

1 Apache2::Const - Perl Interface for Apache Constants

1.1 Synopsis

```
# make the constants available but don't import them
use Apache2::Const -compile => qw(constant names ...);

# w/o the => syntax sugar
use Apache2::Const ("-compile", qw(constant names ...));

# compile and import the constants
use Apache2::Const qw(constant names ...);
```

1.2 Description

This package contains constants specific to Apache features.

`mod_perl 2.0` comes with several hundreds of constants, which you don't want to make available to your Perl code by default, due to CPU and memory overhead. Therefore when you want to use a certain constant you need to explicitly ask to make it available.

For example, the code:

```
use Apache2::Const -compile => qw(FORBIDDEN OK);
```

makes the constants `Apache2::Const::FORBIDDEN` and `Apache2::Const::OK` available to your code, but they aren't imported. In which case you need to use a fully qualified constants, as in:

```
return Apache2::Const::OK;
```

If you drop the argument `-compile` and write:

```
use Apache2::Const qw(FORBIDDEN OK);
```

Then both constants are imported into your code's namespace and can be used standalone like so:

```
return OK;
```

Both, due to the extra memory requirement, when importing symbols, and since there are constants in other namespaces (e.g., `APR::` and `ModPerl::`, and non-`mod_perl` modules) which may contain the same names, it's not recommended to import constants. I.e. you want to use the `-compile` construct.

Finally, in Perl `=>` is almost the same as the comma operator. It can be used as syntax sugar making it more clear when there is a key-value relation between two arguments, and also it automatically parses its lefthand argument (the key) as a string, so you don't need to quote it.

If you don't want to use that syntax, instead of writing:

```
use Apache2::Const -compile => qw(FORBIDDEN OK);
```

you could write:

```
use Apache2::Const "-compile", qw(FORBIDDEN OK);
```

and for parentheses-lovers:

```
use Apache2::Const ("-compile", qw(FORBIDDEN OK));
```

1.3 Constants

1.3.1 *:cmd_how*

```
use Apache2::Const -compile => qw(:cmd_how);
```

The `:cmd_how` constants group is used in `Apache2::Module::add()` and `$cmds->args_how`.

1.3.1.1 **Apache2::Const::FLAG**

One of *On* or *Off* (full description).

- **since: 2.0.00**

1.3.1.2 **Apache2::Const::ITERATE**

One argument, occurring multiple times (full description).

- **since: 2.0.00**

1.3.1.3 **Apache2::Const::ITERATE2**

Two arguments, the second occurs multiple times (full description).

- **since: 2.0.00**

1.3.1.4 **Apache2::Const::NO_ARGS**

No arguments at all (full description).

- **since: 2.0.00**

1.3.1.5 **Apache2::Const::RAW_ARGS**

The command will parse the command line itself (full description).

- **since: 2.0.00**

1.3.1.6 Apache2::Const::TAKE1

One argument only (full description).

- **since: 2.0.00**

1.3.1.7 Apache2::Const::TAKE12

One or two arguments (full description).

- **since: 2.0.00**

1.3.1.8 Apache2::Const::TAKE123

One, two or three arguments (full description).

- **since: 2.0.00**

1.3.1.9 Apache2::Const::TAKE13

One or three arguments (full description).

- **since: 2.0.00**

1.3.1.10 Apache2::Const::TAKE2

Two arguments (full description).

- **since: 2.0.00**

1.3.1.11 Apache2::Const::TAKE23

Two or three arguments (full description).

- **since: 2.0.00**

1.3.1.12 Apache2::Const::TAKE3

Three arguments (full description).

- **since: 2.0.00**

1.3.2 :common

```
use Apache2::Const -compile => qw(:common);
```

The :common group is for XXX constants.

1.3.2.1 Apache2::Const::AUTH_REQUIRED

- since: 2.0.00

1.3.2.2 Apache2::Const::DECLINED

- since: 2.0.00

1.3.2.3 Apache2::Const::DONE

- since: 2.0.00

1.3.2.4 Apache2::Const::FORBIDDEN

- since: 2.0.00

1.3.2.5 Apache2::Const::NOT_FOUND

- since: 2.0.00

1.3.2.6 Apache2::Const::OK

- since: 2.0.00

1.3.2.7 Apache2::Const::REDIRECT

- since: 2.0.00

1.3.2.8 Apache2::Const::SERVER_ERROR

- since: 2.0.00

1.3.3 *:config*

```
use Apache2::Const -compile => qw(:config);
```

The `:config` group is for XXX constants.

1.3.3.1 Apache2::Const::DECLINE_CMD

- since: 2.0.00

1.3.4 *:conn_keepalive*

```
use Apache2::Const -compile => qw(:conn_keepalive);
```

The `:conn_keepalive` constants group is used by the `($c->keepalive)` method.

1.3.4.1 Apache2::Const::CONN_CLOSE

The connection will be closed at the end of the current HTTP request.

- **since: 2.0.00**

1.3.4.2 Apache2::Const::CONN_KEEPALIVE

The connection will be kept alive at the end of the current HTTP request.

- **since: 2.0.00**

1.3.4.3 Apache2::Const::CONN_UNKNOWN

The connection is at an unknown state, e.g., initialized but not open yet.

- **since: 2.0.00**

1.3.5 :context

```
use Apache2::Const -compile => qw(:context);
```

The `:context` group is used by the `$parms->check_cmd_context` method.

1.3.5.1 Apache2::Const::NOT_IN_VIRTUALHOST

The command is not in a `<VirtualHost>` block.

- **since: 2.0.00**

1.3.5.2 Apache2::Const::NOT_IN_LIMIT

The command is not in a `<Limit>` block.

- **since: 2.0.00**

1.3.5.3 Apache2::Const::NOT_IN_DIRECTORY

The command is not in a `<Directory>` block.

- **since: 2.0.00**

1.3.5.4 Apache2::Const::NOT_IN_LOCATION

The command is not in a <Location>/<LocationMatch> block.

- since: 2.0.00

1.3.5.5 Apache2::Const::NOT_IN_FILES

The command is not in a <Files>/<FilesMatch> block.

- since: 2.0.00

1.3.5.6 Apache2::Const::NOT_IN_DIR_LOC_FILE

The command is not in a <Files>/<FilesMatch>, <Location>/<LocationMatch> or <Directory> block.

- since: 2.0.00

1.3.5.7 Apache2::Const::GLOBAL_ONLY

The directive appears outside of any container directives.

- since: 2.0.00

1.3.6 :filter_type

```
use Apache2::Const -compile => qw(:filter_type);
```

The :filter_type group is for XXX constants.

1.3.6.1 Apache2::Const::FTYPE_CONNECTION

- since: 2.0.00

1.3.6.2 Apache2::Const::FTYPE_CONTENT_SET

- since: 2.0.00

1.3.6.3 Apache2::Const::FTYPE_NETWORK

- since: 2.0.00

1.3.6.4 Apache2::Const::FTYPE_PROTOCOL

- since: 2.0.00

1.3.6.5 Apache2::Const::FTYPE_RESOURCE

- since: 2.0.00

1.3.6.6 Apache2::Const::FTYPE_TRANSCODE

- since: 2.0.00

1.3.7 :http

```
use Apache2::Const -compile => qw(:http);
```

The :http group is for XXX constants.

1.3.7.1 Apache2::Const::HTTP_ACCEPTED

- since: 2.0.00

1.3.7.2 Apache2::Const::HTTP_BAD_GATEWAY

- since: 2.0.00

1.3.7.3 Apache2::Const::HTTP_BAD_REQUEST

- since: 2.0.00

1.3.7.4 Apache2::Const::HTTP_CONFLICT

- since: 2.0.00

1.3.7.5 Apache2::Const::HTTP_CONTINUE

- since: 2.0.00

1.3.7.6 Apache2::Const::HTTP_CREATED

- since: 2.0.00

1.3.7.7 Apache2::Const::HTTP_EXPECTATION_FAILED

- since: 2.0.00

1.3.7.8 Apache2::Const::HTTP_FAILED_DEPENDENCY

- since: 2.0.00

1.3.7.9 Apache2::Const::HTTP_FORBIDDEN

- since: 2.0.00

1.3.7.10 Apache2::Const::HTTP_GATEWAY_TIME_OUT

- since: 2.0.00

1.3.7.11 Apache2::Const::HTTP_GONE

- since: 2.0.00

1.3.7.12 Apache2::Const::HTTP_INSUFFICIENT_STORAGE

- since: 2.0.00

1.3.7.13 Apache2::Const::HTTP_INTERNAL_SERVER_ERROR

- since: 2.0.00

1.3.7.14 Apache2::Const::HTTP_LENGTH_REQUIRED

- since: 2.0.00

1.3.7.15 Apache2::Const::HTTP_LOCKED

- since: 2.0.00

1.3.7.16 Apache2::Const::HTTP_METHOD_NOT_ALLOWED

- since: 2.0.00

1.3.7.17 Apache2::Const::HTTP_MOVED_PERMANENTLY

- since: 2.0.00

1.3.7.18 Apache2::Const::HTTP_MOVED_TEMPORARILY

- since: 2.0.00

1.3.7.19 Apache2::Const::HTTP_MULTIPLE_CHOICES

- since: 2.0.00

1.3.7.20 Apache2::Const::HTTP_MULTI_STATUS

- since: 2.0.00

1.3.7.21 Apache2::Const::HTTP_NON_AUTHORITATIVE

- since: 2.0.00

1.3.7.22 Apache2::Const::HTTP_NOT_ACCEPTABLE

- since: 2.0.00

1.3.7.23 Apache2::Const::HTTP_NOT_EXTENDED

- since: 2.0.00

1.3.7.24 Apache2::Const::HTTP_NOT_FOUND

- since: 2.0.00

1.3.7.25 Apache2::Const::HTTP_NOT_IMPLEMENTED

- since: 2.0.00

1.3.7.26 Apache2::Const::HTTP_NOT_MODIFIED

- since: 2.0.00

1.3.7.27 Apache2::Const::HTTP_NO_CONTENT

- since: 2.0.00

1.3.7.28 Apache2::Const::HTTP_OK

- since: 2.0.00

1.3.7.29 Apache2::Const::HTTP_PARTIAL_CONTENT

- since: 2.0.00

1.3.7.30 Apache2::Const::HTTP_PAYMENT_REQUIRED

- since: 2.0.00

1.3.7.31 Apache2::Const::HTTP_PRECONDITION_FAILED

- since: 2.0.00

1.3.7.32 Apache2::Const::HTTP_PROCESSING

- since: 2.0.00

1.3.7.33 Apache2::Const::HTTP_PROXY_AUTHENTICATION_REQUIRED

- since: 2.0.00

1.3.7.34 Apache2::Const::HTTP_RANGE_NOT_SATISFIABLE

- since: 2.0.00

1.3.7.35 Apache2::Const::HTTP_REQUEST_ENTITY_TOO_LARGE

- since: 2.0.00

1.3.7.36 Apache2::Const::HTTP_REQUEST_TIME_OUT

- since: 2.0.00

1.3.7.37 Apache2::Const::HTTP_REQUEST_URI_TOO_LARGE

- since: 2.0.00

1.3.7.38 Apache2::Const::HTTP_RESET_CONTENT

- since: 2.0.00

1.3.7.39 Apache2::Const::HTTP_SEE_OTHER

- since: 2.0.00

1.3.7.40 Apache2::Const::HTTP_SERVICE_UNAVAILABLE

- since: 2.0.00

1.3.7.41 Apache2::Const::HTTP_SWITCHING_PROTOCOLS

- since: 2.0.00

1.3.7.42 `Apache2::Const::HTTP_TEMPORARY_REDIRECT`

- since: 2.0.00

1.3.7.43 `Apache2::Const::HTTP_UNAUTHORIZED`

- since: 2.0.00

1.3.7.44 `Apache2::Const::HTTP_UNPROCESSABLE_ENTITY`

- since: 2.0.00

1.3.7.45 `Apache2::Const::HTTP_UNSUPPORTED_MEDIA_TYPE`

- since: 2.0.00

1.3.7.46 `Apache2::Const::HTTP_UPGRADE_REQUIRED`

- since: 2.0.00

1.3.7.47 `Apache2::Const::HTTP_USE_PROXY`

- since: 2.0.00

1.3.7.48 `Apache2::Const::HTTP_VARIANT_ALSO_VARIES`

- since: 2.0.00

1.3.8 *:input_mode*

```
use Apache2::Const -compile => qw(:input_mode);
```

The `:input_mode` group is used by `get_brigade()`.

1.3.8.1 `Apache2::Const::MODE_EATCRLF`

- since: 2.0.00

See `Apache2::Filter::get_brigade()`.

1.3.8.2 `Apache2::Const::MODE_EXHAUSTIVE`

- since: 2.0.00

See `Apache2::Filter::get_brigade()`.

1.3.8.3 Apache2::Const::MODE_GETLINE

- since: 2.0.00

See Apache2::Filter::get_brigade().

1.3.8.4 Apache2::Const::MODE_INIT

- since: 2.0.00

See Apache2::Filter::get_brigade().

1.3.8.5 Apache2::Const::MODE_READBYTES

- since: 2.0.00

See Apache2::Filter::get_brigade().

1.3.8.6 Apache2::Const::MODE_SPECULATIVE

- since: 2.0.00

See Apache2::Filter::get_brigade().

1.3.9 :log

```
use Apache2::Const -compile => qw(:log);
```

The :log group is for constants used by Apache2::Log.

1.3.9.1 Apache2::Const::LOG_ALERT

- since: 2.0.00

See Apache2::Log.

1.3.9.2 Apache2::Const::LOG_CRIT

- since: 2.0.00

See Apache2::Log.

1.3.9.3 Apache2::Const::LOG_DEBUG

- since: 2.0.00

See Apache2::Log.

1.3.9.4 Apache2::Const::LOG_EMERG

- since: 2.0.00

See Apache2::Log.

1.3.9.5 Apache2::Const::LOG_ERR

- since: 2.0.00

See Apache2::Log.

1.3.9.6 Apache2::Const::LOG_INFO

- since: 2.0.00

See Apache2::Log.

1.3.9.7 Apache2::Const::LOG_LEVELMASK

- since: 2.0.00

See Apache2::Log.

1.3.9.8 Apache2::Const::LOG_NOTICE

- since: 2.0.00

See Apache2::Log.

1.3.9.9 Apache2::Const::LOG_STARTUP

- since: 2.0.00

See Apache2::Log.

1.3.9.10 Apache2::Const::LOG_TOCLIENT

- since: 2.0.00

See Apache2::Log.

1.3.9.11 Apache2::Const::LOG_WARNING

- since: 2.0.00

See Apache2::Log.

1.3.10 :methods

```
use Apache2::Const -compile => qw(:methods);
```

The `:methods` constants group is used in conjunction with `$r->method_number`.

1.3.10.1 Apache2::Const::METHODS

- since: 2.0.00

1.3.10.2 Apache2::Const::M_BASELINE_CONTROL

- since: 2.0.00

1.3.10.3 Apache2::Const::M_CHECKIN

- since: 2.0.00

1.3.10.4 Apache2::Const::M_CHECKOUT

- since: 2.0.00

1.3.10.5 Apache2::Const::M_CONNECT

- since: 2.0.00

1.3.10.6 Apache2::Const::M_COPY

- since: 2.0.00

1.3.10.7 Apache2::Const::M_DELETE

- since: 2.0.00

1.3.10.8 Apache2::Const::M_GET

- since: 2.0.00

corresponds to the HTTP GET method

1.3.10.9 Apache2::Const::M_INVALID

- since: 2.0.00

1.3.10.10 Apache2::Const::M_LABEL

- since: 2.0.00

1.3.10.11 Apache2::Const::M_LOCK

- since: 2.0.00

1.3.10.12 Apache2::Const::M_MERGE

- since: 2.0.00

1.3.10.13 Apache2::Const::M_MKACTIVITY

- since: 2.0.00

1.3.10.14 Apache2::Const::M_MKCOL

- since: 2.0.00

1.3.10.15 Apache2::Const::M_MKWORKSPACE

- since: 2.0.00

1.3.10.16 Apache2::Const::M_MOVE

- since: 2.0.00

1.3.10.17 Apache2::Const::M_OPTIONS

- since: 2.0.00

1.3.10.18 Apache2::Const::M_PATCH

- since: 2.0.00

1.3.10.19 Apache2::Const::M_POST

- since: 2.0.00

corresponds to the HTTP POST method

1.3.10.20 Apache2::Const::M_PROPFIND

- since: 2.0.00

1.3.10.21 Apache2::Const::M_PROPPATCH

- since: 2.0.00

1.3.10.22 Apache2::Const::M_PUT

- since: 2.0.00

corresponds to the HTTP PUT method

1.3.10.23 Apache2::Const::M_REPORT

- since: 2.0.00

1.3.10.24 Apache2::Const::M_TRACE

- since: 2.0.00

1.3.10.25 Apache2::Const::M_UNCHECKOUT

- since: 2.0.00

1.3.10.26 Apache2::Const::M_UNLOCK

- since: 2.0.00

1.3.10.27 Apache2::Const::M_UPDATE

- since: 2.0.00

1.3.10.28 Apache2::Const::M_VERSION_CONTROL

- since: 2.0.00

1.3.11 :mpmq

```
use Apache2::Const -compile => qw(:mpmq);
```

The :mpmq group is for querying MPM properties.

1.3.11.1 Apache2::Const::MPMQ_NOT_SUPPORTED

- since: 2.0.00

1.3.11.2 Apache2::Const::MPMQ_STATIC

- since: 2.0.00

1.3.11.3 Apache2::Const::MPMQ_DYNAMIC

- since: 2.0.00

1.3.11.4 Apache2::Const::MPMQ_MAX_DAEMON_USED

- since: 2.0.00

1.3.11.5 Apache2::Const::MPMQ_IS_THREADED

- since: 2.0.00

1.3.11.6 Apache2::Const::MPMQ_IS_FORKED

- since: 2.0.00

1.3.11.7 Apache2::Const::MPMQ_HARD_LIMIT_DAEMONS

- since: 2.0.00

1.3.11.8 Apache2::Const::MPMQ_HARD_LIMIT_THREADS

- since: 2.0.00

1.3.11.9 Apache2::Const::MPMQ_MAX_THREADS

- since: 2.0.00

1.3.11.10 Apache2::Const::MPMQ_MIN_SPARE_DAEMONS

- since: 2.0.00

1.3.11.11 Apache2::Const::MPMQ_MIN_SPARE_THREADS

- since: 2.0.00

1.3.11.12 Apache2::Const::MPMQ_MAX_SPARE_DAEMONS

- since: 2.0.00

1.3.11.13 Apache2::Const::MPMQ_MAX_SPARE_THREADS

- since: 2.0.00

1.3.11.14 Apache2::Const::MPMQ_MAX_REQUESTS_DAEMON

- since: 2.0.00

1.3.11.15 Apache2::Const::MPMQ_MAX_DAEMONS

- since: 2.0.00

1.3.12 *:options*

```
use Apache2::Const -compile => qw(:options);
```

The `:options` group contains constants corresponding to the `Options` configuration directive. For examples see: `$r->allow_options`.

1.3.12.1 Apache2::Const::OPT_ALL

- since: 2.0.00

1.3.12.2 Apache2::Const::OPT_EXECCGI

- since: 2.0.00

1.3.12.3 Apache2::Const::OPT_INCLUDES

- since: 2.0.00

1.3.12.4 Apache2::Const::OPT_INCNOEXEC

- since: 2.0.00

1.3.12.5 Apache2::Const::OPT_INDEXES

- since: 2.0.00

1.3.12.6 Apache2::Const::OPT_MULTI

- since: 2.0.00

1.3.12.7 `Apache2::Const::OPT_NONE`

- since: 2.0.00

1.3.12.8 `Apache2::Const::OPT_SYM_LINKS`

- since: 2.0.00

1.3.12.9 `Apache2::Const::OPT_SYM_OWNER`

- since: 2.0.00

1.3.12.10 `Apache2::Const::OPT_UNSET`

- since: 2.0.00

1.3.13 `:override`

```
use Apache2::Const -compile => qw(:override);
```

The `:override` group contains constants corresponding to the `AllowOverride` configuration directive. For examples see: `$r->allow_options`.

1.3.13.1 `Apache2::Const::ACCESS_CONF`

**.conf* inside `<Directory>` or `<Location>`

- since: 2.0.00

1.3.13.2 `Apache2::Const::EXEC_ON_READ`

Force directive to execute a command which would modify the configuration (like including another file, or `IFModule`)

- since: 2.0.00

1.3.13.3 `Apache2::Const::OR_ALL`

`Apache2::Const::OR_LIMIT` | `Apache2::Const::OR_OPTIONS` |
`Apache2::Const::OR_FILEINFO` | `Apache2::Const::OR_AUTHCFG` |
`Apache2::Const::OR_INDEXES`

- since: 2.0.00

1.3.13.4 Apache2::Const::OR_AUTHCFG

*.conf inside <Directory> or <Location> and *.htaccess* when AllowOverride AuthConfig

- since: 2.0.00

1.3.13.5 Apache2::Const::OR_FILEINFO

*.conf anywhere and *.htaccess* when AllowOverride FileInfo

- since: 2.0.00

1.3.13.6 Apache2::Const::OR_INDEXES

*.conf anywhere and *.htaccess* when AllowOverride Indexes

- since: 2.0.00

1.3.13.7 Apache2::Const::OR_LIMIT

*.conf inside <Directory> or <Location> and *.htaccess* when AllowOverride Limit

- since: 2.0.00

1.3.13.8 Apache2::Const::OR_NONE

*.conf is not available anywhere in this override

- since: 2.0.00

1.3.13.9 Apache2::Const::OR_OPTIONS

*.conf anywhere and *.htaccess* when AllowOverride Options

- since: 2.0.00

1.3.13.10 Apache2::Const::OR_UNSET

Unset a directive (in Allow)

- since: 2.0.00

1.3.13.11 Apache2::Const::RSRC_CONF

*.conf outside <Directory> or <Location>

- since: 2.0.00

1.3.14 :platform

```
use Apache2::Const -compile => qw(:platform);
```

The `:platform` group is for constants that may differ from OS to OS.

1.3.14.1 Apache2::Const::CRLF

- since: 2.0.00

1.3.14.2 Apache2::Const::CR

- since: 2.0.00

1.3.14.3 Apache2::Const::LF

- since: 2.0.00

1.3.15 :remotehost

```
use Apache2::Const -compile => qw(:remotehost);
```

The `:remotehost` constants group is used by the `$c->get_remote_host` method.

1.3.15.1 Apache2::Const::REMOTE_DOUBLE_REV

- since: 2.0.00

1.3.15.2 Apache2::Const::REMOTE_HOST

- since: 2.0.00

1.3.15.3 Apache2::Const::REMOTE_NAME

- since: 2.0.00

1.3.15.4 Apache2::Const::REMOTE_NOLOOKUP

- since: 2.0.00

1.3.16 :satisfy

```
use Apache2::Const -compile => qw(:satisfy);
```

The `:satisfy` constants group is used in conjunction with `$r->satisfies`.

1.3.16.1 Apache2::Const::SATISFY_ALL

- since: 2.0.00

All of the requirements must be met.

1.3.16.2 Apache2::Const::SATISFY_ANY

- since: 2.0.00

any of the requirements must be met.

1.3.16.3 Apache2::Const::SATISFY_NOSPEC

- since: 2.0.00

There are no applicable satisfy lines

1.3.17 :types

```
use Apache2::Const -compile => qw(:types);
```

The :types group is for XXX constants.

1.3.17.1 Apache2::Const::DIR_MAGIC_TYPE

- since: 2.0.00

1.3.18 :proxy

```
use Apache2::Const -compile => qw(:proxy);
```

The :proxy constants group is used in conjunction with `$r->proxyreq`.

1.3.18.1 Apache2::Const::PROXYREQ_NONE

- since: 2.0.2

1.3.18.2 Apache2::Const::PROXYREQ_PROXY

- since: 2.0.2

1.3.18.3 Apache2::Const::PROXYREQ_REVERSE

- since: 2.0.2

1.4 See Also

1.3.18.4 Apache2::Const::PROXYREQ_RESPONSE

- since: 2.0.5

1.4 See Also

mod_perl 2.0 documentation.

HTTP Status Codes.

1.5 Copyright

mod_perl 2.0 and its core modules are copyrighted under The Apache Software License, Version 2.0.

1.6 Authors

The mod_perl development team and numerous contributors.

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