

#### NAME

perl5114delta - what is new for perl v5.11.4

#### DESCRIPTION

This document describes differences between the 5.11.3 release and the 5.11.4 release.

If you are upgrading from an earlier release such as 5.11.2, first read *perl5113delta*, which describes differences between 5.11.2 and 5.11.3.

# **Incompatible Changes**

#### **Version number formats**

Acceptable version number formats have been formalized into "strict" and "lax" rules. package NAME VERSION takes a strict version number. use NAME VERSION takes a lax version number. UNIVERSAL: :VERSION and the *version* object constructors take lax version numbers. Providing an invalid version will result in a fatal error.

These formats will be documented fully in the *version* module in a subsequent release of Perl 5.11. To a first approximation, a "strict" version number is a positive decimal number (integer or decimal-fraction) without exponentiation or else a dotted-decimal v-string with a leading 'v' character and at least three components. A "lax" version number allows v-strings with fewer than three components or without a leading 'v'. Under "lax" rules, both decimal and dotted-decimal versions may have a trailing "alpha" component separated by an underscore character after a fractional or dotted-decimal component.

The *version* module adds version::is\_strict and version::is\_lax functions to check a scalar against these rules.

### **Core Enhancements**

### **Unicode properties**

 $\p{XDigit}$  now matches the same characters as  $\p{Hex\_Digit}$ . This means that in addition to the characters it currently matches, [A-Fa-f0-9], it will also match their fullwidth equivalent forms, for example U+FF10: FULLWIDTH DIGIT ZERO.

# **Modules and Pragmata**

### **Pragmata Changes**

less

Upgraded from version 0.02 to 0.03.

This version introduces the stash\_name method to allow subclasses of less to pick where in %^H to store their stash.

version

Upgraded from version 0.77 to 0.81.

This version adds support for *Version number formats* as described earlier in this document and in its own documentation.

warnings

Upgraded from version 1.08 to 1.09.

This version adds the illegalproto warning category. See also *New or Changed Diagnostics* for this change.

#### **Updated Modules**

Archive::Extract

Upgraded from version 0.36 to 0.38.



B::Deparse

Upgraded from version 0.93 to 0.94.

Compress::Raw::Bzip2

Upgraded from version 2.021 to 2.024.

Compress::Raw::Zlib

Upgraded from version 2.021 to 2.024.

CPAN

Upgraded from version 1.94\_5301 to 1.94\_54.

File::Fetch

Upgraded from version 0.22 to 0.24.

Module::Build

Upgraded from version 0.36 to 0.3603.

Safe

Upgraded from version 2.20 to 2.21.

Anonymous coderefs created in Safe containers no longer get bogus arguments passed to them, fixing RT #72068.

### **Removed Modules and Pragmata**

```
Devel::DProf::V
```

Removed from the Perl core. Prior version was 'undef'.

# **Changes to Existing Documentation**

A significant fraction of the core documentation has been updated to clarify the behavior of Perl's Unicode handling.

Much of the remaining core documentation has been reviewed and edited for clarity, consistent use of language, and to fix the spelling of Tom Christiansen's name.

#### **Configuration improvements**

USE\_ATTRIBUTES\_FOR\_PERLIO is now reported in the compile-time options listed by the -v switch.

### **Platform Specific Changes**

**VMS** 

The default pipe buffer size on VMS has been updated to 8192 on 64-bit systems.

### **Selected Bug Fixes**

- Tie::Hash::NamedCapture::\* shouldn't abort if passed bad input (RT #71828)
- @\_ and \$\_ no longer leak under threads (RT #34342 and #41138, also #70602, #70974)

#### **New or Changed Diagnostics**

New warning category illegalproto

The two warnings:

```
Illegal character in prototype for %s : %s
Prototype after '%c' for %s : %s
```

have been moved from the syntax top-level warnings category into a new first-level category, illegalproto. These two warnings are currently the only ones emitted during parsing of an



invalid/illegal prototype, so one can now do

```
no warnings 'illegalproto';
```

to suppress only those, but not other syntax-related warnings. Warnings where prototypes are changed, ignored, or not met are still in the prototype category as before. (Matt S. Trout)

Ivalue attribute ignored after the subroutine has been defined

This new warning is issued when one attempts to mark a subroutine as Ivalue after it has been defined.

### **Changed Internals**

Perl\_magic\_setmglob now knows about globs, fixing RT #71254.

#### **Known Problems**

Perl 5.11.4 is a development release leading up to Perl 5.12.0. Some notable known problems found in 5.11.4 are listed as dependencies of RT #69710, the Perl 5 version 12 meta-ticket.

## **Deprecations**

The following items are now deprecated.

```
UNIVERSAL->import()
```

The method UNIVERSAL->import() is now deprecated. Attempting to pass import arguments to a use UNIVERSAL statement will result in a deprecation warning. (This is a less noisy version of the full deprecation warning added in 5.11.0.)

# Acknowledgements

Perl 5.11.4 represents approximately one month of development since Perl 5.11.3 and contains 17682 lines of changes across 318 files from 40 authors and committers:

Abigail, Andy Dougherty, brian d foy, Chris Williams, Craig A. Berry, David Golden, David Mitchell, Father Chrysostomos, Gerard Goossen, H.Merijn Brand, Jesse Vincent, Jim Cromie, Josh ben Jore, Karl Williamson, kmx, Matt S Trout, Nicholas Clark, Niko Tyni, Paul Marquess, Philip Hazel, Rafael Garcia-Suarez, Rainer Tammer, Reini Urban, Ricardo Signes, Shlomi Fish, Tim Bunce, Todd Rinaldo, Tom Christiansen, Tony Cook, Vincent Pit, and Zefram

Many of the changes included in this version originated in the CPAN modules included in Perl's core. We're grateful to the entire CPAN community for helping Perl to flourish.

### **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 <a href="http://rt.perl.org/perlbug/">http://rt.perl.org/perlbug/</a>. There may also be information at <a href="http://www.perl.org/">http://www.perl.org/</a>, 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 analyzed 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 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.