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### ***Rocky Enterprise Linux 9.2 Manual Pages on command 'perl5.34-x86\_64-linux-gnu.1'***

***\$ man perl5.34-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?]][?-O[octal/hexadecimal?]]
    [-ldir?][?-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 perldoc program gives you access to all the documentation that comes with Perl. You can get more documentation, tutorials and community support online at <https://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	Perl overview (this section)
perlintro	Perl introduction for beginners

perlrn Perl execution and options  
perltoc Perl documentation table of contents

## Tutorials

perlreftut Perl references short introduction  
perldsc Perl data structures intro  
perllo 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  
perlcheat Perl cheat sheet  
perltrap Perl traps for the unwary  
perldebtut Perl 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

perldocstyle Perl style guide for core docs

perlpodstyle Perl POD style guide

perldiag Perl diagnostic messages

perldeprecation Perl 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

perlrefref Perl regular expressions quick reference

perlref Perl references, the rest of the story

perform Perl formats

perlobj Perl objects

perltie Perl objects hidden behind simple variables

perldbfilter 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

perlsecpolicy Perl security report handling policy

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  
perlfiler 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  
perldebbugs Perl debugging guts and tips  
perlxstut Perl XS tutorial  
perlxs Perl XS application programming interface  
perlxstypemap Perl XS C/Perl type conversion tools  
perlclib Internal replacements for standard C library functions  
perlguts Perl internal functions for those doing extensions  
perllcall Perl 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  
perlapiol 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  
perlgov Perl Rules of Governance  
perlgit Using git with the Perl repository

## History

perlhist	Perl history records
perldelta	Perl changes since previous version
perl5321delta	Perl changes in version 5.32.1
perl5320delta	Perl changes in version 5.32.0
perl5303delta	Perl changes in version 5.30.3
perl5302delta	Perl changes in version 5.30.2
perl5301delta	Perl changes in version 5.30.1
perl5300delta	Perl changes in version 5.30.0
perl5283delta	Perl changes in version 5.28.3
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
perl589delta	Perl changes in version 5.8.9
perl588delta	Perl changes in version 5.8.8
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

## Miscellaneous

perlbook	Perl book information
perlcommunity	Perl community information
perldoc	Look up Perl documentation in Pod format
perlexperiment	A listing of experimental features in Perl
perlartistic	Perl Artistic License
perlgpl	GNU General Public License

## Language-Specific

perlcn	Perl for Simplified Chinese (in UTF-8)
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
perlcygwin	Perl notes for Cygwin
perldos	Perl notes for DOS
perlfreesbd	Perl notes for FreeBSD
perlhaiku	Perl notes for Haiku
perlhpx	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
perliscos	Perl notes for RISC OS
perlsolaris	Perl notes for Solaris
perlsynology	Perl notes for Synology
perltru64	Perl notes for Tru64
perlvms	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 perldoc. Perldoc can also take you directly to documentation for functions (with the -f switch). See "perldoc --help" (or "perldoc perldoc" or "man perldoc") for other helpful options perldoc 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 "ENVIRONMENT" in perlrun.

#### AUTHOR

Larry Wall <larry@wall.org>, 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

<https://www.perl.org/>    the Perl homepage

<https://www.perl.com/>    Perl articles

<https://www.cpan.org/>    the Comprehensive Perl Archive

## DIAGNOSTICS

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 perldiag for explanations of all Perl's diagnostics. The "use diagnostics" pragma automatically turns Perl'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 submit 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 <https://github.com/Perl/perl5/issues>.

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

## NOTES

The Perl motto is "There's more than one way to do it." Divining how many more is 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 v5.34.0

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PERL(1)