

Full credit is given to the above companies including the OS that this PDF file was generated!

# Linux Ubuntu 22.4.5 Manual Pages on command 'perl5.30-x86\_64-linux-gnu.1'

# \$ man perl5.30-x86\_64-linux-gnu.1

PERL(1)

Perl Programmers Reference Guide

PERL(1)

NAME

perl - The Perl 5 language interpreter

#### **SYNOPSIS**

perl [?-sTtuUWX?] [?-hv?]?[?-V[:configvar]?]

[?-cw?]?[?-d[t][:debugger]?]?[?-D[number/list]?]

[?-pna?]?[?-Fpattern?]?[?-l[octal]?]?[?-0[octal/hexadecimal]?]

[?-Idir?]?[?-m[-]module?]?[?-M[-]'module...'?]?[?-f?]

[?-C?[number/list]?] [?-S?] [?-x[dir]?] [?-i[extension]?]

[?[-e|-E]?'command'?]?[?--?]?[?programfile?]?[?argument?]...

For more information on these options, you can run "perldoc perlrun".

### **GETTING HELP**

The peridoc program gives you access to all the documentation that comes with Perl.

You can get more documentation, tutorials and community support online at <a href="http://www.perl.org/">http://www.perl.org/>.

If you're new to Perl, you should start by running "perldoc perlintro", which is a general intro for beginners and provides some background to help you navigate the rest of Perl's extensive documentation. Run "perldoc perldoc" to learn more things you can do with perldoc.

For ease of access, the Perl manual has been split up into several sections.

### Overview

Perl overview (this section)

perlintro Perl introduction for beginners

perlrun Perl execution and options

perltoc Perl documentation table of contents

**Tutorials** 

perlreftut Perl references short introduction

perldsc Perl data structures intro

perllol Perl data structures: arrays of arrays

perlrequick Perl regular expressions quick start

perlretut Perl regular expressions tutorial

perlootut Perl OO tutorial for beginners

perlperf Perl Performance and Optimization Techniques

perlstyle Perl style guide

pericheat Pericheat sheet

perltrap Perl traps for the unwary

peridebtut Peri debugging tutorial

perlfaq Perl frequently asked questions

perlfaq1 General Questions About Perl

perlfaq2 Obtaining and Learning about Perl

perlfaq3 Programming Tools

perlfaq4 Data Manipulation

perlfaq5 Files and Formats

perlfaq6 Regexes

perlfaq7 Perl Language Issues

perlfaq8 System Interaction

perlfaq9 Networking

Reference Manual

perlsyn Perl syntax

perldata Perl data structures

perlop Perl operators and precedence

perlsub Perl subroutines

perlfunc Perl built-in functions

perlopentut Perl open() tutorial

perlpacktut Perl pack() and unpack() tutorial

perlpod Perl plain old documentation

perlpodspec Perl plain old documentation format specification

perlpodstyle Perl POD style guide

perldiag Perl diagnostic messages

perIdeprecation PerI deprecations

perllexwarn Perl warnings and their control

perldebug Perl debugging

perlvar Perl predefined variables

perlre Perl regular expressions, the rest of the story

perlrebackslash Perl regular expression backslash sequences

perlrecharclass Perl regular expression character classes

perlreref Perl regular expressions quick reference

perlref Perl references, the rest of the story

perlform Perl formats

perlobj Perl objects

perltie Perl objects hidden behind simple variables

perldbmfilter Perl DBM filters

perlipc Perl interprocess communication

perlfork Perl fork() information

perlnumber Perl number semantics

perlthrtut Perl threads tutorial

perlport Perl portability guide

perllocale Perl locale support

perluniintro Perl Unicode introduction

perlunicode Perl Unicode support

perlunicook Perl Unicode cookbook

perlunifaq Perl Unicode FAQ

perluniprops Index of Unicode properties in Perl

perlunitut Perl Unicode tutorial

perlebcdic Considerations for running Perl on EBCDIC platforms

perlsec Perl security

perlmod Perl modules: how they work

perlmodlib Perl modules: how to write and use

perlmodstyle Perl modules: how to write modules with style

perlmodinstall Perl modules: how to install from CPAN

perlnewmod Perl modules: preparing a new module for distribution

perlpragma Perl modules: writing a user pragma

perlutil utilities packaged with the Perl distribution

perlfilter Perl source filters

perldtrace Perl's support for DTrace

perlglossary Perl Glossary

Internals and C Language Interface

perlembed Perl ways to embed perl in your C or C++ application

peridebguts Peri debugging guts and tips

perlxstut Perl XS tutorial

perlxs Perl XS application programming interface

perlxstypemap Perl XS C/Perl type conversion tools

perIclib Internal replacements for standard C library functions

perlguts Perl internal functions for those doing extensions

pericall Peri calling conventions from C

perlmroapi Perl method resolution plugin interface

perlreapi Perl regular expression plugin interface

perlreguts Perl regular expression engine internals

perlapi Perl API listing (autogenerated)

perlintern Perl internal functions (autogenerated)

perliol C API for Perl's implementation of IO in Layers

perlapio Perl internal IO abstraction interface

perlhack Perl hackers guide

perlsource Guide to the Perl source tree

perlinterp Overview of the Perl interpreter source and how it works

perlhacktut Walk through the creation of a simple C code patch

perlhacktips Tips for Perl core C code hacking

perlpolicy Perl development policies

perlgit Using git with the Perl repository

Miscellaneous

perlbook Perl book information Page 4/11

perlcommunity Perl community information

perIdoc Look up PerI documentation in Pod format

perlhist Perl history records

perIdelta PerI changes since previous version

perl5300delta Perl changes in version 5.30.0

perl5282delta Perl changes in version 5.28.2

perl5281delta Perl changes in version 5.28.1

perl5280delta Perl changes in version 5.28.0

perl5263delta Perl changes in version 5.26.3

perl5262delta Perl changes in version 5.26.2

perl5261delta Perl changes in version 5.26.1

perl5260delta Perl changes in version 5.26.0

perl5244delta Perl changes in version 5.24.4

perl5243delta Perl changes in version 5.24.3

perl5242delta Perl changes in version 5.24.2

perl5241delta Perl changes in version 5.24.1

perl5240delta Perl changes in version 5.24.0

perl5224delta Perl changes in version 5.22.4

perl5223delta Perl changes in version 5.22.3

perl5222delta Perl changes in version 5.22.2

perl5221delta Perl changes in version 5.22.1

perl5220delta Perl changes in version 5.22.0

perl5203delta Perl changes in version 5.20.3

perl5202delta Perl changes in version 5.20.2

perl5201delta Perl changes in version 5.20.1

perl5200delta Perl changes in version 5.20.0

perl5184delta Perl changes in version 5.18.4

perl5182delta Perl changes in version 5.18.2

perl5181delta Perl changes in version 5.18.1

perl5180delta Perl changes in version 5.18.0

perl5163delta Perl changes in version 5.16.3

perl5162delta Perl changes in version 5.16.2

perl5161delta Perl changes in version 5.16.1

perl5160delta Perl changes in version 5.16.0 perl5144delta Perl changes in version 5.14.4 perl5143delta Perl changes in version 5.14.3 perl5142delta Perl changes in version 5.14.2 perl5141delta Perl changes in version 5.14.1 perl5140delta Perl changes in version 5.14.0 perl5125delta Perl changes in version 5.12.5 perl5124delta Perl changes in version 5.12.4 perl5123delta Perl changes in version 5.12.3 perl5122delta Perl changes in version 5.12.2 perl5121delta Perl changes in version 5.12.1 perl5120delta Perl changes in version 5.12.0 perl5101delta Perl changes in version 5.10.1 perl5100delta Perl changes in version 5.10.0 Perl changes in version 5.8.9 perl589delta Perl changes in version 5.8.8 perl588delta perl587delta Perl changes in version 5.8.7 perl586delta Perl changes in version 5.8.6 perl585delta Perl changes in version 5.8.5 perl584delta Perl changes in version 5.8.4 perl583delta Perl changes in version 5.8.3 perl582delta Perl changes in version 5.8.2 perl581delta Perl changes in version 5.8.1 perl58delta Perl changes in version 5.8.0 perl561delta Perl changes in version 5.6.1 perl56delta Perl changes in version 5.6 perl5005delta Perl changes in version 5.005 perl5004delta Perl changes in version 5.004 perlexperiment A listing of experimental features in Perl perlartistic Perl Artistic License

Language-Specific

perlgpl

**GNU General Public License** 

perljp Perl for Japanese (in EUC-JP)

perlko Perl for Korean (in EUC-KR)

perltw Perl for Traditional Chinese (in Big5)

# Platform-Specific

perlaix Perl notes for AIX

perlamiga Perl notes for AmigaOS

perlandroid Perl notes for Android

perlbs2000 Perl notes for POSIX-BC BS2000

perice Perl notes for WinCE

perlcygwin Perl notes for Cygwin

peridos Perl notes for DOS

perlfreebsd Perl notes for FreeBSD

perlhaiku Perl notes for Haiku

perlhpux Perl notes for HP-UX

perlhurd Perl notes for Hurd

perlirix Perl notes for Irix

perllinux Perl notes for Linux

perlmacos Perl notes for Mac OS (Classic)

perlmacosx Perl notes for Mac OS X

perlnetware Perl notes for NetWare

perlopenbsd Perl notes for OpenBSD

perlos2 Perl notes for OS/2

perlos390 Perl notes for OS/390

perlos400 Perl notes for OS/400

perlplan9 Perl notes for Plan 9

perlqnx Perl notes for QNX

perlriscos Perl notes for RISC OS

perIsolaris PerI notes for Solaris

perlsymbian Perl notes for Symbian

perlsynology Perl notes for Synology

perltru64 Perl notes for Tru64

perlyms Perl notes for VMS

perlvos Perl notes for Stratus VOS

perlwin32 Perl notes for Windows

Stubs for Deleted Documents

perlboot

perlbot

perlrepository

perltodo

perltooc

perltoot

On Debian systems, you need to install the perl-doc package which contains the majority of the standard Perl documentation and the perldoc program.

Extensive additional documentation for Perl modules is available, both those distributed with Perl and third-party modules which are packaged or locally installed.

You should be able to view Perl's documentation with your man(1) program or perldoc(1).

Some documentation is not available as man pages, so if a cross-reference is not found by man, try it with peridoc. Peridoc can also take you directly to documentation for functions (with the -f switch). See "peridoc --help" (or "peridoc peridoc" or "man peridoc") for other helpful options peridoc has to offer.

In general, if something strange has gone wrong with your program and you're not sure where you should look for help, try making your code comply with use strict and use warnings. These will often point out exactly where the trouble is.

# **DESCRIPTION**

Perl officially stands for Practical Extraction and Report Language, except when it doesn't.

Perl was originally a language optimized for scanning arbitrary text files, extracting information from those text files, and printing reports based on that information. It quickly became a good language for many system management tasks. Over the years, Perl has grown into a general-purpose programming language. It's widely used for everything from quick "one-liners" to full-scale application development.

The language is intended to be practical (easy to use, efficient, complete) rather than beautiful (tiny, elegant, minimal). It combines (in the author's opinion,

anyway) some of the best features of sed, awk, and sh, making it familiar and easy to use for Unix users to whip up quick solutions to annoying problems. Its general-purpose programming facilities support procedural, functional, and object-oriented programming paradigms, making Perl a comfortable language for the long haul on major projects, whatever your bent.

Perl's roots in text processing haven't been forgotten over the years. It still boasts some of the most powerful regular expressions to be found anywhere, and its support for Unicode text is world-class. It handles all kinds of structured text, too, through an extensive collection of extensions. Those libraries, collected in the CPAN, provide ready-made solutions to an astounding array of problems. When they haven't set the standard themselves, they steal from the best -- just like Perl itself.

#### **AVAILABILITY**

Perl is available for most operating systems, including virtually all Unix-like platforms. See "Supported Platforms" in perlport for a listing.

#### **ENVIRONMENT**

See perlrun.

#### **AUTHOR**

Larry Wall <a href="mailto:larry@wall.org">a. with the help of oodles of other folks.

If your Perl success stories and testimonials may be of help to others who wish to advocate the use of Perl in their applications, or if you wish to simply express your gratitude to Larry and the Perl developers, please write to perl-thanks@perl.org.

#### **FILES**

"@INC" locations of perl libraries

"@INC" above is a reference to the built-in variable of the same name; see perlvar for more information.

## SEE ALSO

http://www.perl.org/ the Perl homepage

http://www.perl.com/ Perl articles (O'Reilly)

http://www.cpan.org/ the Comprehensive Perl Archive

http://www.pm.org/ the Perl Mongers

DIAGNOSTICS Page 9/11

Using the "use strict" pragma ensures that all variables are properly declared and prevents other misuses of legacy Perl features.

The "use warnings" pragma produces some lovely diagnostics. One can also use the -w flag, but its use is normally discouraged, because it gets applied to all executed Perl code, including that not under your control.

See perIdiag for explanations of all PerI's diagnostics. The "use diagnostics" pragma automatically turns PerI's normally terse warnings and errors into these longer forms.

Compilation errors will tell you the line number of the error, with an indication of the next token or token type that was to be examined. (In a script passed to Perl via -e switches, each -e is counted as one line.)

Setuid scripts have additional constraints that can produce error messages such as "Insecure dependency". See perlsec.

Did we mention that you should definitely consider using the use warnings pragma?

BUGS

The behavior implied by the use warnings pragma is not mandatory.

Perl is at the mercy of your machine's definitions of various operations such as type casting, atof(), and floating-point output with sprintf().

If your stdio requires a seek or eof between reads and writes on a particular stream, so does Perl. (This doesn't apply to sysread() and syswrite().)

While none of the built-in data types have any arbitrary size limits (apart from memory size), there are still a few arbitrary limits: a given variable name may not be longer than 251 characters. Line numbers displayed by diagnostics are internally stored as short integers, so they are limited to a maximum of 65535 (higher numbers usually being affected by wraparound).

You may mail your bug reports (be sure to include full configuration information as output by the myconfig program in the perl source tree, or by "perl -V") to perlbug@perl.org. If you've succeeded in compiling perl, the perlbug script in the utils/ subdirectory can be used to help mail in a bug report.

Perl actually stands for Pathologically Eclectic Rubbish Lister, but don't tell anyone I said that.

### **NOTES**

left as an exercise to the reader.

The three principal virtues of a programmer are Laziness, Impatience, and Hubris.

See the Camel Book for why.

perl v5.30.0

2022-10-05

PERL(1)