=over 4

=item \$rules = WWW::RobotRules->new(\$robot_name)

This is the constructor for WWW::RobotRules objects. The first argument given to new() is the name of the robot.

=item \$rules->parse(\$robot_txt_url, \$content, \$fresh_until)

The parse() method takes as arguments the URL that was used to retrieve the F</robots.txt> file, and the contents of the file.

=item \$rules->allowed(\$uri)

Returns TRUE if this robot is allowed to retrieve this URL.

=item \$rules->agent([\$name])

Get/set the agent name. NOTE: Changing the agent name will clear the robots.txt rules and expire times out of the cache.

=back

=head1 ROBOTS.TXT

The format and semantics of the "/robots.txt" file are as follows (this is an edited abstract of <<http://www.robotstxt.org/wc/norobots.html>>):

The file consists of one or more records separated by one or more blank lines. Each record contains lines of the form

<field-name>: <value>

The field name is case insensitive. Text after the '#' character on a line is ignored during parsing. This is used for comments. The following <field-names> can be used:

=over 3

=item User-Agent

The value of this field is the name of the robot the record is describing access policy for. If more than one I<User-Agent> field is present the record describes an identical access policy for more than one robot. At least one field needs to be present per record. If the value is '*', the record describes the default access policy for any robot that has not matched any of the other records.

The I<User-Agent> fields must occur before the I<Disallow> fields. If a record contains a I<User-Agent> field after a I<Disallow> field, that constitutes a malformed record. This parser will assume that a blank line should have been placed before that I<User-Agent> field, and will break the record into two. All the fields before the I<User-Agent> field will constitute a record, and the I<User-Agent> field will be the first field in a new record.

=item Disallow

The value of this field specifies a partial URL that is not to be visited. This can be a full path, or a partial path; any URL that starts with this value will not be retrieved

=back

Unrecognized records are ignored.

=head1 ROBOTS.TXT EXAMPLES

The following example "/robots.txt" file specifies that no robots should visit any URL starting with "/cyberworld/map/" or "/tmp/":

```
User-agent: *
Disallow: /cyberworld/map/ # This is an infinite virtual URL space
Disallow: /tmp/ # these will soon disappear
```

This example "/robots.txt" file specifies that no robots should visit any URL starting with "/cyberworld/map/", except the robot called "cybermapper":

```
User-agent: *
Disallow: /cyberworld/map/ # This is an infinite virtual URL space

# Cybermapper knows where to go.
User-agent: cybermapper
Disallow:
```

This example indicates that no robots should visit this site further:

```
# go away
User-agent: *
Disallow: /
```

This is an example of a malformed robots.txt file.

```
# robots.txt for ancientcastle.example.com
# I've locked myself away.
User-agent: *
Disallow: /
# The castle is your home now, so you can go anywhere you like.
User-agent: Belle
Disallow: /west-wing/ # except the west wing!
# It's good to be the Prince...
User-agent: Beast
Disallow:
```

This file is missing the required blank lines between records. However, the intention is clear.

```
=head1 SEE ALSO
```

```
L<LWP::RobotUA>, L<WWW::RobotRules::AnyDBM_File>
```

```
=head1 COPYRIGHT
```

```
Copyright 1995-2009, Gisle Aas
Copyright 1995, Martijn Koster
```

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Found in path(s):

```
* /opt/cola/permits/1141297419_1614968609.26/0/libwww-robotrules-perl-6-02-orig-1-tar-gz/WWW-RobotRules-6.02/lib/WWW/RobotRules.pm
```

No license file was found, but licenses were detected in source scan.

license: perl

Found in path(s):

```
* /opt/cola/permits/1141297419_1614968609.26/0/libwww-robotrules-perl-6-02-orig-1-tar-gz/WWW-RobotRules-6.02/META.yml
```

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NAME

WWW::RobotRules - database of robots.txt-derived permissions

SYNOPSIS

```
use WWW::RobotRules;
my $rules = WWW::RobotRules->new('MOMspider/1.0');

use LWP::Simple qw(get);

{
    my $url = "http://some.place/robots.txt";
    my $robots_txt = get $url;
    $rules->parse($url, $robots_txt) if defined $robots_txt;
}

{
    my $url = "http://some.other.place/robots.txt";
    my $robots_txt = get $url;
    $rules->parse($url, $robots_txt) if defined $robots_txt;
}

# Now we can check if a URL is valid for those servers
# whose "robots.txt" files we've gotten and parsed:
if($rules->allowed($url)) {
    $c = get $url;
    ...
}
```

DESCRIPTION

This module parses /robots.txt files as specified in "A Standard for Robot Exclusion", at <http://www.robotstxt.org/wc/norobots.html> Webmasters can use the /robots.txt file to forbid conforming robots from

accessing parts of their web site.

The parsed files are kept in a WWW::RobotRules object, and this object provides methods to check if access to a given URL is prohibited. The same WWW::RobotRules object can be used for one or more parsed /robots.txt files on any number of hosts.

The following methods are provided:

`$rules = WWW::RobotRules->new($robot_name)`

This is the constructor for WWW::RobotRules objects. The first argument given to new() is the name of the robot.

`$rules->parse($robot_txt_url, $content, $fresh_until)`

The parse() method takes as arguments the URL that was used to retrieve the /robots.txt file, and the contents of the file.

`$rules->allowed($uri)`

Returns TRUE if this robot is allowed to retrieve this URL.

`$rules->agent([$name])`

Get/set the agent name. NOTE: Changing the agent name will clear the robots.txt rules and expire times out of the cache.

ROBOTS.TXT

The format and semantics of the "/robots.txt" file are as follows (this is an edited abstract of <<http://www.robotstxt.org/wc/norobots.html>>):

The file consists of one or more records separated by one or more blank lines. Each record contains lines of the form

<field-name>: <value>

The field name is case insensitive. Text after the '#' character on a line is ignored during parsing. This is used for comments. The following <field-names> can be used:

User-Agent

The value of this field is the name of the robot the record is describing access policy for. If more than one *User-Agent* field is present the record describes an identical access policy for more than one robot. At least one field needs to be present per record. If the value is '*', the record describes the default access policy for any robot that has not not matched any of the other records.

The *User-Agent* fields must occur before the *Disallow* fields. If a record contains a *User-Agent* field after a *Disallow* field, that constitutes a malformed record. This parser will assume that a blank

line should have been placed before that *User-Agent* field, and will break the record into two. All the fields before the *User-Agent* field will constitute a record, and the *User-Agent* field will be the first field in a new record.

Disallow

The value of this field specifies a partial URL that is not to be visited. This can be a full path, or a partial path; any URL that starts with this value will not be retrieved

Unrecognized records are ignored.

ROBOTS.TXT EXAMPLES

The following example "/robots.txt" file specifies that no robots should visit any URL starting with "/cyberworld/map/" or "/tmp/":

```
User-agent: *
Disallow: /cyberworld/map/ # This is an infinite virtual URL space
Disallow: /tmp/ # these will soon disappear
```

This example "/robots.txt" file specifies that no robots should visit any URL starting with "/cyberworld/map/", except the robot called "cybermapper":

```
User-agent: *
Disallow: /cyberworld/map/ # This is an infinite virtual URL space

# Cybermapper knows where to go.
User-agent: cybermapper
Disallow:
```

This example indicates that no robots should visit this site further:

```
# go away
User-agent: *
Disallow: /
```

This is an example of a malformed robots.txt file.

```
# robots.txt for ancientcastle.example.com
# I've locked myself away.
User-agent: *
Disallow: /
# The castle is your home now, so you can go anywhere you like.
User-agent: Belle
Disallow: /west-wing/ # except the west wing!
# It's good to be the Prince...
User-agent: Beast
```

Disallow:

This file is missing the required blank lines between records. However, the intention is clear.

SEE ALSO

LWP::RobotUA, WWW::RobotRules::AnyDBM_File

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1.302 libdata-dump-perl 1.23-1

1.302.1 Available under license :

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abstract: 'Pretty printing of data structures'

author:

- 'Gisle Aas <gisle@activestate.com>'

build_requires:

Test: '0'

configure_requires:

ExtUtils::MakeMaker: '0'

dynamic_config: 1

generated_by: 'ExtUtils::MakeMaker version 7.0401, CPAN::Meta::Converter version 2.150001'

license: perl

meta-spec:

url: <http://module-build.sourceforge.net/META-spec-v1.4.html>

version: '1.4'

name: Data-Dump

no_index:

directory:

- t

- inc

recommends:

MIME::Base64: '0'

requires:

Symbol: '0'

perl: '5.006'
resources:
repository: <http://github.com/gisle/data-dump>
version: '1.23'

Found in path(s):

* /opt/cola/permits/1144895079_1616101129.69/0/libdata-dump-perl-1-23-orig-1-tar-gz/Data-Dump-1.23/META.yml

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NAME

Data::Dump - Pretty printing of data structures

SYNOPSIS

```
use Data::Dump qw(dump ddx);
```

```
$str = dump(@list);  
@copy_of_list = eval $str;
```

```
# or use it for easy debug printout  
ddx localtime;
```

DESCRIPTION

This module provide functions that takes a list of values as their argument and produces a string as its result. The string contains Perl code that, when "eval"ed, produces a deep copy of the original arguments.

The main feature of the module is that it strives to produce output that is easy to read. Example:

```
@a = (1, [2, 3], {4 => 5});  
dump(@a);
```

Produces:

```
(1, [2, 3], { 4 => 5 })
```

If you dump just a little data, it is output on a single line. If you dump data that is more complex or there is a lot of it, line breaks are automatically added to keep it easy to read.

AUTHORS

The "Data::Dump" module is written by Gisle Aas <gisle@aes.no>, based on "Data::Dumper" by Gurusamy Sarathy <gsar@umich.edu>.

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Found in path(s):

```
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```

No license file was found, but licenses were detected in source scan.

=head1 NAME

Data::Dump - Pretty printing of data structures

=head1 SYNOPSIS

```
use Data::Dump qw(dump);
```

```
$str = dump(@list);
```

```
@copy_of_list = eval $str;
```

```
# or use it for easy debug printout
```

```
use Data::Dump; dd localtime;
```

=head1 DESCRIPTION

This module provide a few functions that traverse their argument and produces a string as its result. The string contains Perl code that, when C<eval>ed, produces a deep copy of the original arguments.

The main feature of the module is that it strives to produce output that is easy to read. Example:

```
@a = (1, [2, 3], {4 => 5});  
dump(@a);
```

Produces:

```
"(1, [2, 3], { 4 => 5 })"
```

If you dump just a little data, it is output on a single line. If you dump data that is more complex or there is a lot of it, line breaks are automatically added to keep it easy to read.

The following functions are provided (only the dd* functions are exported by default):

=over

=item dump(...)

=item pp(...)

Returns a string containing a Perl expression. If you pass this string to Perl's built-in eval() function it should return a copy of the arguments you passed to dump().

If you call the function with multiple arguments then the output will be wrapped in parenthesis "(..., ...)". If you call the function with a single argument the output will not have the wrapping. If you call the function with a single scalar (non-reference) argument it will just return the scalar quoted if needed, but never break it into multiple lines. If you pass multiple arguments or references to arrays of hashes then the return value might contain line breaks to format it for easier reading. The returned string will never be "\n" terminated, even if contains multiple lines. This allows code like this to place the semicolon in the expected place:

```
print '$obj = ', dump($obj), ";\n";
```

If dump() is called in void context, then the dump is printed on STDERR and then "\n" terminated. You might find this useful for quick debug printouts, but the dd*() functions might be better alternatives for this.

There is no difference between dump() and pp(), except that dump() shares its name with a not-so-useful perl builtin. Because of this some might want to avoid using that name.

=item quote(\$string)

Returns a quoted version of the provided string.

It differs from C<dump(\$string)> in that it will quote even numbers and not try to come up with clever expressions that might shorten the output. If a non-scalar argument is provided then it's just stringified instead of traversed.

=item dd(...)

=item ddx(...)

These functions will call dump() on their argument and print the result to STDOUT (actually, it's the currently selected output handle, but STDOUT is the default for that).

The difference between them is only that ddx() will prefix the lines

it prints with "# " and mark the first line with the file and line number where it was called. This is meant to be useful for debug printouts of state within programs.

```
=item dumpf( ..., \&filter )
```

Short hand for calling the `dump_filtered()` function of `L<Data::Dump::Filtered>`. This works like `dump()`, but the last argument should be a filter callback function. As objects are visited the filter callback is invoked and it can modify how the objects are dumped.

```
=back
```

```
=head1 CONFIGURATION
```

There are a few global variables that can be set to modify the output generated by the dump functions. It's wise to localize the setting of these.

```
=over
```

```
=item $Data::Dump::INDENT
```

This holds the string that's used for indenting multiline data structures. It's default value is " " (two spaces). Set it to "" to suppress indentation. Setting it to "|" makes for nice visuals even if the dump output then fails to be valid Perl.

```
=item $Data::Dump::TRY_BASE64
```

How long must a binary string be before we try to use the base64 encoding for the dump output. The default is 50. Set it to 0 to disable base64 dumps.

```
=back
```

```
=head1 LIMITATIONS
```

Code references will be dumped as `C<< sub { ... } >>`. Thus, `C<eval>`ing them will not reproduce the original routine. The `C<...>`-operator used will also require perl-5.12 or better to be eeval.

If you forget to explicitly import the `C<dump>` function, your code will core dump. That's because you just called the builtin `C<dump>` function by accident, which intentionally dumps core. Because of this you can also import the same function as `C<pp>`, mnemonic for "pretty-print".

```
=head1 HISTORY
```

The `C<Data::Dump>` module grew out of frustration with Sarathy's in-most-cases-excellent `C<Data::Dumper>`. Basic ideas and some code are shared with Sarathy's module.

The `C<Data::Dump>` module provides a much simpler interface than `C<Data::Dumper>`. No OO interface is available and there are fewer configuration options to worry about. The other benefit is that the dump produced does not try to set any variables. It only returns what is needed to produce a copy of the arguments. This means that `C<dump("foo")>` simply returns `C<"foo">`, and `C<dump(1..3)>` simply returns `C<'(1, 2, 3)'>`.

=head1 SEE ALSO

`L<Data::Dump::Filtered>`, `L<Data::Dump::Trace>`, `L<Data::Dumper>`, `L<JSON>`, `L<Storable>`

=head1 AUTHORS

The `C<Data::Dump>` module is written by Gisle Aas <gisle@aas.no>, based on `C<Data::Dumper>` by Gurusamy Sarathy <gsar@umich.edu>.

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=cut

Found in path(s):

```
* /opt/cola/permits/1144895079_1616101129.69/0/libdata-dump-perl-1-23-orig-1-tar-gz/Data-Dump-1.23/lib/Data/Dump.pm
```

No license file was found, but licenses were detected in source scan.

=head1 NAME

`Data::Dump::Trace` - Helpers to trace function and method calls

=head1 SYNOPSIS

```
use Data::Dump::Trace qw(autowrap mcall);

autowrap("LWP::UserAgent" => "ua", "HTTP::Response" => "res");

use LWP::UserAgent;
$ua = mcall(LWP::UserAgent => "new"); # instead of LWP::UserAgent->new;
```

```
$ua->get("http://www.example.com")->dump;
```

```
=head1 DESCRIPTION
```

The following functions are provided:

```
=over
```

```
=item autowrap( $class )
```

```
=item autowrap( $class => $prefix )
```

```
=item autowrap( $class1 => $prefix1, $class2 => $prefix2, ... )
```

```
=item autowrap( $class1 => \%info1, $class2 => \%info2, ... )
```

Register classes whose objects are automatically wrapped when returned by one of the call functions below. If `$prefix` is provided it will be used as to name the objects.

Alternative is to pass an `%info` hash for each class. The recognized keys are:

```
=over
```

```
=item prefix => $string
```

The prefix string used to name objects of this type.

```
=item proto => \%hash
```

A hash of prototypes to use for the methods when an object is wrapped.

```
=back
```

```
=item wrap( name => $str, func => \&func, proto => $proto )
```

```
=item wrap( name => $str, obj => $obj, proto => \%hash )
```

Returns a wrapped function or object. When a wrapped function is invoked then a trace is printed after the underlying function has returned. When a method on a wrapped object is invoked then a trace is printed after the methods on the underlying objects has returned.

See [L<"/Prototypes">](#) for description of the `C<proto>` argument.

```
=item call( $name, \&func, $proto, @ARGS )
```

Calls the given function with the given arguments. The trace will use

\$name as the name of the function.

See L</"Prototypes"> for description of the \$proto argument.

=item mcall(\$class, \$method, \$proto, @ARGS)

=item mcall(\$object, \$method, \$proto, @ARGS)

Calls the given method with the given arguments.

See L</"Prototypes"> for description of the \$proto argument.

=item trace(\$symbol, \$prototype)

Replaces the function given by \$symbol with a wrapped function.

=back

=head2 Prototypes

B<Note: The prototype string syntax described here is experimental and likely to change in revisions of this interface>.

The \$proto argument to call() and mcall() can optionally provide a prototype for the function call. This give the tracer hints about how to best format the argument lists and if there are I<in/out> or I<out> arguments. The general form for the prototype string is:

<arguments> = <return_value>

The default prototype is "@ = @"; list of values as input and list of values as output.

The value '%' can be used for both arguments and return value to say that key/value pair style lists are used.

Alternatively, individual positional arguments can be listed each represented by a letter:

=over

=item C<i>

input argument

=item C<o>

output argument

=item C<O>

both input and output argument

=back

If the return value prototype has C<!> appended, then it signals that this function sets errno (\$!) when it returns a false value. The trace will display the current value of errno in that case.

If the return value prototype looks like a variable name (with C<\$> prefix), and the function returns a blessed object, then the variable name will be used as prefix and the returned object automatically traced.

=head1 SEE ALSO

L<Data::Dump>

=head1 AUTHOR

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=cut

Found in path(s):

* /opt/cola/permits/1144895079_1616101129.69/0/libdata-dump-perl-1-23-orig-1-tar-gz/Data-Dump-1.23/lib/Data/Dump/Trace.pm

1.303 json-c 0.99.8-2

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1.304 file 5.38-4

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1.305 mpdecimal 2.4.2-3

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1.306 kbd 2.0.4-4ubuntu2

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```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) 19yy <name of author>
```

```
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the Free Software Foundation; either version 1, or (at your option)  
any later version.
```

```
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along with this program; if not, write to the Free Software  
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```
Gnomovision version 69, Copyright (C) 19xx name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the
program `Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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\* `configure.ac`, `Makefile.am`: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

\* `atf-c/ui.c`: The `format_paragraph` and `format_text` functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

\* `atf-c++/detail/io.hpp`, `atf-c++/detail/io.cpp`, `atf-c++/detail/io_test.cpp`: These files were derived from the `file_handle`, `systembuf`, `pipe` and `pistream` classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

\* `admin/check-style.sh`, `admin/check-style-common.awk`, `admin/check-style-cpp.awk`, `admin/check-style-shell.awk`: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

=====  
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2

<!--

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-->

```
<!-- $Id$ -->
```

```
<!-- Generate ISC copyright comments from Docbook copyright metadata. -->
```

```
<xsl:stylesheet version="1.0"
```

```
  xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
```

```
  xmlns:xi="http://www.w3.org/2001/XInclude"
```

```
  xmlns:db="http://docbook.org/ns/docbook">
```

```
<xsl:template name="isc.copyright.format">
```

```
  <xsl:param name="text"/>
```

```
  <xsl:value-of select="$isc.copyright.leader"/>
```

```
  <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
```

```
  <xsl:text>&#10;</xsl:text>
```

```
  <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
```

```
  <xsl:if test="translate($rest, '&#9;&#32;', '')">
```

```
    <xsl:call-template name="isc.copyright.format">
```

```
      <xsl:with-param name="text" select="$rest"/>
```

```
    </xsl:call-template>
```

```
  </xsl:if>
```

```
</xsl:template>
```

```
<xsl:variable name="isc.copyright.text">
```

```
  <xsl:text>
```

```
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```

```
  </xsl:text>
```

```
</xsl:variable>
```

```
<xsl:variable name="isc.copyright">
```

```
  <xsl:call-template name="isc.copyright.format">
```

```
    <xsl:with-param name="text">
```

```
      <xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">
```

```
        <xsl:text>Copyright (C) </xsl:text>
```

```
        <xsl:call-template name="copyright.years">
```

```
          <xsl:with-param name="years" select="year"/>
```

```
        </xsl:call-template>
```

```
        <xsl:text> </xsl:text>
```

```
        <xsl:value-of select="holder"/>
```

```
          <xsl:value-of select="$isc.copyright.breakline"/>
```

```
        <xsl:text>&#10;</xsl:text>
```

```
      </xsl:for-each>
```

```
    <xsl:value-of select="$isc.copyright.text"/>
```

```
  </xsl:with-param>
```

```
  </xsl:call-template>
```

```
</xsl:variable>
```



</xsl:stylesheet>

<!--

- Local variables:

- mode: sgml

- End:

-->

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## 1.313 libxml 2.9.10+dfsg-5ubuntu0.20.04.1

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```
#####
```

```
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=head1 SEE ALSO

L<Net::DNS>, L<Net::DNS::SEC>,  
RFC8017, RFC3110,  
L<OpenSSL|<http://www.openssl.org/docs>>

=cut

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=head1 NAME

key2ds - Utility to create DS records from DNSKEY RRs read from stdin.

=head1 SYNOPSIS

```
key2ds <keys.txt >ds.txt
```

=head1 DESCRIPTION

C<key2ds> reads the key data from STDIN and prints the corresponding DS record on STDOUT.

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=head1 METHODS

=head2 new

```
require Net::DNS::SEC::Digest;  
$object = new Net::DNS::SEC::Digest::SHA( $algorithm );
```

Creates and initialises a new digest object instance for the specified algorithm.

=head2 add

```
$object->add($text);  
$object->add($more);
```

Append specified text to digest stream.

=head2 digest

```
$digest = $object->digest;
```

Returns the digest encoded as a binary string.

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=head1 SEE ALSO

L<Net::DNS>, L<Net::DNS::SEC>,  
L<OpenSSL|http://www.openssl.org/docs>

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Net::DNS::SEC - DNSSEC extensions to Net::DNS

=====

## 1. DESCRIPTION

-----

This module is designed as an extension the Net::DNS package (<https://metacpan.org/release/Net-DNS>).

The module implements the cryptographic signature generation and verification functions that are relevant for DNSSEC operations.

\*\*

\*\* \*\*\*\*\*

\*\* \*\* WARNING \*\*

\*\* \*\*\*\*\*

\*\* THE USE AND/OR HANDLING OF STRONG ENCRYPTION TECHNOLOGIES IS

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\*\* IN YOUR COUNTRY BEFORE ATTEMPTING TO INSTALL THIS MODULE OR  
\*\* ANY OF THE PREREQUISITE CRYPTOGRAPHY PACKAGES.  
\*\*

Net::DNS::SEC also provides a class for handling keysets.  
Keysets are administrative files used by the BIND tools for key  
maintenance tasks. Net::DNS::SEC::Keyset provides an abstract  
interface for doing fun things with them.

See also the 'pod' documentation in:

Net::DNS::RR::DNSKEY

Net::DNS::RR::DS

Net::DNS::RR::NSEC

Net::DNS::RR::NSEC3

Net::DNS::RR::RRSIG

Net::DNS::SEC::Private

and for the use of SIG0 see:

Net::DNS::Packet (sign\_sig0)

Net::DNS::RR::SIG

## 2. AVAILABILITY

-----

You can get the latest version of Net::DNS::SEC from the  
Comprehensive Perl Archive Network (CPAN):

<https://metacpan.org/release/Net-DNS-SEC>

or through

<http://www.net-dns.org/>

Additionally a subversion repository is made available through

<http://www.net-dns.org/svn/net-dns-sec/>

The version on the "trunk" (<http://www.net-dns.org/svn/net-dns-sec/trunk>)  
is the version that is targeted for next release.

Please note that the SVN version at any given moment may be broken.

## 3. PREREQUISITES

-----



This package relies on Net-DNS version 1.01 or later which has features specifically designed to support Net::DNS::SEC.

The availability of prerequisites for Net::DNS::SEC is tested at installation time. These are the packages that need to be available:

```
File::Find
File::Spec
MIME::Base64
Test::More
```

The cryptographic heavy lifting is performed using the OpenSSL libcrypto library distributed under separate license.

You will also require a C compiler.

#### 4. INSTALLATION

-----

Please install any modules mentioned in the PREREQUISITES section above. When you run "perl Makefile.PL", Perl should complain if any of the required modules is missing.

To build this module, run the following commands:

```
tar xvzf Net-DNS-SEC-1.?.tar.gz
cd Net-DNS-SEC-1.?.
perl Makefile.PL
make
make test
make install
```

'make test' will do some tests that should all succeed once all dependencies are satisfied. Please report any failure during the test phase.

Alternatively, install the package using CPAN:

```
perl -MCPAN -e shell;
cpan> install Net::DNS::SEC
```

To build the libcrypto.so library, run the following:

```
tar xvzf openssl-1.1.*.tar.gz
cd openssl-1.1.*
./config shared
```

make # require only libcrypto.so.1.1 and include/openssl/\*.h

## 5. MAINTENANCE

-----

Please use the CPAN request tracker to report bugs in the extensions. The request tracker is available through:

<https://rt.cpan.org/NoAuth/ReportBug.html?Queue=Net-DNS-SEC>

## 6. STAYING UP TO DATE

-----

Announcements about Net::DNS::SEC will be published on <http://www.net-dns.org/blog/>. An RSS feed is available.

## 7. DEMOS

-----

demo/getkeyset.pl A small demonstration program that will fetch the keyset for a specified domain, store the keys and print DS RRs to STDOUT.

demo/key2ds Reads the key data from STDIN and prints the corresponding DS record on STDOUT.  
Contributed by Miek Gieben

demo/make-signed-keyset Creates a self-signed keyset from a BIND public key specified on the command line.  
Contributed by Wes Griffin

## 8. ACKNOWLEDGEMENTS

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-----

\$Id: README 1677 2018-05-22 11:59:10Z willem \$

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=head1 NAME

getkeyset.pl - DS extraction demo

=head1 SYNOPSIS

getkeyset.pl <domain> [auth\_nameserver]

=head1 DESCRIPTION

The program queries for the key-set of 'domain'. Spits out the DS records and writes the keyset to the current directory.

If the second argument is specified the query is performed to that nameserver.

=head1 TODO

This is only a demonstration program to show how the interface can be used.

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=head1 SEE ALSO

L<Net::DNS>, L<Net::DNS::SEC>, L<Digest::GOST>,  
RFC4357, RFC4490, RFC5832, RFC5933, RFC7091

=cut

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=head1 METHODS

=head2 new (from private keyfile)

```
$keypath = '/home/foo/Kexample.com.+013+26512.private';  
$private = new Net::DNS::SEC::Private( $keypath );
```

The argument is the full path to a private key file generated by the BIND dnssec-keygen tool. Note that the filename contains information about the algorithm and keytag.

=head2 new (from private key parameters)

```
$private = new Net::DNS::SEC::Private(  
'algorithm' => '13',  
'keytag'    => '26512',  
'privatekey' => 'h/mc+iq9VDUbnAjQgi8S8JzlEX29IALchwJmNM3QYKk=',  
'signame'   => 'example.com.'  
);
```

The arguments define the private key parameters as (name,value) pairs. The name and data representation are identical to that used in a BIND private keyfile.

=head2 private\_key\_format

```
$format = $private->private_key_format;
```

Returns a string which identifies the format of the private key file.

=head2 algorithm, keytag, signame

```
$algorithm = $private->algorithm;  
$keytag    = $private->keytag;  
$signame   = $private->signame;
```

Returns the corresponding attribute determined from the filename.

=head2 Private key attributes

```
$attribute = $private->attribute;
```

Returns the value as it appears in the private key file. The attribute names correspond to the tag in the key file, modified to form an acceptable Perl subroutine name.

=head2 created, publish, activate

```
$created = $private->created;  
$publish = $private->publish;  
$activate = $private->activate;
```

Returns a string which represents a date in the form 20141212123456. Returns undefined value for key formats older than v1.3.

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## =head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::SEC>,  
L<Net::DNS::RR::DNSKEY>, L<Net::DNS::RR::RRSIG>

=cut

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L<Net::DNS>, L<Net::DNS::SEC>,  
RFC6090, RFC6605,  
L<OpenSSL|http://www.openssl.org/docs>

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---

abstract: 'DNSSEC extensions to Net::DNS'

author:

- 'Dick Franks'
- 'Olaf Kolkman'

build\_requires:

ExtUtils::MakeMaker: '0'

configure\_requires:

ExtUtils::MakeMaker: '0'

dynamic\_config: 1

generated\_by: 'ExtUtils::MakeMaker version 7.34, CPAN::Meta::Converter version 2.150010'

license: mit

meta-spec:

url: <http://module-build.sourceforge.net/META-spec-v1.4.html>

version: '1.4'

name: Net-DNS-SEC

no\_index:

directory:

- t
- inc

recommends: { }

requires:

DynaLoader: '1.04'

File::Find: '1.05'

File::Spec: '0.86'  
IO::File: '1.08'  
MIME::Base64: '2.13'  
Net::DNS: '1.08'  
Test::More: '0.47'  
perl: '5.006'  
version: '1.15'  
x\_serialization\_backend: 'CPAN::Meta::YAML version 0.018'

Found in path(s):

\* /opt/cola/permits/1146929098\_1616836858.24/0/libnet-dns-sec-perl-1-15-orig-tar-gz/Net-DNS-SEC-1.15/META.yml

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, RFC4033, RFC4034, RFC4035,  
L<OpenSSL|http://www.openssl.org/docs>

=cut

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\* /opt/cola/permits/1146929098\_1616836858.24/0/libnet-dns-sec-perl-1-15-orig-tar-gz/Net-DNS-SEC-1.15/lib/Net/DNS/SEC.pm

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package Net::DNS::SEC::libcrypto;

#

# \$Id: libcrypto.pod 1616 2018-01-22 08:54:52Z willem \$

#

=head1 NAME

Net::DNS::SEC::libcrypto - Perl interface to OpenSSL libcrypto

=head1 DESCRIPTION

Perl XS extension providing access to the OpenSSL libcrypto library upon which the Net::DNS::SEC cryptographic components are built.

=cut

1;

\_\_END\_\_

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L<Net::DNS>, L<Net::DNS::SEC>,  
L<OpenSSL|<http://www.openssl.org/docs>>

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\* /opt/cola/permits/1146929098\_1616836858.24/0/libnet-dns-sec-perl-1-15-orig-tar-gz/Net-DNS-SEC-1.15/lib/Net/DNS/SEC/libcrypto.pod

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RFC2536,  
L<OpenSSL|http://www.openssl.org/docs>

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\* /opt/cola/permits/1146929098\_1616836858.24/0/libnet-dns-sec-perl-1-15-orig-tar-gz/Net-DNS-SEC-1.15/lib/Net/DNS/SEC/DSA.pm

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RFC8032, RFC8080,  
L<OpenSSL|http://www.openssl.org/docs>

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Found in path(s):

\* /opt/cola/permits/1146929098\_1616836858.24/0/libnet-dns-sec-perl-1-15-orig-tar-gz/Net-DNS-SEC-1.15/lib/Net/DNS/SEC/EdDSA.pm

## 1.317 libnfnetlink 1.0.1-3build1

### 1.317.1 Available under license :

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```

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## 1.318 glibc 5.2

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@center Version 2.1, February 1999
```

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```

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## 1.319 cpp 10.3.0-1ubuntu1~20.04

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# 1.324 libsepol 3.0 1

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Upstream-Name: sound-theme-freedesktop

Upstream-Contact: Lennart Poettering <lennart@poettering.net>, William Jon McCann <jmccann@redhat.com>

Source: <https://people.freedesktop.org/~mccann/dist/>

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Source Files

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. The `grn' preprocessor, written by Barry Roitblat <barry@rentonww.com> and David Slattengren <slatteng@Xinet.COM>. These files have been part of the original Berkeley ditroff distribution, without AT&T code, and are in the public domain.

The original package can be found at  
<http://ftp.cs.wisc.edu/pub/misc/grn.tar.Z> .

```
src/preproc/grn/gprint.h
src/preproc/grn/hdb.cpp
src/preproc/grn/hgraph.cpp
src/preproc/grn/hpoint.cpp
src/preproc/grn/main.cpp
```

. The `gxditview' output device. It is based on X11's `xditview' program and thus has the X license.

```
src/devices/xditview/DESC.in
src/devices/xditview/Dvi.c
src/devices/xditview/Dvi.h
src/devices/xditview/DviP.h
src/devices/xditview/FontMap
src/devices/xditview/GXditview.ad
src/devices/xditview/Menu.h
src/devices/xditview/ad2c
src/devices/xditview/device.c
src/devices/xditview/device.h
src/devices/xditview/draw.c
src/devices/xditview/font.c
src/devices/xditview/gray1.bm
src/devices/xditview/gray2.bm
src/devices/xditview/gray3.bm
src/devices/xditview/gray4.bm
src/devices/xditview/gray5.bm
src/devices/xditview/gray6.bm
src/devices/xditview/gray7.bm
src/devices/xditview/gray8.bm
src/devices/xditview/gxditview.man
src/devices/xditview/lex.c
src/devices/xditview/page.c
src/devices/xditview/parse.c
src/devices/xditview/xdit.bm
src/devices/xditview/xdit_mask.bm
src/devices/xditview/xditview.c

src/include/DviChar.h
src/include/XFontName.h
```

src/libs/libxutil/DviChar.c  
src/libs/libxutil/XFontName.c

## Macro Packages

-----

. The -mdoc macro set, using the BSD license.

tmac/doc.tmac  
tmac/doc-old.tmac  
tmac/doc-common  
tmac/doc-ditroff  
tmac/doc-nroff  
tmac/doc-syms  
tmac/groff\_mdoc.man

. The -me macro set, using the BSD license.

tmac/e.tmac  
tmac/groff\_me.man  
doc/meintro.me  
doc/meintro\_fr.me  
doc/meref.me

## Hyphenation Patterns

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. The file `tmac/hyphen.us' is identical to the file `hyphen.tex', part of the TeX system written by Donald E. Knuth; the master file can be found at

<ftp://labrea.stanford.edu/pub/tex/dist/lib/hyphen.tex> .

It has been renamed for consistency, i.e., to make patterns available under the filenames `hyphen.<language>', e.g. `hyphen.de' or `hyphen.uk'.

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. The file `tmac/hyphen.fr' contains the same patterns as the file `frhyph.tex' (for TeX), which can be found at

<http://dante.ctan.org/CTAN/language/hyphenation/frhyph.tex> .

The patterns have been converted to a format groff can understand.

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. The file ``tmac/hyphen.sv'` is identical to the file ``svhyph.tex'`, which can be found at

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. The files ``tmac/hyphen.det'` and ``tmac/hyphen.den'` contain the same patterns as the files ``dehypht-x-2017-03-31.pat'` and ``dehyphn-x-2017-03-31.pat'` (for TeX), respectively, which can be found at

<http://ctan.org/tex-archive/language/hyphenation/dehyph-exptl>

The patterns have been converted to latin-1.

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. The file ``tmac/hyphen.cs'` contains the same patterns as the file ``czhyphen.tex'` (for TeX), which can be found in the archive

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## 1.334 python-retrying 1.3.3-4

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6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by

this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license



restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

^L

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b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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<one line to give the library's name and a brief idea of what it does.>

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You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990  
Ty Coon, President of Vice

That's all there is to it!

-----  
EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)  
-----

Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

[Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML

looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=  
r=20

GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists

=2Dmike

Re: [Cracklib-devel] cracklib license

From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18

I understand that, and you're welcome to bring it up with Alec directly  
and see if he wants to relicense his code as LGPL... but at this point,  
it was enough to just get it consistent and documented as to what it was  
released under. This wasn't actually a license change, just a  
clarification of the licensing that was already in place.=20

-- Nathan

=20

-----  
Nathan Neulinger EMail: nneul@um...

University of Missouri - Rolla Phone: (573) 341-6679

UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----

> From: cracklib-devel-bounces@li...

> [mailto:cracklib-devel-bounces@li...] On Behalf Of

> Mike Frysinger

> Sent: Monday, October 01, 2007 8:15 PM

> To: cracklib-devel@li...

> Subject: [Cracklib-devel] cracklib license

>=20

> looks like 2.8.11 is out and marked as "GPL-2" ... releasing

> libraries under

> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists

> -mike

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML

On Monday 01 October 2007, Neulinger, Nathan wrote:

> I understand that, and you're welcome to bring it up with Alec directly

> and see if he wants to relicense his code as LGPL... but at this point,

> it was enough to just get it consistent and documented as to what it was

> released under. This wasn't actually a license change, just a

> clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not=20  
GPL-2 ... it was a modified artistic license ... i didnt notice the license=  
=20  
change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=  
eir=20  
applications are also GPL-2 which imo is just wrong. it isnt the place of =  
a=20  
library to dictact to application writes what license they should be using.=  
=20  
thus LGPL-2.1 enters to fill this void.  
=2Dmike

Re: [Cracklib-devel] cracklib license

From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46

Seems like the ideal thing here would be for you and the other distro  
maintainers to get together with Alec in a conversation and come to a  
decision as to what licensing scheme y'all want. I haven't really done  
much other than cleaning up the packaging and patches and a small bit of  
additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan

=20

-----  
Nathan Neulinger EMail: nneul@um...

University of Missouri - Rolla Phone: (573) 341-6679

UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----

> From: cracklib-devel-bounces@li...

> [mailto:cracklib-devel-bounces@li...] On Behalf Of

> Mike Frysinger

> Sent: Monday, October 01, 2007 8:33 PM

> To: Neulinger, Nathan

> Cc: cracklib-devel@li...; Alec Muffett

> Subject: Re: [Cracklib-devel] cracklib license

>=20

> On Monday 01 October 2007, Neulinger, Nathan wrote:

>> I understand that, and you're welcome to bring it up with Alec

> directly

>> and see if he wants to relicense his code as LGPL... but at this

> point,

>> it was enough to just get it consistent and documented as to what

> it was

> > released under. This wasn't actually a license change, just a  
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>=20  
> the original license (before moving to sourceforge -- aka, 2.7) was  
> not  
> GPL-2 ... it was a modified artistic license ... i didnt notice the  
> license  
> change until it was mentioned in the latest notes.  
>=20  
> unlike the old license, GPL-2 prevents people from using cracklib  
> unless their  
> applications are also GPL-2 which imo is just wrong. it isnt the  
> place of a  
> library to dictact to application writes what license they should  
> be using.  
> thus LGPL-2.1 enters to fill this void.  
> -mike

Re: [Cracklib-devel] cracklib license

From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57

> Seems like the ideal thing here would be for you and the other distro  
> maintainers to get together with Alec in a conversation and come to a  
> decision as to what licensing scheme y'all want. I haven't really done  
> much other than cleaning up the packaging and patches and a small  
> bit of  
> additional code, so whatever licensing y'all come up with is fine  
> by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be  
linked with any code, not just GPL...

-a

Re: [Cracklib-devel] cracklib license

From: Devin Reade <gdr@gn...> - 2007-10-02 15:04

I would like to see it under LGPL as well. I think it is in everyone's  
best interests to have as secure systems as possible, and I think tainting  
it via GPL will just make it less likely that the library gets used, and  
will not usually cause companies/developers to GPL the dependent code  
(where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct  
license in this situation.

Devin

--

If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license

From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32

On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:

>> Seems like the ideal thing here would be for you and the other distro  
>> maintainers to get together with Alec in a conversation and come to a  
>> decision as to what licensing scheme y'all want. I haven't really done  
>> much other than cleaning up the packaging and patches and a small  
>> bit of  
>> additional code, so whatever licensing y'all come up with is fine  
>> by me.  
>  
> I am sympathetic. Guys, what do you reckon?  
>  
> What I am hearing so far is that LGPL makes sense, since it can be  
> linked with any code, not just GPL...

My apologies for not chiming in in anything resembling a reasonable timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately, GPLv2 with the option of using the library under a later version of the GPL would permit applications which were released under version 3 of the GPL to use the library, too, which would be sufficient for the packages which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML

On Monday 28 January 2008, Nalin Dahyabhai wrote:

> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:  
>>> Seems like the ideal thing here would be for you and the other distro  
>>> maintainers to get together with Alec in a conversation and come to a  
>>> decision as to what licensing scheme y'all want. I haven't really done  
>>> much other than cleaning up the packaging and patches and a small  
>>> bit of



>>> additional code, so whatever licensing y'all come up with is fine  
>>> by me.  
>>  
>> I am sympathetic. Guys, what do you reckon?  
>>  
>> What I am hearing so far is that LGPL makes sense, since it can be  
>> linked with any code, not just GPL...  
>  
> My apologies for not chiming in in anything resembling a reasonable  
> timeframe.  
>  
> I'd also suggest the LGPL, for the reason you noted above. Alternately,  
> GPLv2 with the option of using the library under a later version of the  
> GPL would permit applications which were released under version 3 of the  
> GPL to use the library, too, which would be sufficient for the packages  
> which are included in Fedora. FWIW, I'd personally lean toward LGPL.  
>  
> In any case, I thank you both for working on sorting this out.

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make  
the change now ?

-mike

Re: [Cracklib-devel] cracklib license

From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18

>> In any case, I thank you both for working on sorting this out.

>

> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make  
> the change now ?

yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML

On Sunday 05 October 2008, Alec Muffett wrote:

>>> In any case, I thank you both for working on sorting this out.

>>

>> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we  
>> make the change now ?

>

> yes. go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...

-mike

-----  
BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.  
-----

CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use nneul@neulinger.org.

-----

From alecm@crypticide.com Mon Oct 1 12:26:03 2007  
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);  
Mon, 1 Oct 2007 12:26:03 -0500  
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);  
Mon, 1 Oct 2007 12:26:02 -0500  
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000  
Received: from smtp1.srv.mst.edu (131.151.1.43)  
by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000  
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])  
by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id 191Gxtpr020623  
for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500  
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])  
by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311  
for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)  
Received: from [82.68.43.14] (helo=[192.168.1.3])  
by rutherford.zen.co.uk with esmtp (Exim 4.50)  
id 1IcOcX-0004Qt-6L  
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000  
Mime-Version: 1.0 (Apple Message framework v752.2)  
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>  
References: <1190922867.3457.147.camel@localhost.localdomain>  
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>

<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>  
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed  
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFE6E9F@crypticide.com>  
Content-Transfer-Encoding: 7bit  
From: Alec Muffett <alecm@crypticide.com>  
Subject: Re: cracklib license  
Date: Mon, 1 Oct 2007 17:59:46 +0100  
To: Nathan Neulinger <nneul@neulinger.org>  
X-Mailer: Apple Mail (2.752.2)  
X-Originating-Rutherford-IP: [82.68.43.14]  
Return-Path: alecm@crypticide.com  
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]  
Status: RO  
Content-Length: 585  
Lines: 21

>  
> ----- Forwarded message -----  
> From: Neulinger, Nathan <nneul@umr.edu>  
> Date: Sep 27, 2007 2:58 PM  
> Subject: RE: cracklib license  
> To: alecm@crypto.dircon.co.uk  
>  
> Any chance you could write me a self-contained email stating clearly  
> that the license is being changed to GPL, so I could include that  
> email  
> in the repository and clean up the repository/tarballs? I have all the  
> original discussion, but something succinct and self contained  
> would be  
> ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

## 1.337 liblwp-mediatypes-perl 6.04-1

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```
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```

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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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## 1.340 texinfo 6.7.0.dfsg.2-5

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```

```
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## 1.343 libgpg-error 1.37 1

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## 1.344 libdigest-bubblebabble-perl 0.02-2

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## 1.345 v86d 0.1.10-1build1

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```
CFLAGS = -g -Wall
```

```
RANLIB = ranlib
```

```
OS != uname -s
```

```
sources = lrmi.c lrmi.h
```

```
objects = lrmi.o
```

```
pic_objects = lrmi.lo
```

```
all = liblrmi.a liblrmi.so vbetest
```

```
.if ${OS}=="NetBSD" || ${OS}=="OpenBSD"
```

```
libs= -li386
```

```
.endif
```

```
all: $(all)
```

```
.c.o:
```

```
$(CC) -c $(CPPFLAGS) $(CFLAGS) -o ${.TARGET} ${.IMPSRC}
```

```
.SUFFIXES: .lo
```

```
.c.lo:
```

```
$(CC) -c $(CPPFLAGS) $(CFLAGS) -fPIC -o ${.TARGET} ${.IMPSRC}
```

```
liblrmi.a: $(objects)
```

```
$(AR) -r ${.TARGET} ${.ALLSRC}
```

```
$(RANLIB) ${.TARGET}
```

```
liblmi.so: $(pic_objects)
```

```
$(CC) $(CPPFLAGS) $(CFLAGS) -fPIC -shared -o ${.TARGET} ${.ALLSRC} ${libs}
```

```
vbetest: vbetest.o liblmi.a
```

```
$(CC) $(CPPFLAGS) $(CFLAGS) -o ${.TARGET} ${.ALLSRC} ${libs}
```

```
.PHONY: clean
```

```
clean:
```

```
rm -f $(objects) $(pic_objects) vbetest.o $(all) *.core
```

```
License information
```

```
-----
```

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## 1.346 pyyaml 5.3.1-1ubuntu0.1

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# 1.347 libxcrypt 4.4.10-10ubuntu4

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## 1.348 diffutils 3.7-3

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# 1.351 libencode-locale-perl 1.05-1

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Encode-Locale

=====

The purpose of this Perl module is try determine what encodings should be used when interfacing to various external interfaces. You will need perl-5.8 or better to use this module.

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Found in path(s):

\* /opt/cola/permits/1176891823\_1624974569.08/0/libencode-locale-perl-1-05-orig-1-tar-gz/Encode-Locale-1.05/README

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=head1 NAME

Encode::Locale - Determine the locale encoding

=head1 SYNOPSIS

```
use Encode::Locale;
use Encode;
```

```
$string = decode(locale => $bytes);
$bytes = encode(locale => $string);
```

```
if (-t) {
    binmode(STDIN, ":encoding(console_in)");
    binmode(STDOUT, ":encoding(console_out)");
    binmode(STDERR, ":encoding(console_out)");
}
```

```
# Processing file names passed in as arguments
my $uni_filename = decode(locale => $ARGV[0]);
open(my $fh, "<", encode(locale_fs => $uni_filename))
    || die "Can't open '$uni_filename': $!";
binmode($fh, ":encoding(locale)");
...
```

## =head1 DESCRIPTION

In many applications it's wise to let Perl use Unicode for the strings it processes. Most of the interfaces Perl has to the outside world are still byte based. Programs therefore need to decode byte strings that enter the program from the outside and encode them again on the way out.

The POSIX locale system is used to specify both the language conventions requested by the user and the preferred character set to consume and output. The `C<Encode::Locale>` module looks up the charset and encoding (called a CODESET in the locale jargon) and arranges for the `L<Encode>` module to know this encoding under the name "locale". It means bytes obtained from the environment can be converted to Unicode strings by calling `C<<Encode::encode(locale => $bytes) >>` and converted back again with `C<<Encode::decode(locale => $string) >>`.

Where file systems interfaces pass file names in and out of the program we also need care. The trend is for operating systems to use a fixed file encoding that don't actually depend on the locale; and this module determines the most appropriate encoding for file names. The `L<Encode>` module will know this encoding under the name "locale\_fs". For traditional Unix systems this will be an alias to the same encoding as "locale".

For programs running in a terminal window (called a "Console" on some systems) the "locale" encoding is usually a good choice for what to expect as input and output. Some systems allows us to query the encoding set for the terminal and `C<Encode::Locale>` will do that if available and make these encodings known under the `C<Encode>` aliases "console\_in" and "console\_out". For systems where we can't determine the terminal encoding these will be aliased as the same encoding as "locale". The advice is to use "console\_in" for input known to come from the terminal and "console\_out" for output to the terminal.

In addition to arranging for various Encode aliases the following functions and variables are provided:

=over

=item `decode_argv()`

=item `decode_argv( Encode::FB_CROAK )`

This will decode the command line arguments to perl (the `C<@ARGV>` array) in-place.

The function will by default replace characters that can't be decoded by `"\x{FFFD}"`, the Unicode replacement character.

Any argument provided is passed as `CHECK` to underlying `Encode::decode()` call. Pass the value `C<Encode::FB_CROAK>` to have the decoding croak if not all the

command line arguments can be decoded. See [L<Encode/"Handling Malformed Data">](#) for details on other options for CHECK.

```
=item env( $uni_key )
```

```
=item env( $uni_key => $uni_value )
```

Interface to get/set environment variables. Returns the current value as a Unicode string. The `$uni_key` and `$uni_value` arguments are expected to be Unicode strings as well. Passing `C<undef>` as `$uni_value` deletes the environment variable named `$uni_key`.

The returned value will have the characters that can't be decoded replaced by `"\x{FFFD}"`, the Unicode replacement character.

There is no interface to request alternative CHECK behavior as for `decode_argv()`. If you need that you need to call `encode/decode` yourself. For example:

```
my $key = Encode::encode(locale => $uni_key, Encode::FB_CROAK);  
my $uni_value = Encode::decode(locale => $ENV{$key}, Encode::FB_CROAK);
```

```
=item reinit( )
```

```
=item reinit( $encoding )
```

Reinitialize the encodings from the locale. You want to call this function if you changed anything in the environment that might influence the locale.

This function will croak if the determined encoding isn't recognized by the Encode module.

With argument force `$ENCODING_...` variables to set to the given value.

```
=item $ENCODING_LOCALE
```

The encoding name determined to be suitable for the current locale. [L<Encode>](#) know this encoding as "locale".

```
=item $ENCODING_LOCALE_FS
```

The encoding name determined to be suitable for file system interfaces involving file names.

[L<Encode>](#) know this encoding as "locale\_fs".

```
=item $ENCODING_CONSOLE_IN
```

```
=item $ENCODING_CONSOLE_OUT
```

The encodings to be used for reading and writing output to the a console.  
L<Encode> know these encodings as "console\_in" and "console\_out".

=back

=head1 NOTES

This table summarizes the mapping of the encodings set up  
by the C<Encode::Locale> module:

| Encode      |         |             |             |
|-------------|---------|-------------|-------------|
| Alias       | Windows | Mac OS X    | POSIX       |
| locale      | ANSI    | nl_langinfo | nl_langinfo |
| locale_fs   | ANSI    | UTF-8       | nl_langinfo |
| console_in  | OEM     | nl_langinfo | nl_langinfo |
| console_out | OEM     | nl_langinfo | nl_langinfo |

=head2 Windows

Windows has basically 2 sets of APIs. A wide API (based on passing UTF-16 strings) and a byte based API based a character set called ANSI. The regular Perl interfaces to the OS currently only uses the ANSI APIs. Unfortunately ANSI is not a single character set.

The encoding that corresponds to ANSI varies between different editions of Windows. For many western editions of Windows ANSI corresponds to CP-1252 which is a character set similar to ISO-8859-1. Conceptually the ANSI character set is a similar concept to the POSIX locale CODESET so this module figures out what the ANSI code page is and make this available as \$ENCODING\_LOCALE and the "locale" Encoding alias.

Windows systems also operate with another byte based character set. It's called the OEM code page. This is the encoding that the Console takes as input and output. It's common for the OEM code page to differ from the ANSI code page.

=head2 Mac OS X

On Mac OS X the file system encoding is always UTF-8 while the locale can otherwise be set up as normal for POSIX systems.

File names on Mac OS X will at the OS-level be converted to NFD-form. A file created by passing a NFC-filename will come in NFD-form from readdir(). See L<Unicode::Normalize> for details of NFD/NFC.

Actually, Apple does not follow the Unicode NFD standard since not all character ranges are decomposed. The claim is that this avoids problems with round trip conversions from old Mac text encodings. See L<Encode::UTF8Mac> for details.

=head2 POSIX (Linux and other Unixes)

File systems might vary in what encoding is to be used for filenames. Since this module has no way to actually figure out what the is correct it goes with the best guess which is to assume filenames are encoding according to the current locale. Users are advised to always specify UTF-8 as the locale charset.

=head1 SEE ALSO

L<I18N::Langinfo>, L<Encode>, L<Term::Encoding>

=head1 AUTHOR

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=cut

Found in path(s):

\* /opt/cola/permits/1176891823\_1624974569.08/0/libencode-locale-perl-1-05-orig-1-tar-gz/Encode-Locale-1.05/lib/Encode/Locale.pm

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---

abstract: 'Determine the locale encoding'

author:

- 'Gisle Aas <gisle@activestate.com>'

build\_requires:

ExtUtils::MakeMaker: '0'

Test::More: '0'

configure\_requires:

ExtUtils::MakeMaker: '0'

dynamic\_config: 1

generated\_by: 'ExtUtils::MakeMaker version 7.0401, CPAN::Meta::Converter version 2.150001'

license: perl

meta-spec:

url: <http://module-build.sourceforge.net/META-spec-v1.4.html>

version: '1.4'

name: Encode-Locale

no\_index:

directory:

- t
- inc

recommends:

I18N::Langinfo: '0'

requires:

Encode: '2'

Encode::Alias: '0'

perl: '5.008'

resources:

repository: <http://github.com/gisle/encode-locale>

version: '1.05'

Found in path(s):

\* /opt/cola/permits/1176891823\_1624974569.08/0/libencode-locale-perl-1-05-orig-1-tar-gz/Encode-Locale-1.05/META.yml

## 1.352 libffi 3.3 4

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MySQL Router 8.0

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Andrew Paprocki <andrew@ishiboo.com>  
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\* Added atomicops for AIX (POWER)  
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MySQL 8.0

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dtoa.c

dtoa.c

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jemalloc

jemalloc

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in "src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi\_err\_generic.et  
lib/gssapi/mechglue/g\_accept\_sec\_context.c  
lib/gssapi/mechglue/g\_acquire\_cred.c  
lib/gssapi/mechglue/g\_canon\_name.c  
lib/gssapi/mechglue/g\_compare\_name.c  
lib/gssapi/mechglue/g\_context\_time.c  
lib/gssapi/mechglue/g\_delete\_sec\_context.c  
lib/gssapi/mechglue/g\_dsp\_name.c  
lib/gssapi/mechglue/g\_dsp\_status.c  
lib/gssapi/mechglue/g\_dup\_name.c  
lib/gssapi/mechglue/g\_exp\_sec\_context.c  
lib/gssapi/mechglue/g\_export\_name.c  
lib/gssapi/mechglue/g\_glue.c  
lib/gssapi/mechglue/g\_imp\_name.c  
lib/gssapi/mechglue/g\_imp\_sec\_context.c  
lib/gssapi/mechglue/g\_init\_sec\_context.c  
lib/gssapi/mechglue/g\_initialize.c  
lib/gssapi/mechglue/g\_inquire\_context.c



lib/gssapi/mechglue/g\_inquire\_cred.c  
lib/gssapi/mechglue/g\_inquire\_names.c  
lib/gssapi/mechglue/g\_process\_context.c  
lib/gssapi/mechglue/g\_rel\_buffer.c  
lib/gssapi/mechglue/g\_rel\_cred.c  
lib/gssapi/mechglue/g\_rel\_name.c  
lib/gssapi/mechglue/g\_rel\_oid\_set.c  
lib/gssapi/mechglue/g\_seal.c  
lib/gssapi/mechglue/g\_sign.c  
lib/gssapi/mechglue/g\_store\_cred.c  
lib/gssapi/mechglue/g\_unseal.c  
lib/gssapi/mechglue/g\_userok.c  
lib/gssapi/mechglue/g\_utils.c  
lib/gssapi/mechglue/g\_verify.c  
lib/gssapi/mechglue/gssd\_pname\_to\_uid.c  
lib/gssapi/mechglue/mglueP.h  
lib/gssapi/mechglue/oid\_ops.c  
lib/gssapi/spnego/gssapiP\_spnego.h  
lib/gssapi/spnego/spnego\_mech.c

and the initial implementation of incremental propagation, including the following new or changed files:

include/iprop\_hdr.h  
kadmin/server/ipropd\_svc.c  
lib/kdb/iprop.x  
lib/kdb/kdb\_convert.c  
lib/kdb/kdb\_log.c  
lib/kdb/kdb\_log.h  
lib/krb5/error\_tables/kdb5\_err.et  
slave/kpropd\_rpc.c  
slave/kproplog.c

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libunwind

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Windows NT Service class library

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# unidata-5.2.0.txt

# Date: 2009-09-22, 16:23:42 PDT [KW]

#

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# (DUCET) for the Unicode Collation Algorithm

#

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# See UTS #10, Unicode Collation Algorithm, for more information.

#

# Diagnostic weight ranges

# Primary weight range: 0200..3ACA (14539)

# Secondary weight range: 0020..0192 (371)

# Variant secondaries: 0159..015E (6)

# Digit secondaries: 015F..0192 (52)

# Tertiary weight range: 0002..001F (30)

#

@version 5.2.0

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## ZSTD

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Also see the ChangeLog for even more people who have helped over the years by submitting fixes, patches and reporting bugs.

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-----

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Steven Grimm <sgrimm@facebook.com> -- iov writing (less CPU), UDP mode, non-2.0 slab mantissas, multithread, ...

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# This file contains a list of people who've made non-trivial  
# contribution to the Google C++ Testing Framework project. People  
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# 1.358 liblwp-protocol-https-perl 6.07-2ubuntu2

## 1.358.1 Available under license :

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=head1 NAME

LWP::Protocol::https - Provide https support for LWP::UserAgent

=head1 SYNOPSIS

```
use LWP::UserAgent;

$ua = LWP::UserAgent->new(ssl_opts => { verify_hostname => 1 });
$res = $ua->get("https://www.example.com");

# specify a CA path
$ua = LWP::UserAgent->new(
    ssl_opts => {
        SSL_ca_path => '/etc/ssl/certs',
        verify_hostname => 1,
    }
);
```

=head1 DESCRIPTION

The LWP::Protocol::https module provides support for using https schemed URLs with LWP. This module is a plug-in to the LWP protocol handling, so you don't use it directly. Once the module is installed LWP is able to access sites using HTTP over SSL/TLS.

If hostname verification is requested by LWP::UserAgent's C<ssl\_opts>, and neither C<SSL\_ca\_file> nor C<SSL\_ca\_path> is set, then C<SSL\_ca\_file> is implied to be the one provided by Mozilla::CA. If the Mozilla::CA module isn't available SSL requests will fail. Either install this module, set up an alternative C<SSL\_ca\_file> or disable hostname verification.

This module used to be bundled with the libwww-perl, but it was unbundled in v6.02 in order to be able to declare its dependencies properly for the CPAN tool-chain. Applications that need https support can just declare their dependency on LWP::Protocol::https and will no longer need to know what underlying modules to install.

=head1 SEE ALSO

L<IO::Socket::SSL>, L<Crypt::SSLeay>, L<Mozilla::CA>

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\* /opt/cola/permits/1109180166\_1606268542.5/0/liblwp-protocol-https-perl-6-07-orig-1-tar-gz/LWP-Protocol-https-6.07/lib/LWP/Protocol/https.pm

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---

abstract: 'Provide https support for LWP::UserAgent'

author:

- 'Gisle Aas <gisle@activestate.com>'

build\_requires:

Test::More: '0'

Test::RequiresInternet: '0'

configure\_requires:

ExtUtils::MakeMaker: '0'

dynamic\_config: 1

generated\_by: 'ExtUtils::MakeMaker version 7.24, CPAN::Meta::Converter version 2.150005'

license: perl

meta-spec:

url: <http://module-build.sourceforge.net/META-spec-v1.4.html>

version: '1.4'

name: LWP-Protocol-https

no\_index:

directory:

- t

- inc

requires:

IO::Socket::SSL: '1.54'

LWP::UserAgent: '6.06'

Mozilla::CA: '20110101'

Net::HTTPS: '6'

perl: '5.008001'

resources:

MailingList: <mailto:libwww@perl.org>

repository: <http://github.com/libwww-perl/lwp-protocol-https>

version: '6.07'

x\_serialization\_backend: 'CPAN::Meta::YAML version 0.018'

Found in path(s):

\* /opt/cola/permits/1109180166\_1606268542.5/0/liblwp-protocol-https-perl-6-07-orig-1-tar-gz/LWP-Protocol-

https-6.07/META.yml

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```
#####  
LWP::Protocol::https 6.06  
#####
```

## NAME

LWP::Protocol::https - Provide https support for LWP::UserAgent

## SYNOPSIS

```
use LWP::UserAgent;
```

```
$ua = LWP::UserAgent->new(ssl_opts => { verify_hostname => 1 });  
$res = $ua->get("https://www.example.com");
```

## DESCRIPTION

The LWP::Protocol::https module provides support for using https schemed URLs with LWP. This module is a plug-in to the LWP protocol handling, so you don't use it directly. Once the module is installed LWP is able to access sites using HTTP over SSL/TLS.

If hostname verification is requested by LWP::UserAgent's "ssl\_opts", and neither "SSL\_ca\_file" nor "SSL\_ca\_path" is set, then "SSL\_ca\_file" is implied to be the one provided by Mozilla::CA. If the Mozilla::CA module isn't available SSL requests will fail. Either install this module, set up an alternative "SSL\_ca\_file" or disable hostname verification.

This module used to be bundled with the libwww-perl, but it was unbundled in v6.02 in order to be able to declare its dependencies properly for the CPAN tool-chain. Applications that need https support can just declare their dependency on LWP::Protocol::https and will no longer need to know what underlying modules to install.

## SEE ALSO

IO::Socket::SSL, Crypt::SSLeay, Mozilla::CA

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Found in path(s):

```
* /opt/cola/permits/1109180166_1606268542.5/0/liblwp-protocol-https-perl-6-07-orig-1-tar-gz/LWP-Protocol-https-6.07/README
```

# 1.359 bsdmainutils 11.1.2ubuntu3

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This package was originally put together by Austin Donnelly <and1000@debian.org>, but is heavily based on bsdutils, originally put together by Ian Murdock <imurdock@gnu.ai.mit.edu>. Please report any problems or suggested additions or changes to Austin Donnelly.

Then the package has been maintained by Charles Briscoe-Smith <cpbs@debian.org>. I gathered data for the 1999-2001 calendar files from various sources on the Internet, and I'd also like to thank Oliver Elphick, Julian Gilbey, Daniel Martin and Jaldhar H. Vyas for providing much useful data on the various religious calendars. I have edited the files they provided to fit calendar's requirements, so any errors should be attributed to me.

After cpbs@debian.org, Marco d'Itri <md@linux.it> maintained it for almost two years, before Tollef Fog Heen <tfheen@debian.org> took over. The package is now maintained by Graham Wilson <bob@decoy.wox.org>.

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## 1.360 bash-completion 2.10-1ubuntu1

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# 1.367 python-defaults 3.8.2-0ubuntu2

## 1.367.1 Available under license :

This is the Debian GNU/Linux prepackaged version of the Python programming language. Python was written by Guido van Rossum <guido@cwi.nl> and others.

This package was put together by Klee Dienes <klee@debian.org> from sources from ftp.python.org:/pub/python, based on the Debianization by the previous maintainers Bernd S. Brentrup <bsb@uni-muenster.de> and Bruce Perens.

Current maintainer is Matthias Klose <doko@debian.org> until the final 2.3 version is released.

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A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

| Release | Derived | Year | Owner | GPL- |
|---------|---------|------|-------|------|
|---------|---------|------|-------|------|

|                | from      |           |            | compatible? (1) |
|----------------|-----------|-----------|------------|-----------------|
| 0.9.0 thru 1.2 |           | 1991-1995 | CWI        | yes             |
| 1.3 thru 1.5.2 | 1.2       | 1995-1999 | CNRI       | yes             |
| 1.6            | 1.5.2     | 2000      | CNRI       | no              |
| 2.0            | 1.6       | 2000      | BeOpen.com | no              |
| 1.6.1          | 1.6       | 2001      | CNRI       | yes (2)         |
| 2.1            | 2.0+1.6.1 | 2001      | PSF        | no              |
| 2.0.1          | 2.0+1.6.1 | 2001      | PSF        | yes             |
| 2.1.1          | 2.1+2.0.1 | 2001      | PSF        | yes             |
| 2.2            | 2.1.1     | 2001      | PSF        | yes             |
| 2.1.2          | 2.1.1     | 2002      | PSF        | yes             |
| 2.1.3          | 2.1.2     | 2002      | PSF        | yes             |
| 2.2.1          | 2.2       | 2002      | PSF        | yes             |
| 2.2.2          | 2.2.1     | 2002      | PSF        | yes             |
| 2.2.3          | 2.2.2     | 2003      | PSF        | yes             |
| 2.3            | 2.2.2     | 2002-2003 | PSF        | yes             |
| 2.3.1          | 2.3       | 2002-2003 | PSF        | yes             |
| 2.3.2          | 2.3.1     | 2002-2003 | PSF        | yes             |
| 2.3.3          | 2.3.2     | 2002-2003 | PSF        | yes             |
| 2.3.4          | 2.3.3     | 2004      | PSF        | yes             |
| 2.3.5          | 2.3.4     | 2005      | PSF        | yes             |
| 2.4            | 2.3       | 2004      | PSF        | yes             |
| 2.4.1          | 2.4       | 2005      | PSF        | yes             |
| 2.4.2          | 2.4.1     | 2005      | PSF        | yes             |
| 2.4.3          | 2.4.2     | 2006      | PSF        | yes             |
| 2.4.4          | 2.4.3     | 2006      | PSF        | yes             |
| 2.5            | 2.4       | 2006      | PSF        | yes             |
| 2.5.1          | 2.5       | 2007      | PSF        | yes             |
| 2.5.2          | 2.5.1     | 2008      | PSF        | yes             |
| 2.5.3          | 2.5.2     | 2008      | PSF        | yes             |
| 2.6            | 2.5       | 2008      | PSF        | yes             |
| 2.6.1          | 2.6       | 2008      | PSF        | yes             |
| 2.6.2          | 2.6.1     | 2009      | PSF        | yes             |
| 2.6.3          | 2.6.2     | 2009      | PSF        | yes             |
| 2.6.4          | 2.6.3     | 2009      | PSF        | yes             |
| 3.0            | 2.6       | 2008      | PSF        | yes             |
| 3.0.1          | 3.0       | 2009      | PSF        | yes             |
| 3.1            | 3.0.1     | 2009      | PSF        | yes             |
| 3.1.1          | 3.1       | 2009      | PSF        | yes             |

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## 1.368 findutils 4.7.0 1ubuntu1

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## 1.379 debianutils 4.9.1

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## 1.380 liburi-perl 1.76-2

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```
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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
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under certain conditions; type `show c' for details.
```

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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the
program `Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

That's all there is to it!

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The End

# 1.381 urllib3 1.25.8

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# Contributions to the urllib3 project

## Creator & Maintainer

\* Andrey Petrov <andrey.petrov@shazow.net>

## Contributors

In chronological order:

\* victor.vde <<http://code.google.com/u/victor.vde/>>

\* HTTPS patch (which inspired HTTPSConnectionPool)

\* erikcederstrand <<http://code.google.com/u/erikcederstrand/>>

\* NTLM-authenticated HTTPSConnectionPool

\* Basic-authenticated HTTPSConnectionPool (merged into make\_headers)

\* niphlod <niphlod@gmail.com>

\* Client-verified SSL certificates for HTTPSConnectionPool

\* Response gzip and deflate encoding support

\* Better unicode support for filepost using StringIO buffers

\* btoconnor <brian@btoconnor.net>

\* Non-multipart encoding for POST requests

\* p.dobrogost <<http://code.google.com/u/@WBRSRIBZDhBFXQB6/>>

\* Code review, PEP8 compliance, benchmark fix

\* kennethreitz <me@kennethreitz.com>

\* Bugfixes, suggestions, Requests integration

\* georgemarshall <<https://github.com/georgemarshall>>

\* Bugfixes, Improvements and Test coverage

- \* Thomas Kluyver <thomas@kluyver.me.uk>
- \* Python 3 support
  
- \* brandon-rhodes <<http://rhodesmill.org/brandon>>
- \* Design review, bugfixes, test coverage.
  
- \* studer <theo.studer@gmail.com>
- \* IPv6 url support and test coverage
  
- \* Shivaram Lingamneni <slingamn@cs.stanford.edu>
- \* Support for explicitly closing pooled connections
  
- \* hartator <hartator@gmail.com>
- \* Corrected multipart behavior for params
  
- \* Thomas Weischuh <thomas@t-8ch.de>
- \* Support for TLS SNI
- \* API unification of ssl\_version/cert\_reqs
- \* SSL fingerprint and alternative hostname verification
- \* Bugfixes in testsuite
  
- \* Sune Kirkeby <mig@ibofobi.dk>
- \* Optional SNI-support for Python 2 via PyOpenSSL.
  
- \* Marc Schlaich <marc.schlaich@gmail.com>
- \* Various bugfixes and test improvements.
  
- \* Bryce Boe <bbzbryce@gmail.com>
- \* Correct six.moves conflict
- \* Fixed pickle support of some exceptions
  
- \* Boris Figovsky <boris.figovsky@ravellosystems.com>
- \* Allowed to skip SSL hostname verification
  
- \* Cory Benfield <<https://lukasa.co.uk/about/>>
- \* Stream method for Response objects.
- \* Return native strings in header values.
- \* Generate 'Host' header when using proxies.
  
- \* Jason Robinson <jaywink@basshero.org>
- \* Add missing WrappedSocket.fileno method in PyOpenSSL
  
- \* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
- \* Fixed a race condition
  
- \* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
- \* Added HTTPS (CONNECT) proxy support

- \* Stephen Holsapple <sholsapp@gmail.com>
- \* Added abstraction for granular control of request fields
  
- \* Martin von Gagern <Martin.vGagern@gmx.net>
- \* Support for non-ASCII header parameters
  
- \* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
- \* Support for separate connect and request timeouts
  
- \* Peter Waller <p@pwaller.net>
- \* HTTPResponse.tell() for determining amount received over the wire
  
- \* Nipunn Koorapati <nipunn1313@gmail.com>
- \* Ignore default ports when comparing hosts for equality
  
- \* Danilo @dbrgn <https://dbrgn.ch/>
- \* Disabled TLS compression by default on Python 3.2+
- \* Disabled TLS compression in pyopenssl contrib module
- \* Configurable cipher suites in pyopenssl contrib module
  
- \* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
- \* Account retries on proxy errors
  
- \* Nicolas Delaby <nicolas.delaby@ezeep.com>
- \* Use the platform-specific CA certificate locations
  
- \* Josh Schneier <https://github.com/jschneier>
- \* HTTPHeaderDict and associated tests and docs
- \* Bugfixes, docs, test coverage
  
- \* Tahia Khan <http://tahia.tk/>
- \* Added Timeout examples in docs
  
- \* Arthur Grunseid <https://grunseid.com>
- \* source\_address support and tests (with https://github.com/bui)
  
- \* Ian Cordasco <graffatcolmingov@gmail.com>
- \* PEP8 Compliance and Linting
- \* Add ability to pass socket options to an HTTP Connection
  
- \* Erik Tollerud <erik.tollerud@gmail.com>
- \* Support for standard library io module.
  
- \* Krishna Prasad <kprasad.iitd@gmail.com>
- \* Google App Engine documentation
  
- \* Aaron Meurer <asmeurer@gmail.com>

- \* Added `Url.url`, which unparses a `Url`
  
- \* Evgeny Kapun <abacabadabacaba@gmail.com>
- \* Bugfixes
  
- \* Benjamin Meyer <bm\_witness@yahoo.com>
- \* Security Warning Documentation update for proper capture
  
- \* Shivan Sornarajah <github@sornars.com>
- \* Support for using `ConnectionPool` and `PoolManager` as context managers.
  
- \* Alex Gaynor <alex.gaynor@gmail.com>
- \* Updates to the default SSL configuration
  
- \* Tomas Tomecek <ttomecek@redhat.com>
- \* Implemented generator for getting chunks from chunked responses.
  
- \* tlynn <https://github.com/tlynn>
- \* Respect the warning preferences at import.
  
- \* David D. Riddle <ddriddle@illinois.edu>
- \* IPv6 bugfixes in testsuite
  
- \* Thea Flowers <magicalgirl@google.com>
- \* App Engine environment tests.
- \* Documentation re-write.
  
- \* John Krauss <https://github.com/talos>
- \* Clues to debugging problems with ``cryptography`` dependency in docs
  
- \* Disassem <https://github.com/Disassem>
- \* Fix pool-default headers not applying for url-encoded requests like GET.
  
- \* James Atherfold <jlatherfold@hotmail.com>
- \* Bugfixes relating to cleanup of connections during errors.
  
- \* Christian Pedersen <https://github.com/chripede>
- \* IPv6 HTTPS proxy bugfix
  
- \* Jordan Moldow <https://github.com/jmoldow>
- \* Fix low-level exceptions leaking from ```HTTPResponse.stream()```.
- \* Bugfix for ```ConnectionPool.urlopen(release_conn=False)```.
- \* Creation of ```HTTPConnectionPool.ResponseCls```.
  
- \* Predrag Gruevski <https://github.com/obi1kenobi>
- \* Made cert digest comparison use a constant-time algorithm.
  
- \* Adam Talsma <https://github.com/a-tal>

- \* Bugfix to ca\_cert file paths.
  
- \* Evan Meagher <<https://evanmeagher.net>>
  - \* Bugfix related to `memoryview` usage in PyOpenSSL adapter
  
- \* John Vandenberg <[jayvdb@gmail.com](mailto:jayvdb@gmail.com)>
  - \* Python 2.6 fixes; pyflakes and pep8 compliance
  
- \* Andy Caldwell <[andy.m.caldwell@gmail.com](mailto:andy.m.caldwell@gmail.com)>
  - \* Bugfix related to reusing connections in indeterminate states.
  
- \* Ville Skytt <[ville.skytta@iki.fi](mailto:ville.skytta@iki.fi)>
  - \* Logging efficiency improvements, spelling fixes, Travis config.
  
- \* Shige Takeda <[smtakeda@gmail.com](mailto:smtakeda@gmail.com)>
  - \* Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response
  
- \* Jess Shapiro <[jesse@jesseshapiro.net](mailto:jesse@jesseshapiro.net)>
  - \* Various character-encoding fixes/tweaks
  - \* Disabling IPv6 DNS when IPv6 connections not supported
  
- \* David Foster <<http://dafoster.net/>>
  - \* Ensure order of request and response headers are preserved.
  
- \* Jeremy Cline <[jeremy@jcline.org](mailto:jeremy@jcline.org)>
  - \* Added connection pool keys by scheme
  
- \* Aviv Palivoda <[palaviv@gmail.com](mailto:palaviv@gmail.com)>
  - \* History list to Retry object.
  - \* HTTPResponse contains the last Retry object.
  
- \* Nate Prewitt <[nate.prewitt@gmail.com](mailto:nate.prewitt@gmail.com)>
  - \* Ensure timeouts are not booleans and greater than zero.
  - \* Fixed infinite loop in ``stream`` when amt=None.
  - \* Added length\_remaining to determine remaining data to be read.
  - \* Added enforce\_content\_length to raise exception when incorrect content-length received.
  
- \* Seth Michael Larson <[sethmichaellarson@protonmail.com](mailto:sethmichaellarson@protonmail.com)>
  - \* Created selectors backport that supports PEP 475.
  
- \* Alexandre Dias <[alex.dias@smarkets.com](mailto:alex.dias@smarkets.com)>
  - \* Don't retry on timeout if method not in whitelist
  
- \* Moinuddin Quadri <[moin18@gmail.com](mailto:moin18@gmail.com)>
  - \* Lazily load idna package
  
- \* Tom White <[s6yg1ez3@mail2tor.com](mailto:s6yg1ez3@mail2tor.com)>
  - \* Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

- \* Tim Burke <tim.burke@gmail.com>
- \* Stop buffering entire deflate-encoded responses.
  
- \* Tuukka Mustonen <tuukka.mustonen@gmail.com>
- \* Add counter for status\_forcelist retries.
  
- \* Erik Rose <erik@mozilla.com>
- \* Bugfix to pyopenssl vendoring
  
- \* Wolfgang Richter <wolfgang.richter@gmail.com>
- \* Bugfix related to loading full certificate chains with PyOpenSSL backend.
  
- \* Mike Miller <github@mikeage.net>
- \* Logging improvements to include the HTTP(S) port when opening a new connection
  
- \* Ioannis Tziakos <mail@itziakos.gr>
- \* Fix ``util.selectors.\_fileobj\_to\_fd`` to accept ``long``.
- \* Update appveyor tox setup to use the 64bit python.
  
- \* Akamai (through Jess Shapiro) <jshapiro@akamai.com>
- \* Ongoing maintenance; 2017-2018
  
- \* Dominique Leuenberger <dimstar@opensuse.org>
- \* Minor fixes in the test suite
  
- \* Will Bond <will@wbond.net>
- \* Add Python 2.6 support to ``contrib.securetransport``
  
- \* Aleksei Alekseev <alekseev.yeskela@gmail.com>
- \* using auth info for socks proxy
  
- \* Chris Wilcox <git@crwilcox.com>
- \* Improve contribution guide
- \* Add ``HTTPResponse.geturl`` method to provide ``urllib2.urlopen().geturl()`` behavior
  
- \* Bruce Merry <https://www.brucemerry.org.za>
- \* Fix leaking exceptions when system calls are interrupted with zero timeout
  
- \* Hugo van Kemenade <https://github.com/hugovk>
- \* Drop support for EOL Python 2.6
  
- \* Tim Bell <https://github.com/timb07>
- \* Bugfix for responses with Content-Type: message/\* logging warnings
  
- \* Justin Bramley <https://github.com/jbramleycl>
- \* Add ability to handle multiple Content-Encodings

- \* Katsuhiko YOSHIDA <<https://github.com/kyoshidajp>>
  - \* Remove Authorization header regardless of case when redirecting to cross-site
  
  - \* James Meickle <<https://permadeath.com/>>
  - \* Improve handling of Retry-After header
  
  - \* Chris Jerdonek <[chris.jerdonek@gmail.com](mailto:chris.jerdonek@gmail.com)>
  - \* Remove a spurious TypeError from the exception chain inside HTTPConnectionPool.\_make\_request(), also for BaseExceptions.
  
  - \* [Your name or handle] <[email or website]>
  - \* [Brief summary of your changes]
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# 1.382 libuv 1.34.2-1ubuntu1.3

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## 1.383 nghttp2 1.40.0-1build1

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set yrange [0:]

set terminal pngcairo font 'Sans, 8' lw 1 size 1400,1024

set xtics rotate by -45

set style histogram errorbars gap 2 lw 1

set style fill solid border -1

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## 1.384 usbutils 012-2

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## 1.385 cryptsetup 2.2.2-3ubuntu2

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```
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```

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## 1.386 perl 5.30.0-9ubuntu0.2

### 1.386.1 Available under license :

```
# $Id: errnolist.a,v 3.0 1993/08/18 12:04:35 ram Exp ram $
#
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#
# Original Author: Harlan Stenn <harlan@mumps.pfcs.com>
#
# $Log: errnolist.a,v $
# Revision 3.0 1993/08/18 12:04:35 ram
# Baseline for dist 3.0 netwide release.
#
#
# This is a simple-minded awk script to generate an initialization for
# sys_errnolist on systems that don't have it.
# This file now depends only on sys/errno.h error numbers under maxerr being
# in order. It will complain and die if not. NOTE: It will still produce
# a compilable output file, even with errors, so you must check the output.
```

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## 1.387 glibc 2.31-0ubuntu9.2

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Written by: Philip Hazel  
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```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) 19yy <name of author>
```

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Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) 19xx name of author  
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
This is free software, and you are welcome to redistribute it  
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the  
program `Gnomovision' (a program to direct compilers to make passes  
at assemblers) written by James Hacker.
```

<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

That's all there is to it!

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## 1.394 libtimedate-perl 2.3200-1

### 1.394.1 Available under license :

No license file was found, but licenses were detected in source scan.

=encoding utf8

=head1 NAME

Date::Language::Bulgarian - localization for Date::Format

=head1 DESCRIPTION

This is Bulgarian localization for Date::Format.

It is important to note that this module source code is in utf8.  
All strings which it outputs are in utf8, so it is safe to use it  
currently only with English. You are left alone to try and convert  
the output when using different Date::Language::\* in the same application.  
This should be addressed in the future.

## =head1 SYNOPSIS

```
use strict;
use warnings;
use Date::Language;
local $\=$/;
my $template='%a %b %e %T %Y (%Y-%m-%d %H:%M:%S)';
my $time=1290883821; #or just use time();
my @lt = localtime($time);
my %languages = qw(English GMT German EEST Bulgarian EET);
binmode(select,'utf8');

foreach my $l(keys %languages){
    my $lang = Date::Language->new($l);
    my $zone = $languages{$l};
    print $/. "$l $zone";
    print $lang->time2str($template, $time);
    print $lang->time2str($template, $time, $zone);

    print $lang->strftime($template, \@lt);
}
```

## =head1 AUTHOR

Krasimir Berov (berov@cpan.org)

## =head1 COPYRIGHT

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software; you can redistribute it and/or modify it under the same terms  
as Perl itself.

=cut

Found in path(s):

```
* /opt/cola/permits/1146928942_1616812368.9/0/libtimedate-perl-2-3200-orig-1-tar-gz/TimeDate-2.32/lib/Date/Language/Bulgarian.pm
```

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## =head1 NAME

Date::Language::Hungarian - Magyar format for Date::Format

## =head1 SYNOPSIS

```
my $lang = Date::Language->new('Hungarian');
print $lang->time2str("%a %b %e %T %Y", time);
```

```
@lt = localtime(time);
print $lang->time2str($template, time);
print $lang->strftime($template, @lt);
```

```
print $lang->time2str($template, time, $zone);
print $lang->strftime($template, @lt, $zone);
```

```
print $lang->ctime(time);
print $lang->asctime(@lt);
```

```
print $lang->ctime(time, $zone);
print $lang->asctime(@lt, $zone);
```

See L<Date::Format>.

## =head1 AUTHOR

Paula Goddard (paula -at- paulacska -dot- com)

## =head1 LICENCE

Made available under the same terms as Perl itself.

=cut

Found in path(s):

```
* /opt/cola/permits/1146928942_1616812368.9/0/libtimedate-perl-2-3200-orig-1-tar-gz/TimeDate-2.32/lib/Date/Language/Hungarian.pm
```

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---

abstract: unknown

author:

- 'Graham Barr <gbarr@pobox.com>'

build\_requires:

ExtUtils::MakeMaker: '0'

configure\_requires:

ExtUtils::MakeMaker: '0'

dynamic\_config: 1

generated\_by: 'ExtUtils::MakeMaker version 7.44, CPAN::Meta::Converter version 2.150010'

license: perl

meta-spec:

url: <http://module-build.sourceforge.net/META-spec-v1.4.html>  
version: '1.4'  
name: TimeDate  
no\_index:  
directory:  
- t  
- inc  
resources:  
bugtracker: <https://github.com/atoomic/perl-TimeDate/issues>  
repository: <https://github.com/atoomic/perl-TimeDate>  
version: '2.32'  
x\_serialization\_backend: 'CPAN::Meta::YAML version 0.018'

Found in path(s):

\* /opt/cola/permits/1146928942\_1616812368.9/0/libtimedate-perl-2-3200-orig-1-tar-gz/TimeDate-2.32/META.yml

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\* /opt/cola/permits/1146928942\_1616812368.9/0/libtimedate-perl-2-3200-orig-1-tar-gz/TimeDate-2.32/lib/Date/Parse.pm

\* /opt/cola/permits/1146928942\_1616812368.9/0/libtimedate-perl-2-3200-orig-1-tar-gz/TimeDate-2.32/lib/Date/Format.pm

No license file was found, but licenses were detected in source scan.

This is the perl5 TimeDate distribution. It requires perl version 5.003 or later

This distribution replaces my earlier GetDate distribution, which was only a date parser. The date parser contained in this distribution is far superior to the yacc based parser, and a \*lot\* faster.

The parser contained here will only parse absolute dates, if you want a date parser that can parse relative dates then take a look at the Time modules by David Muir on CPAN.

You install the library by running these commands:

```
perl Makefile.PL
make
make test
make install
```

Please report any bugs/suggestions to <[gbarr@pobox.com](mailto:gbarr@pobox.com)>

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Share and Enjoy!

Graham <gbarr@pobox.com>

Found in path(s):

\* /opt/cola/permits/1146928942\_1616812368.9/0/libtimedate-perl-2-3200-orig-1-tar-gz/TimeDate-2.32/README

# 1.395 linux-atm 2.5.1-4

## 1.395.1 Available under license :

/\*

\* Marko Kiiskila carnil@cs.tut.fi

\*

\* Tampere University of Technology - Telecommunications Laboratory

\*

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Version 2, June 1991

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This script is compatible with the BSD install script, but was written from scratch. It can only install one file at a time, a restriction shared with many OS's install programs.

Files: debian/\*

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Jean-loup Gailly      Mark Adler

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Ackeret, Matt  
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Allbery, Russ  
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Andrew, Nick  
Andric, Dimitry  
Barron, Danny  
Bates, Tom  
Behan, Zdenk  
Bellis, Ray  
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## 1.401 xdg-user-dirs 0.17-2ubuntu1

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# 1.402 libnet-smtp-ssl-perl 1.04-1

## 1.402.1 Available under license :

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=head1 NAME

Net::SMTP::SSL - SSL support for Net::SMTP

=head1 SYNOPSIS

```
use Net::SMTP::SSL;
```

```
my $smtps = Net::SMTP::SSL->new("example.com", Port => 465);
```

=head1 DEPRECATED

B<Hey! Read this!>

Since Net::SMTP v1.28 (2014-10-08), Net::SMTP itself has support for SMTP over SSL, and also for STARTTLS. Use Net::SMTP, not Net::SMTP::SSL.

=head1 DESCRIPTION

Implements the same API as L<Net::SMTP|Net::SMTP>, but uses L<IO::Socket::SSL|IO::Socket::SSL> for its network operations. Due to the nature of C<Net::SMTP>'s C<new> method, it is not overridden to make use of a default port for the SMTPS service. Perhaps future versions will be smart like that. Port C<465> is usually what you want, and it's not a pain to specify that.

For interface documentation, please see L<Net::SMTP|Net::SMTP>.

=head1 SEE ALSO

L<Net::SMTP>,  
L<IO::Socket::SSL>,  
L<perl>.

=head1 AUTHOR

Casey West, <F<casey@geeknest.com>>.

## =head1 COPYRIGHT

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## =cut

Found in path(s):

\* /opt/cola/permits/1188155301\_1628550386.26/0/libnet-smtp-ssl-perl-1-04-orig-1-tar-gz/Net-SMTP-SSL-1.04/lib/Net/SMTP/SSL.pm

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## NAME

Net::SMTP::SSL - SSL support for Net::SMTP

## SYNOPSIS

```
use Net::SMTP::SSL;
```

```
my $smtps = Net::SMTP::SSL->new("example.com", Port => 465);
```

## DESCRIPTION

Implements the same API as Net::SMTP, but uses IO::Socket::SSL for its network operations. Due to the nature of "Net::SMTP"'s "new" method, it is not overridden to make use of a default port for the SMTPS service. Perhaps future versions will be smart like that. Port 465 is usually what you want, and it's not a pain to specify that.

For interface documentation, please see Net::SMTP.

## SEE ALSO

Net::SMTP, IO::Socket::SSL, perl.

## AUTHOR

Casey West, <casey@geeknest.com>.

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\* /opt/cola/permits/1188155301\_1628550386.26/0/libnet-smtp-ssl-perl-1-04-orig-1-tar-gz/Net-SMTP-SSL-1.04/README

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```
---
abstract: 'SSL support for Net::SMTP'
author:
- 'Casey West <casey@geeknest.com>'
build_requires:
  ExtUtils::MakeMaker: '0'
configure_requires:
  ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.16, CPAN::Meta::Converter version 2.150005'
license: unknown
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: '1.4'
name: Net-SMTP-SSL
no_index:
  directory:
    - t
    - inc
requires:
  IO::Socket::SSL: '0'
  Net::SMTP: '0'
  Test::More: '0.47'
version: '1.04'
x_deprecated: 1
x_serialization_backend: 'CPAN::Meta::YAML version 0.018'

Found in path(s):
* /opt/cola/permits/1188155301_1628550386.26/0/libnet-smtp-ssl-perl-1-04-orig-1-tar-gz/Net-SMTP-SSL-1.04/META.yml
```

## 1.403 patch 2.7.6-6

### 1.403.1 Available under license :

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Version 3, 29 June 2007

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```
#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
```

```
all:: image
```

```
real-subdirs:: Makefile
@echo " MKDIR pic"
@mkdir -p pic
```

```
BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic
```

```
image: $(BSD_LIB)
```

```
$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \
`echo $(my_dir) | sed -e 's;lib/;;' /$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
@echo " INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \
$(DESTDIR)$$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)
```

install-strip: install

install-shlibs-strip:: install-shlibs

```
uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
```

```
clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)
```

This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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Index: tdbsa/tdb.c

-----  
--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

@@ -4,11 +4,11 @@ Rev: 23371

Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)

\*/

/\*

- Unix SMB/CIFS implementation.

+ trivial database library - standalone version

- trivial database library - private includes
- 
- Copyright (C) Andrew Tridgell 2005
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Theodore Ts'o  
23-June-2007

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That's all there is to it!

This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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Upstream Author: Theodore Ts'o <tytso@mit.edu>

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This is the Debian GNU/Linux prepackaged version of the `ss` command-line interface parsing library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:  
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Gadi Oxman, August 1995

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Source: <http://www.openbsd.org/cgi-bin/cvsweb/src/usr.bin/nc/>

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\* markupsafe.\_speedups

\* ~~~~~

\*

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LIBGCRYPT The Written Word 2005-04-15

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src/Makefile.am, src/secmem.c, mpi/hppa1.1/mpih-mul3.S,  
mpi/hppa1.1/udiv-qrnd.S, mpi/hppa1.1/mpih-mul2.S,  
mpi/hppa1.1/mpih-mul1.S, mpi/Makefile.am, tests/prime.c,  
tests/register.c, tests/ac.c, tests/basic.c, tests/tsexp.c,  
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(Added OFB mode. Changed cipher/cipher.c, test/basic.c doc/gcrypt.tex.  
added SHA-224, changed cipher/sha256.c, added HMAC tests.)

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Libgcrypt used to be part of GnuPG but has been taken out into its own package on 2000-12-21.

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\* @version 3.0 (December 2000)

\*

\* Optimised ANSI C code for the Rijndael cipher (now AES)

\*

\* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>

\* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>

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## 1.423 certifi 2019.11.28

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This package contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#

This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:

<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>

It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php\_curl, or with an Apache+mod\_ssl webserver for SSL client authentication. Just configure this file as the SSLCACertificateFile.#

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@(#) \$RCSfile: certdata.txt,v \$ \$Revision: 1.80 \$ \$Date: 2011/11/03 15:11:58 \$

## 1.424 libssh 0.9.3 2ubuntu2.2

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Upstream-Name: libssh

Upstream-Contact: libssh@libssh.org

Andreas Schneider <asn@cryptomilk.org>

Source: <https://git.libssh.org/projects/libssh.git>

Files: \*

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Files: include/libssh/auth.h

include/libssh/bignum.h

include/libssh/bind.h

include/libssh/buffer.h

include/libssh/channels.h

include/libssh/crc32.h

include/libssh/crypto.h

include/libssh/dh.h

include/libssh/ecdh.h

include/libssh/ed25519.h

include/libssh/gssapi.h

include/libssh/kex.h

include/libssh/keys.h

include/libssh/legacy.h

include/libssh/libcrypto.h

include/libssh/libcrypt.h

include/libssh/libssh.h

include/libssh/libsshpp.hpp

include/libssh/messages.h

include/libssh/misc.h

include/libssh/packet.h

include/libssh/pcap.h  
include/libssh/pki.h  
include/libssh/pki\_priv.h  
include/libssh/poll.h  
include/libssh/priv.h  
include/libssh/scp.h  
include/libssh/server.h  
include/libssh/session.h  
include/libssh/sftp.h  
include/libssh/socket.h  
include/libssh/string.h  
include/libssh/threads.h  
include/libssh/wrapper.h  
src/auth1.c  
src/base64.c  
src/bignum.c  
src/bind.c  
src/buffer.c  
src/client.c  
src/connect.c  
src/crc32.c  
src/ecdh.c  
src/error.c  
src/gcrypt\_missing.c  
src/init.c  
src/kex.c  
src/kex1.c  
src/legacy.c  
src/libcrypto.c  
src/libgcrypt.c  
src/log.c  
src/messages.c  
src/packet.c  
src/packet1.c  
src/packet\_cb.c  
src/packet\_crypt.c  
src/pcap.c  
src/pki\_container\_openssh.c  
src/pki\_ed25519.c  
src/server.c  
src/session.c  
src/sftpserver.c  
src/socket.c  
src/string.c  
src/threads.c  
src/threads/pthread.c  
src/wrapper.c  
tests/benchmarks/bench\_raw.c

tests/benchmarks/bench\_scp.c  
tests/benchmarks/bench\_sftp.c  
tests/benchmarks/benchmarks.c  
tests/benchmarks/benchmarks.h  
tests/benchmarks/latency.c  
tests/client/torture\_algorithms.c  
tests/client/torture\_auth.c  
tests/client/torture\_connect.c  
tests/client/torture\_knownhosts.c  
tests/client/torture\_session.c  
tests/test\_pcap.c  
tests/test\_socket.c

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Files: examples/exec.c

examples/senddata.c  
examples/CMakeLists.txt  
include/libssh/ssh1.h  
include/libssh/ssh2.h  
tests/authentication.c  
tests/benchmarks/bench1.sh  
tests/benchmarks/bench2.sh  
tests/chmodtest.c  
tests/client/torture\_proxycommand.c  
tests/client/torture\_sftp\_dir.c  
tests/client/torture\_sftp\_read.c  
tests/cmdline.c  
tests/connection.c  
tests/generate.py  
tests/sftp\_stress/main.c  
tests/test\_exec.c  
tests/test\_ssh\_bind\_accept\_fd.c  
tests/test\_tunnel.c  
tests/tests.h  
tests/unittests/torture\_buffer.c  
tests/unittests/torture\_callbacks.c  
tests/unittests/torture\_channel.c  
tests/unittests/torture\_init.c  
tests/unittests/torture\_isipaddr.c  
tests/unittests/torture\_keyfiles.c  
tests/unittests/torture\_list.c  
tests/unittests/torture\_misc.c  
tests/unittests/torture\_options.c  
tests/unittests/torture\_pki.c  
tests/unittests/torture\_rand.c

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Files: examples/authentication.c

- examples/connect\_ssh.c
- examples/examples\_common.h
- examples/knownhosts.c
- examples/libssh\_scp.c
- examples/libsshpp.cpp
- examples/libsshpp\_noexcept.cpp
- examples/proxy.c
- examples/sample.c
- examples/samplesftp.c
- examples/samplesshd-cb.c
- examples/samplesshd-kbdint.c
- examples/scp\_download.c
- examples/sshnetcat.c

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Files: src/external/curve25519\_ref.c

- src/external/ed25519.c
- src/external/fe25519.c
- src/external/ge25519.c
- src/external/ge25519\_base.data
- src/external/sc25519.c

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Files: tests/pkd/pkd\_client.h

- tests/pkd/pkd\_daemon.c
- tests/pkd/pkd\_daemon.h
- tests/pkd/pkd\_hello.c
- tests/pkd/pkd\_keyutil.c
- tests/pkd/pkd\_keyutil.h
- tests/pkd/pkd\_util.c
- tests/pkd/pkd\_util.h

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Files: src/channels.c

- src/channels1.c
- src/gzip.c

src/known\_hosts.c  
src/misc.c  
src/options.c  
src/pki.c  
src/pki\_crypto.c  
src/pki\_gcrypt.c  
src/sftp.c

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Files: include/libssh/agent.h  
include/libssh/options.h  
src/agent.c  
src/callbacks.c  
src/config.c  
tests/client/torture\_forward.c  
tests/client/torture\_request\_env.c  
tests/torture.c  
tests/torture.c  
tests/torture.h

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src/curve25519.c

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src/scp.c

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Files: src/match.c

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Files: include/libssh/knownhosts.h

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Files: cmake/Modules/DefineCMakeDefaults.cmake

cmake/Modules/DefineCompilerFlags.cmake

cmake/Modules/DefineInstallationPaths.cmake

cmake/Modules/DefinePlatformDefaults.cmake

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Files: cmake/Modules/AddCMockaTest.cmake

cmake/Modules/CheckCCompilerFlagSSP.cmake

cmake/Modules/FindArgp.cmake

cmake/Modules/FindCMocka.cmake

cmake/Modules/FindGCrypt.cmake

cmake/Modules/FindGSSAPI.cmake

cmake/Modules/FindNaCl.cmake

cmake/Modules/FindNSIS.cmake

cmake/Modules/MacroEnsureOutOfSourceBuild.cmake

cmake/Modules/UseDoxygen.cmake

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# 1.425 lvm2 2.03.07-1ubuntu1

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Version 2, June 1991

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## 1.426 markupsafe 1.1.0-1build2

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\* /opt/cola/permits/1128978950\_1612138213.64/0/markupsafe-1-1-0-orig-1-tar-gz/MarkupSafe-1.1.0/setup.py

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Metadata-Version: 1.2

Name: MarkupSafe

Version: 1.1.0

Summary: Safely add untrusted strings to HTML/XML markup.

Home-page: <https://www.palletsprojects.com/p/markupsafe/>

Author: Armin Ronacher

Author-email: [armin.ronacher@active-4.com](mailto:armin.ronacher@active-4.com)

Maintainer: Pallets Team

Maintainer-email: [contact@palletsprojects.com](mailto:contact@palletsprojects.com)

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Project-URL: Documentation, <https://markupsafe.palletsprojects.com/>

Project-URL: Code, <https://github.com/pallets/markupsafe>

Project-URL: Issue tracker, <https://github.com/pallets/markupsafe/issues>

Description: MarkupSafe

=====

MarkupSafe implements a text object that escapes characters so it is safe to use in HTML and XML. Characters that have special meanings are replaced so that they display as the actual characters. This mitigates injection attacks, meaning untrusted user input can safely be displayed on a page.

Installing

-----

Install and update using `pip`\_:

.. code-block:: text

```
pip install -U MarkupSafe
```

.. \_pip: <https://pip.pypa.io/en/stable/quickstart/>

## Examples

-----

.. code-block:: pycon

```
>>> from markupsafe import Markup, escape
>>> # escape replaces special characters and wraps in Markup
>>> escape('<script>alert(document.cookie);</script>')
Markup(u'&lt;script&gt;alert(document.cookie);&lt;/script&gt;')
>>> # wrap in Markup to mark text "safe" and prevent escaping
>>> Markup('<strong>Hello</strong>')
Markup('<strong>hello</strong>')
>>> escape(Markup('<strong>Hello</strong>'))
Markup('<strong>hello</strong>')
>>> # Markup is a text subclass (str on Python 3, unicode on Python 2)
>>> # methods and operators escape their arguments
>>> template = Markup("Hello <em>%s</em>")
>>> template % "'World'"
Markup('Hello <em>&#34;World&#34;</em>')
```

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-----

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- \* Releases: <https://pypi.org/project/MarkupSafe/>
- \* Code: <https://github.com/pallets/markupsafe>

- \* Issue tracker: <https://github.com/pallets/markupsafe/issues>
- \* Test status:
  - \* Linux, Mac: <https://travis-ci.org/pallets/markupsafe>
  - \* Windows: <https://ci.appveyor.com/project/pallets/markupsafe>
- \* Test coverage: <https://codecov.io/gh/pallets/markupsafe>

Platform: UNKNOWN

Classifier: Development Status :: 5 - Production/Stable

Classifier: Environment :: Web Environment

Classifier: Intended Audience :: Developers

Classifier: License :: OSI Approved :: BSD License

Classifier: Operating System :: OS Independent

Classifier: Programming Language :: Python

Classifier: Programming Language :: Python :: 2

Classifier: Programming Language :: Python :: 2.7

Classifier: Programming Language :: Python :: 3

Classifier: Programming Language :: Python :: 3.4

Classifier: Programming Language :: Python :: 3.5

Classifier: Programming Language :: Python :: 3.6

Classifier: Programming Language :: Python :: 3.7

Classifier: Topic :: Internet :: WWW/HTTP :: Dynamic Content

Classifier: Topic :: Software Development :: Libraries :: Python Modules

Classifier: Topic :: Text Processing :: Markup :: HTML

Requires-Python: >=2.7,!=3.0.\*,!=3.1.\*,!=3.2.\*,!=3.3.\*

Found in path(s):

\* /opt/cola/permits/1128978950\_1612138213.64/0/markupsafe-1-1-0-orig-1-tar-gz/MarkupSafe-1.1.0/src/MarkupSafe.egg-info/PKG-INFO

\* /opt/cola/permits/1128978950\_1612138213.64/0/markupsafe-1-1-0-orig-1-tar-gz/MarkupSafe-1.1.0/PKG-INFO

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\* /opt/cola/permits/1128978950\_1612138213.64/0/markupsafe-1-1-0-orig-1-tar-gz/MarkupSafe-1.1.0/src/markupsafe/\_compat.py

\* /opt/cola/permits/1128978950\_1612138213.64/0/markupsafe-1-1-0-orig-1-tar-gz/MarkupSafe-1.1.0/src/markupsafe/\_\_init\_\_.py

\* /opt/cola/permits/1128978950\_1612138213.64/0/markupsafe-1-1-0-orig-1-tar-gz/MarkupSafe-1.1.0/src/markupsafe/\_native.py

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/\*\*

\* markupsafe.\_speedups

\* ~~~~~

\*

\* C implementation of escaping for better performance. Used instead of

\* the native Python implementation when compiled.

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Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception,

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That's all there is to it!  
Here is a list of the main contributors to lm-sensors version 3.

- \* Frodo Looijaard  
Original author of libsensors, sensors-detect, sensors and isadump.
- \* Merlin Hughes  
Original author of sensord.
- \* Bob Schlaermann  
Dynamic chip feature detection (a.k.a. generic chip support) in libsensors and sensors.
- \* Mark M. Hoffman

Many improvements to the libsensors configuration file scanner.  
\* Jean Delvare  
New libsensors API, and migration of sensors and sensord thereto.  
Many optimizations in libsensors and sensors.  
Configuration file converter.  
Rewrite of sensors-detect.  
Support for multiple configuration files in libsensors.

## 1.428 libedit 3.1-20191231-1

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## 1.429 libcap-ng 0.7.9 2.1build1

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