

## NAME

perl5163delta - what is new for perl v5.16.3

## DESCRIPTION

This document describes differences between the 5.16.2 release and the 5.16.3 release.

If you are upgrading from an earlier release such as 5.16.1, first read *perl5162delta*, which describes differences between 5.16.1 and 5.16.2.

## Core Enhancements

No changes since 5.16.0.

## Security

This release contains one major and a number of minor security fixes. These latter are included mainly to allow the test suite to pass cleanly with the clang compiler's address sanitizer facility.

### CVE-2013-1667: memory exhaustion with arbitrary hash keys

With a carefully crafted set of hash keys (for example arguments on a URL), it is possible to cause a hash to consume a large amount of memory and CPU, and thus possibly to achieve a Denial-of-Service.

This problem has been fixed.

### wrap-around with IO on long strings

Reading or writing strings greater than 2\*\*31 bytes in size could segfault due to integer wraparound.

This problem has been fixed.

### memory leak in Encode

The UTF-8 encoding implementation in Encode.xs had a memory leak which has been fixed.

## Incompatible Changes

There are no changes intentionally incompatible with 5.16.0. If any exist, they are bugs and reports are welcome.

## Deprecations

There have been no deprecations since 5.16.0.

## Modules and Pragmata

### Updated Modules and Pragmata

- *Encode* has been upgraded from version 2.44 to version 2.44\_01.
- *Module::CoreList* has been upgraded from version 2.76 to version 2.76\_02.
- *XS::APITest* has been upgraded from version 0.38 to version 0.39.

## Known Problems

None.

## Acknowledgements

Perl 5.16.3 represents approximately 4 months of development since Perl 5.16.2 and contains approximately 870 lines of changes across 39 files from 7 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 5.16.3:

Andy Dougherty, Chris 'BinGOs' Williams, Dave Rolsky, David Mitchell, Michael Schroeder, Ricardo Signes, Yves Orton.

The list above is almost certainly incomplete as it is automatically generated from version control history. In particular, it does not include the names of the (very much appreciated) contributors who reported issues to the Perl bug tracker.

For a more complete list of all of Perl's historical contributors, please see the *AUTHORS* file in the Perl source distribution.

## 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.