

NAME

CPANPLUS::Config - configuration defaults and heuristics for CPANPLUS

SYNOPSIS

```
### conf object via CPANPLUS::Backend;
$cb    = CPANPLUS::Backend->new;
$conf  = $cb->configure_object;

### or as a standalone object
$conf  = CPANPLUS::Configure->new;

### values in 'conf' section
$verbose = $conf->get_conf( 'verbose' );
$conf->set_conf( verbose => 1 );

### values in 'program' section
$editor  = $conf->get_program( 'editor' );
$conf->set_program( editor => '/bin/vi' );
```

DESCRIPTION

This module contains defaults and heuristics for configuration information for CPANPLUS. To change any of these values, please see the documentation in `CPANPLUS::Configure`.

Below you'll find a list of configuration types and keys, and their meaning.

CONFIGURATION

Section 'conf'

hosts

An array ref containing hosts entries to be queried for packages.

An example entry would like this:

```
{    'scheme' => 'ftp',
    'path'   => '/pub/CPAN/',
    'host'   => 'ftp.cpan.org'
},
```

allow_build_interactivity

Boolean flag to indicate whether 'perl Makefile.PL' and similar are run interactively or not. Defaults to 'true'.

allow_unknown_prereqs

Boolean flag to indicate that unresolvable prereqs are acceptable. If `true` then only warnings will be issued (the behaviour before 0.9114) when a module is unresolvable from any our sources (CPAN and/or `custom_sources`). If `false` then an unresolvable prereq will fail during the `prepare` stage of distribution installation. Defaults to `true`.

base

The directory CPANPLUS keeps all its build and state information in. Defaults to `~/cpanplus`. If `File::HomeDir` is available, that will be used to work out your `HOME` directory. This may be overridden by setting the `PERL5_CPANPLUS_HOME` environment variable, see *CPANPLUS::Config::HomeEnv* for more details.

buildflags

Any flags to be passed to 'perl Build.PL'. See `perldoc Module::Build` for details. Defaults to an empty string.

`cpantest`

Boolean flag to indicate whether or not to mail test results of module installations to `http://testers.cpan.org`. Defaults to 'false'.

`cpantest_mx`

String holding an explicit mailserver to use when sending out emails for `http://testers.cpan.org`. An empty string will use your system settings. Defaults to an empty string.

`debug`

Boolean flag to enable or disable extensive debuggging information. Defaults to 'false'.

`dist_type`

Default distribution type to use when building packages. See `cpan2dist` or `CPANPLUS::Dist` for details. An empty string will not use any package building software. Defaults to an empty string.

`email`

Email address to use for anonymous ftp access and as `from` address when sending emails. Defaults to an `example.com` address.

`enable_custom_sources`

Boolean flag indicating whether custom sources should be enabled or not. See the `CUSTOM MODULE SOURCES` in `CPANPLUS::Backend` for details on how to use them.
Defaults to `true`

`extractdir`

String containing the directory where fetched archives should be extracted. An empty string will use a directory under your `base` directory. Defaults to an empty string.

`fetchdir`

String containing the directory where fetched archives should be stored. An empty string will use a directory under your `base` directory. Defaults to an empty string.

`flush`

Boolean indicating whether build failures, cache dirs etc should be flushed after every operation or not. Defaults to 'true'.

`force`

Boolean indicating whether files should be forcefully overwritten if they exist, modules should be installed when they fail tests, etc. Defaults to 'false'.

`histfile`

A string containing the history filename of the CPANPLUS readline instance.

`lib`

An array ref holding directories to be added to `@INC` when CPANPLUS starts up. Defaults to an empty array reference.

`makeflags`

A string holding flags that will be passed to the `make` program when invoked. Defaults to an empty string.

makemakerflags

A string holding flags that will be passed to `perl Makefile.PL` when invoked. Defaults to an empty string.

md5

A boolean indicating whether or not sha256 checks should be done when an archive is fetched. Defaults to 'true' if you have `Digest::SHA` installed, 'false' otherwise.

no_update

A boolean indicating whether or not `CPANPLUS`' source files should be updated or not. Defaults to 'false'.

passive

A boolean indicating whether or not to use passive ftp connections. Defaults to 'true'.

prefer_bin

A boolean indicating whether or not to prefer command line programs over perl modules. Defaults to 'false' unless you do not have `Compress::Zlib` installed (as that would mean we could not extract `.tar.gz` files)

prefer_makefile

A boolean indicating whether or not prefer a `Makefile.PL` over a `Build.PL` file if both are present. Defaults to 'true', unless the perl version is at least 5.10.1 or appropriate versions of `Module::Build` and `CPANPLUS::Dist::Build` are available.

prereqs

A digit indicating what to do when a package you are installing has a prerequisite. Options are:

- 0 Do not install
- 1 Install
- 2 Ask
- 3 Ignore (dangerous, install will probably fail!)

The default is to ask.

shell

A string holding the shell class you wish to start up when starting `CPANPLUS` in interactive mode.

Defaults to `CPANPLUS::Shell::Default`, the default `CPANPLUS` shell.

show_startup_tip

A boolean indicating whether or not to show start up tips in the interactive shell. Defaults to 'true'.

signature

A boolean indicating whether or not check signatures if packages are signed. Defaults to 'true' if you have `gpg` or `Crypt::OpenPGP` installed, 'false' otherwise.

skiptest

A boolean indicating whether or not to skip tests when installing modules. Defaults to 'false'.

storable

A boolean indicating whether or not to use `Storable` to write compiled source file information to disk. This makes for faster startup and look up times, but takes extra disk space. Defaults to 'true' if you have `Storable` installed and 'false' if you don't.

timeout

Digit indicating the time before a fetch request times out (in seconds). Defaults to 300.

verbose

A boolean indicating whether or not CPANPLUS runs in verbose mode. Defaults to 'true' if you have the environment variable PERL5_CPANPLUS_VERBOSE set to true, 'false' otherwise.

It is recommended you run with verbose enabled, but it is disabled for historical reasons.

write_install_log

A boolean indicating whether or not to write install logs after installing a module using the interactive shell. Defaults to 'true'.

source_engine

Class to use as the source engine, which is generally a subclass of CPANPLUS::Internals::Source. Default to CPANPLUS::Internals::Source::Memory.

cpantest_reporter_args

A hashref of key => value pairs that are passed to the constructor of Test::Reporter. If you'd want to enable TLS for example, you'd set it to:

```
{ transport      => 'Net::SMTP::TLS',  
  transport_args => [ User => 'Joe', Password => '123' ],  
}
```

Section 'program'

editor

A string holding the path to your editor of choice. Defaults to your \$ENV{EDITOR}, \$ENV{VISUAL}, 'vi' or 'pico' programs, in that order.

make

A string holding the path to your make binary. Looks for the make program used to build perl or failing that, a make in your path.

pager

A string holding the path to your pager of choice. Defaults to your \$ENV{PAGER}, 'less' or 'more' programs, in that order.

shell

A string holding the path to your login shell of choice. Defaults to your \$ENV{SHELL} setting, or \$ENV{COMSPEC} on Windows.

sudo

A string holding the path to your sudo binary if your install path requires super user permissions. Looks for sudo in your path, or remains empty if you do not require super user permissions to install.

perlwrapper**DEPRECATED**

A string holding the path to the cpanp-run-perl utility bundled with CPANPLUS, which is used to enable autoflushing in spawned processes.

BUG REPORTS

Please report bugs or other issues to <bug-cpanplus@rt.cpan.org>.

AUTHOR

This module by Jos Boumans <kane@cpan.org>.

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SEE ALSO

CPANPLUS::Backend, *CPANPLUS::Configure::Setup*, *CPANPLUS::Configure*