

NAME

perl5121delta - what is new for perl v5.12.1

DESCRIPTION

This document describes differences between the 5.12.0 release and the 5.12.1 release.

If you are upgrading from an earlier release such as 5.10.1, first read *perl5120delta*, which describes differences between 5.10.1 and 5.12.0.

Incompatible Changes

There are no changes intentionally incompatible with 5.12.0. If any incompatibilities with 5.12.0 exist, they are bugs. Please report them.

Core Enhancements

Other than the bug fixes listed below, there should be no user-visible changes to the core language in this release.

Modules and Pragmata

Pragmata Changes

- We fixed exporting of `is_strict` and `is_lax` from *version*.
These were being exported with a wrapper that treated them as method calls, which caused them to fail. They are just functions, are documented as such, and should never be subclassed, so this patch just exports them directly as functions without the wrapper.

Updated Modules

- We upgraded *CGI.pm* to version 3.49 to incorporate fixes for regressions introduced in the release we shipped with Perl 5.12.0.
- We upgraded *Pod::Simple* to version 3.14 to get an improvement to `\C\<\>\>` parsing.
- We made a small fix to the *CPANPLUS* test suite to fix an occasional spurious test failure.
- We upgraded *Safe* to version 2.27 to wrap coderefs returned by `reval()` and `rdo()`.

Changes to Existing Documentation

- We added the new maintenance release policy to *perlpolicy.pod*
- We've clarified the multiple-angle-bracket construct in the spec for POD in *perlpodspec*
- We added a missing explanation for a warning about `:=` to *perldiag.pod*
- We removed a false claim in *perlunitut* that all text strings are Unicode strings in Perl.
- We updated the Github mirror link in *perlrepository* to `mirrors/perl`, not `github/perl`
- We fixed a minor error in *perl5114delta.pod*.
- We replaced a mention of the now-obsolete *Switch.pm* with *given/when*.
- We improved documentation about `$sitelibexp/sitecustomize.pl` in *perlrun*.
- We corrected *perlmodlib.pod* which had unintentionally omitted a number of modules.
- We updated the documentation for 'require' in *perlfunc.pod* relating to putting Perl code in `@INC`.
- We reinstated some erroneously-removed documentation about `quotemeta` in *perlfunc*.
- We fixed an *a2p* example in *perlutil.pod*.

- We filled in a blank in *perlport.pod* with the release date of Perl 5.12.
- We fixed broken links in a number of *perldelta* files.
- The documentation for *Carp.pm* incorrectly stated that the `$Carp::Verbose` variable makes `cluck` generate stack backtraces.
- We fixed a number of typos in *Pod::Functions*
- We improved documentation of case-changing functions in *perlfunc.pod*
- We corrected *perlgpl.pod* to contain the correct version of the GNU General Public License.

Testing

Testing Improvements

- *t/op/sselect.t* is now less prone to clock jitter during timing checks on Windows. `sleep()` time on Win32 may be rounded down to multiple of the clock tick interval.
- *lib/blib.t* and *lib/locale.t*. Fixes for test failures on Darwin/PPC
- *perl5db.t*. Fix for test failures when `Term::ReadLine::Gnu` is installed.

Installation and Configuration Improvements

Configuration improvements

- We updated *INSTALL* with notes about how to deal with broken *dbm.h* on OpenSUSE (and possibly other platforms)

Bug Fixes

- A bug in how we process filetest operations could cause a segfault. Filetests don't always expect an op on the stack, so we now use TOPs only if we're sure that we're not stat'ing the _ filehandle. This is indicated by `OPf_KIDS` (as checked in `ck_ftst`).
See also: <http://rt.perl.org/rt3/Public/Bug/Display.html?id=74542>
- When deparsing a nextstate op that has both a change of package (relative to the previous nextstate) and a label, the package declaration is now emitted first, because it is syntactically impermissible for a label to prefix a package declaration.
- *XSUB.h* now correctly redefines `fgets` under `PERL_IMPLICIT_SYS`
See also: <http://rt.cpan.org/Public/Bug/Display.html?id=55049>
- `utf8::is_utf8` now respects `GMAGIC` (e.g. `$1`)
- XS code using `fputc()` or `fputs()`: on Windows could cause an error due to their arguments being swapped.
See also: <http://rt.perl.org/rt3/Public/Bug/Display.html?id=72704>
- We fixed a small bug in `lex_stuff_pvn()` that caused spurious syntax errors in an obscure situation. It happened when stuffing was performed on the last line of a file and the line ended with a statement that lacked a terminating semicolon.
See also: <http://rt.perl.org/rt3/Public/Bug/Display.html?id=74006>
- We fixed a bug that could cause `\N{}` constructs followed by a single `.` to be parsed incorrectly.
See also: <http://rt.perl.org/rt3/Public/Bug/Display.html?id=74978>
- We fixed a bug that caused `when(scalar)` without an argument not to be treated as a syntax error.
See also: <http://rt.perl.org/rt3/Public/Bug/Display.html?id=74114>

- We fixed a regression in the handling of labels immediately before string evals that was introduced in Perl 5.12.0.
See also: <http://rt.perl.org/rt3/Public/Bug/Display.html?id=74290>
- We fixed a regression in case-insensitive matching of folded characters in regular expressions introduced in Perl 5.10.1.
See also: <http://rt.perl.org/rt3/Public/Bug/Display.html?id=72998>

Platform Specific Notes

HP-UX

- Perl now allows `-Duse64bitint` without promoting to `use64bitall` on HP-UX

AIX

- Perl now builds on AIX 4.2
The changes required work around AIX 4.2s' lack of support for IPv6, and limited support for POSIX `sigaction()`.

FreeBSD 7

- FreeBSD 7 no longer contains `/usr/bin/objformat`. At build time, Perl now skips the `objformat` check for versions 7 and higher and assumes ELF.

VMS

- It's now possible to build extensions on older (pre 7.3-2) VMS systems.
DCL symbol length was limited to 1K up until about seven years or so ago, but there was no particularly deep reason to prevent those older systems from configuring and building Perl.
- We fixed the previously-broken `-Uuseperlio` build on VMS.
We were checking a variable that doesn't exist in the non-default case of disabling perlio. Now we only look at it when it exists.
- We fixed the `-Uuseperlio` command-line option in `configure.com`.
Formerly it only worked if you went through all the questions interactively and explicitly answered no.

Known Problems

- `List::Util::first` misbehaves in the presence of a lexical `$_` (typically introduced by `my $_` or implicitly by `given`). The variable which gets set for each iteration is the package variable `$_`, not the lexical `$_`.

A similar issue may occur in other modules that provide functions which take a block as their first argument, like

```
foo { ... $_ ... } list
```

See also: <http://rt.perl.org/rt3/Public/Bug/Display.html?id=67694>

- `Module::Load::Conditional` and `version` have an unfortunate interaction which can cause `CPANPLUS` to crash when it encounters an unparseable version string. Upgrading to `CPANPLUS 0.9004` or `Module::Load::Conditional 0.38` from CPAN will resolve this issue.

Acknowledgements

Perl 5.12.1 represents approximately four weeks of development since Perl 5.12.0 and contains approximately 4,000 lines of changes across 142 files from 28 authors.

Perl continues to flourish into its third decade thanks to a vibrant community of users and developers. The following people are known to have contributed the improvements that became Perl 5.12.1:

Ã†var ArnfrÃ†rÃ° Bjarmason, Chris Williams, chromatic, Craig A. Berry, David Golden, Father Chrysostomos, Florian Ragwitz, Frank Wiegand, Gene Sullivan, Goro Fuji, H.Merijn Brand, James E Keenan, Jan Dubois, Jesse Vincent, Josh ben Jore, Karl Williamson, Leon Brocard, Michael Schwern, Nga Tang Chan, Nicholas Clark, Niko Tyni, Philippe Bruhat, Rafael Garcia-Suarez, Ricardo Signes, Steffen Mueller, Todd Rinaldo, Vincent Pit and Zefram.

Reporting Bugs

If you find what you think is a bug, you might check the articles recently posted to the `comp.lang.perl.misc` newsgroup and the perl bug database at <http://rt.perl.org/perlbug/> . There may also be information at <http://www.perl.org/> , the Perl Home Page.

If you believe you have an unreported bug, please run the **perlbug** program included with your release. Be sure to trim your bug down to a tiny but sufficient test case. Your bug report, along with the output of `perl -v`, will be sent off to `perlbug@perl.org` to be analysed by the Perl porting team.

If the bug you are reporting has security implications, which make it inappropriate to send to a publicly archived mailing list, then please send it to `perl5-security-report@perl.org`. This points to a closed subscription unarchived mailing list, which includes all the core committers, who will be able to help assess the impact of issues, figure out a resolution, and help co-ordinate the release of patches to mitigate or fix the problem across all platforms on which Perl is supported. Please only use this address for security issues in the Perl core, not for modules independently distributed on CPAN.

SEE ALSO

The *Changes* file for an explanation of how to view exhaustive details on what changed.

The *INSTALL* file for how to build Perl.

The *README* file for general stuff.

The *Artistic* and *Copying* files for copyright information.