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Rocky Enterprise Linux 9.2 Manual Pages on command 'Devel::PPPPort.3perl'

\$ man Devel::PPPPort.3perl

Devel::PPPPort(3perl) Perl Programmers Reference Guide Devel::PPPPort(3perl)

NAME

Devel::PPPPort - Perl/Pollution/Portability

SYNOPSIS

```
Devel::PPPPort::WriteFile(); # defaults to ./ppport.h
Devel::PPPPort::WriteFile('someheader.h');
# Same as above but retrieve contents rather than write file
my $contents = Devel::PPPPort::GetFileContents();
my $contents = Devel::PPPPort::GetFileContents('someheader.h');
```

Start using Devel::PPPPort for XS projects

```
$ cpan Devel::PPPPort
$ perl -MDevel::PPPPort -e'Devel::PPPPort::WriteFile'
$ perl ppport.h --compat-version=5.6.1 --patch=diff.patch *.xs
$ patch -p0 < diff.patch
$ echo ppport.h >>MANIFEST
```

DESCRIPTION

Perl's API has changed over time, gaining new features, new functions, increasing its flexibility, and reducing the impact on the C namespace environment (reduced pollution).

The header file written by this module, typically ppport.h, attempts to bring some of the newer Perl API features to older versions of Perl, so that you can worry less about keeping track of old releases, but users can still reap the benefit.

"Devel::PPPPort" contains two functions, "WriteFile" and "GetFileContents". "WriteFile"'s only purpose is to write the ppport.h C header file. This file contains a series of

macros and, if explicitly requested, functions that allow XS modules to be built using older versions of Perl. Currently, Perl versions from 5.003_07 to 5.33.1 are supported. "GetFileContents" can be used to retrieve the file contents rather than writing it out. This module is used by "h2xs" to write the file pport.h.

Why use pport.h?

You should use pport.h in modern code so that your code will work with the widest range of Perl interpreters possible, without significant additional work.

You should attempt to get older code to fully use pport.h, because the reduced pollution of newer Perl versions is an important thing. It's so important that the old polluting ways of original Perl modules will not be supported very far into the future, and your module will almost certainly break! By adapting to it now, you'll gain compatibility and a sense of having done the electronic ecology some good.

How to use pport.h

Don't direct the users of your module to download "Devel::PPPport". They are most probably not XS writers. Also, don't make pport.h optional. Rather, just take the most recent copy of pport.h that you can find (e.g. by generating it with the latest "Devel::PPPport" release from CPAN), copy it into your project, adjust your project to use it, test it, and distribute the header along with your module.

It is important to use the most recent version of pport.h. You do need to test before shipping a newer version than you already had. One possible failure is that someone had to convert a backported element from a macro into a function, and actual functions must be enabled with a NEED macro to minimize the possibility of namespace pollution. See HACKERS for details. The developers of "Devel::PPPport" want to hear if there are other problems that arise from using a later pport.h. Use <https://github.com/Dual-Life/Devel-PPPport/issues> to report any.

Running pport.h

But pport.h is more than just a C header. It's also a Perl script that can check your source code. It will suggest hints and portability notes, and can even make suggestions on how to change your code. You can run it like any other Perl program:

```
perl pport.h [options] [files]
```

It also has embedded documentation, so you can use

```
perldoc pport.h
```

to find out more about how to use it.

FUNCTIONS

WriteFile

"WriteFile" takes one optional argument. When called with one argument, it expects to be passed a filename. When called with no arguments, it defaults to the filename ppport.h.

The function returns a true value if the file was written successfully. Otherwise it returns a false value.

GetFileContents

"GetFileContents" behaves like "WriteFile" above, but returns the contents of the would-be file rather than writing it out.

COMPATIBILITY

ppport.h supports Perl versions from 5.003_07 to 5.33.1 in threaded and non-threaded configurations.

Provided Perl compatibility API

The header file written by this module, typically ppport.h, provides access to the following elements of the Perl API that are not otherwise available in Perl releases older than when the elements were first introduced. (Note that many of these are not supported all the way back to 5.003_07, but it may be that they are supported back as far as you need; see "Supported Perl API, sorted by version" for that information.)

_aMY_CXT

aMY_CXT

aMY_CXT_

__ASSERT__

aTHX

aTHX_

aTHXR

aTHXR_

av_count

AvFILLp

av_tindex

av_top_index

BOM_UTF8

boolSV

call_argv

caller_cx
call_method
call_pv
call_sv
C_ARRAY_END
C_ARRAY_LENGTH
cBOOL
ckWARN
ckWARN2
ckWARN2_d
ckWARN3
ckWARN3_d
ckWARN4
ckWARN4_d
ckWARN_d
ck_warner
ck_warner_d
CopFILE
CopFILEAV
CopFILEGV
CopFILEGV_set
CopFILE_set
CopFILESV
CopSTASH
CopSTASH_eq
CopSTASHPV
CopSTASHPV_set
CopSTASH_set
CopyD
CPERLscope
croak_memory_wrap
croak_nocontext
croak_no_modify

croak_sv
croak_xs_usage
dAX
dAXMARK
DECLARATION_FOR_LC_NUMERIC_MANIPULATION
DEFSV
DEFSV_set
die_sv
dITEMS
dMY_CXT
dMY_CXT_SV
dNOOP
dTHR
dTHX
dTHXa
dTHXoa
dTHXR
dUNDERBAR
dVAR
dXCPT
dXSTARG
END_EXTERN_C
ERRSV
eval_pv
eval_sv
EXTERN_C
foldEQ_utf8
get_av
get_cv
get_cvn_flags
get_cvs
get_hv
get_sv

G_METHOD
G_RETHROW
grok_bin
grok_hex
grok_number
GROK_NUMERIC_RADIX
grok_numeric_radix
grok_oct
gv_fetchpvn_flags
gv_fetchpvs
gv_fetchsv
gv_init_pvn
gv_stashpvn
gv_stashpvs
GvSVn
HEf_SVKEY
HeUTF8
hv_fetchs
HvNAME_get
HvNAMELEN_get
hv_stores
IN_LOCALE
IN_LOCALE_COMPILETIME
IN_LOCALE_RUNTIME
IN_PERL_COMPILETIME
INT2PTR
isALNUM
isALNUM_A
isALNUMC
isALNUMC_A
isALNUMC_L1
isALPHA
isALPHA_A

isALPHA_L1
isALPHA_LC_utf8_safe
isALPHANUMERIC
isALPHANUMERIC_A
isALPHANUMERIC_L1
isALPHANUMERIC_LC
isALPHANUMERIC_LC_utf8_safe
isALPHANUMERIC_utf8_safe
isALPHANUMERIC_uvchr
isALPHA_utf8_safe
isALPHA_uvchr
isASCII
isASCII_A
isASCII_L1
isASCII_LC
isASCII_utf8_safe
isASCII_uvchr
isBLANK
isBLANK_A
isBLANK_L1
isBLANK_LC
isBLANK_LC_utf8_safe
isBLANK_utf8_safe
isBLANK_uvchr
isCNTRL
isCNTRL_A
isCNTRL_L1
isCNTRL_LC_utf8_safe
isCNTRL_utf8_safe
isCNTRL_uvchr
isDIGIT
isDIGIT_A
isDIGIT_L1

isDIGIT_LC_utf8_safe
isDIGIT_utf8_safe
isDIGIT_uvchr
isGRAPH
isGRAPH_A
isGRAPH_L1
isGRAPH_LC_utf8_safe
isGRAPH_utf8_safe
isGRAPH_uvchr
isGV_with_GP
isIDCONT
isIDCONT_A
isIDCONT_L1
isIDCONT_LC
isIDCONT_LC_utf8_safe
isIDCONT_utf8_safe
isIDCONT_uvchr
isIDFIRST
isIDFIRST_A
isIDFIRST_L1
isIDFIRST_LC
isIDFIRST_LC_utf8_safe
isIDFIRST_utf8_safe
isIDFIRST_uvchr
is_invariant_string
isLOWER
isLOWER_A
isLOWER_L1
isLOWER_LC_utf8_safe
isLOWER_utf8_safe
isLOWER_uvchr
IS_NUMBER_GREATER_THAN_UV_MAX
IS_NUMBER_INFINITY

IS_NUMBER_IN_UV
IS_NUMBER_NAN
IS_NUMBER_NEG
IS_NUMBER_NOT_INT
isOCTAL
isOCTAL_A
isOCTAL_L1
isPRINT
isPRINT_A
isPRINT_L1
isPRINT_LC_utf8_safe
isPRINT_utf8_safe
isPRINT_uvchr
isPSXSPC
isPSXSPC_A
isPSXSPC_L1
isPSXSPC_LC_utf8_safe
isPSXSPC_utf8_safe
isPSXSPC_uvchr
isPUNCT
isPUNCT_A
isPUNCT_L1
isPUNCT_LC_utf8_safe
isPUNCT_utf8_safe
isPUNCT_uvchr
isSPACE
isSPACE_A
isSPACE_L1
isSPACE_LC_utf8_safe
isSPACE_utf8_safe
isSPACE_uvchr
isUPPER
isUPPER_A

isUPPER_L1
isUPPER_LC_utf8_safe
isUPPER_utf8_safe
isUPPER_uvchr
isUTF8_CHAR
is_utf8_invariant_string
isWORDCHAR
isWORDCHAR_A
isWORDCHAR_L1
isWORDCHAR_LC
isWORDCHAR_LC_utf8_safe
isWORDCHAR_utf8_safe
isWORDCHAR_uvchr
isXDIGIT
isXDIGIT_A
isXDIGIT_L1
isXDIGIT_LC
isXDIGIT_LC_utf8_safe
isXDIGIT_utf8_safe
isXDIGIT_uvchr
IVdf
IVSIZE
IVTYPE
LATIN1_TO_NATIVE
LC_NUMERIC_LOCK
LC_NUMERIC_UNLOCK
LIKELY
load_module
LOCK_LC_NUMERIC_STANDARD
LOCK_NUMERIC_STANDARD
memCHRs
memEQ
memEQs

memNE
memNEs
mess
mess_nocontext
mess_sv
mg_findext
MoveD
mPUSHi
mPUSHn
mPUSHp
mPUSHs
mPUSHu
MUTABLE_AV
MUTABLE_CV
MUTABLE_GV
MUTABLE_HV
MUTABLE_IO
MUTABLE_PTR
MUTABLE_SV
mXPUSHi
mXPUSHn
mXPUSHp
mXPUSHs
mXPUSHu
MY_CXT
MY_CXT_CLONE
MY_CXT_INIT
my_snprintf
my_sprintf
my_strlcat
my_strlcpy
my_strlen
NATIVE_TO_LATIN1

NATIVE_TO_UNI

newCONSTSUB

newRV_inc

newRV_noinc

newSVpvn

newSVpvn_flags

newSVpvn_share

newSVpvn_utf8

newSVpvs

newSVpvs_flags

newSVpvs_share

newSVsv_flags

newSVsv_nomg

newSV_type

newSVuv

Newx

Newxc

Newxz

NOOP

NUM2PTR

NVef

NVff

NVgf

NVTYPE

OpHAS_SIBLING

OpLASTSIB_set

OpMAYBESIB_set

OpMORESIB_set

OpSIBLING

packWARN

packWARN2

packWARN3

packWARN4

PERL_ABS
PERL_ARGS_ASSERT_CROAK_XS_USAGE
Perl_ck_warner
Perl_ck_warner_d
Perl_croak_no_modify
PERL_HASH
PERL_INT_MAX
PERL_INT_MIN
PERLIO_FUNCS_CAST
PERLIO_FUNCS_DECL
PERL_LONG_MAX
PERL_LONG_MIN
PERL_MAGIC_arylen
PERL_MAGIC_backref
PERL_MAGIC_bm
PERL_MAGIC_collxfrm
PERL_MAGIC_dbfile
PERL_MAGIC_dbline
PERL_MAGIC_defelem
PERL_MAGIC_env
PERL_MAGIC_envelem
PERL_MAGIC_ext
PERL_MAGIC_fm
PERL_MAGIC_glob
PERL_MAGIC_isa
PERL_MAGIC_isaelem
PERL_MAGIC_mutex
PERL_MAGIC_nkeys
PERL_MAGIC_overload
PERL_MAGIC_overload_elem
PERL_MAGIC_overload_table
PERL_MAGIC_pos
PERL_MAGIC_qr

PERL_MAGIC_regdata
PERL_MAGIC_regdatum
PERL_MAGIC_regex_global
PERL_MAGIC_shared
PERL_MAGIC_shared_scalar
PERL_MAGIC_sig
PERL_MAGIC_sigelem
PERL_MAGIC_substr
PERL_MAGIC_sv
PERL_MAGIC_taint
PERL_MAGIC_tied
PERL_MAGIC_tiedelem
PERL_MAGIC_tiedscalar
PERL_MAGIC_utf8
PERL_MAGIC_uvar
PERL_MAGIC_uvar_elem
PERL_MAGIC_vec
PERL_MAGIC_vstring
PERL_PV_ESCAPE_ALL
PERL_PV_ESCAPE_FIRSTCHAR
PERL_PV_ESCAPE_NOBACKSLASH
PERL_PV_ESCAPE_NOCLEAR
PERL_PV_ESCAPE_QUOTE
PERL_PV_ESCAPE_RE
PERL_PV_ESCAPE_UNI
PERL_PV_ESCAPE_UNI_DETECT
PERL_PV_PRETTY_DUMP
PERL_PV_PRETTY_ELLIPSES
PERL_PV_PRETTY_LTGT
PERL_PV_PRETTY_NOCLEAR
PERL_PV_PRETTY_QUOTE
PERL_PV_PRETTY_REGPROP
PERL_QUAD_MAX

PERL_QUAD_MIN
PERL_SCAN_ALLOW_UNDERSCORES
PERL_SCAN_DISALLOW_PREFIX
PERL_SCAN_GREATER_THAN_UV_MAX
PERL_SCAN_SILENT_ILLDIGIT
PERL_SHORT_MAX
PERL_SHORT_MIN
PERL_SIGNALS_UNSAFE_FLAG
PERL_UCHAR_MAX
PERL_UCHAR_MIN
PERL_UINT_MAX
PERL_UINT_MIN
PERL_ULONG_MAX
PERL_ULONG_MIN
PERL_UNUSED_ARG
PERL_UNUSED_CONTEXT
PERL_UNUSED_DECL
PERL_UNUSED_RESULT
PERL_UNUSED_VAR
PERL_UQUAD_MAX
PERL_UQUAD_MIN
PERL_USE_GCC_BRACE_GROUPS
PERL_USHORT_MAX
PERL_USHORT_MIN
PERL_VERSION_EQ
PERL_VERSION_GE
PERL_VERSION_GT
PERL_VERSION_LE
PERL_VERSION_LT
PERL_VERSION_NE
Perl_warner
Perl_warner_nocontext
PL_bufend

PL_bufptr
PL_compiling
PL_copline
PL_curcop
PL_curstash
PL_DBsignal
PL_DBsingle
PL_DBsub
PL_DBtrace
PL_debstash
PL_defgv
PL_diehook
PL_dirty
PL_dowarn
PL_errgv
PL_error_count
PL_expect
PL_hexdigit
PL_hints
PL_in_my
PL_in_my_stash
PL_laststatval
PL_lex_state
PL_lex_stuff
PL_linestr
PL_mess_sv
PL_na
PL_no_modify
PL_parser
PL_perldb
PL_perl_destruct_level
PL_ppaddr
PL_rsfp

PL_rsfilters
PL_signals
PL_stack_base
PL_stack_sp
PL_statcache
PL_stdin
PL_Sv
PL_sv_arenaroot
PL_sv_no
PL_sv_undef
PL_sv_yes
PL_tainted
PL_tainting
PL_tokenbuf
PL_Xpv
_pMY_CXT
pMY_CXT
pMY_CXT_
Poison
PoisonFree
PoisonNew
PoisonWith
pTHX
pTHX_
PTR2IV
PTR2nat
PTR2NV
PTR2ul
PTR2UV
PTRV
PUSHmortal
PUSHu
pv_display

pv_escape
pv_pretty
REPLACEMENT_CHARACTER_UTF8
RESTORE_LC_NUMERIC
SAVE_DEFSV
START_EXTERN_C
START_MY_CXT
start_subparse
STMT_END
STMT_START
STORE_LC_NUMERIC_SET_STANDARD
STORE_NUMERIC_SET_STANDARD
STR_WITH_LEN
sv_2pvbyte
sv_2pvbyte_nolen
sv_2pv_flags
sv_2pv_nolen
sv_2uv
sv_catpvf_mg
sv_catpvf_mg_nocontext
sv_catpv_mg
sv_catpvn_mg
sv_catpvn_nomg
sv_catpvs
sv_catsv_mg
sv_catsv_nomg
SV_CONST_RETURN
SV_COW_DROP_PV
SV_COW_SHARED_HASH_KEYS
SVf
SVfARG
SVf_UTF8
SvGETMAGIC

SV_GMAGIC
SV_HAS_TRAILING_NUL
SV_IMMEDIATE_UNREF
SvIV_nomg
sv_len_utf8
sv_len_utf8_nomg
sv_magic_portable
SvMAGIC_set
sv_mortalcopy_flags
SV_MUTABLE_RETURN
SV_NOSTEAL
SvNV_nomg
SvPVbyte
SvPV_const
SvPV_flags
SvPV_flags_const
SvPV_flags_const_nolen
SvPV_flags_mutable
SvPV_force
SvPV_force_flags
SvPV_force_flags_mutable
SvPV_force_flags_nolen
SvPV_force_mutable
SvPV_force_nolen
SvPV_force_nomg
SvPV_force_nomg_nolen
SvPV_mutable
sv_pvn_force_flags
sv_pvn_nomg
SvPV_nolen
SvPV_nolen_const
SvPV_nomg
SvPV_nomg_const

SvPV_nomg_const_nolen
SvPV_nomg_nolen
SvPV_renew
SvPVX_const
SvPVX_mutable
SvPVx_nolen_const
SvREFCNT_inc
SvREFCNT_inc_NN
SvREFCNT_inc_simple
SvREFCNT_inc_simple_NN
SvREFCNT_inc_simple_void
SvREFCNT_inc_simple_void_NN
SvREFCNT_inc_void
SvREFCNT_inc_void_NN
SvRV_set
SvRX
SvRXOK
sv_setiv_mg
sv_setnv_mg
sv_setpvf_mg
sv_setpvf_mg_nocontext
sv_setpv_mg
sv_setpvn_mg
sv_setpvs
sv_setsv_flags
sv_setsv_mg
sv_setsv_nomg
sv_setuv
sv_setuv_mg
SvSHARED_HASH
SV_SMAGIC
SvSTASH_set
SvTRUE_nomg

sv_unmagicext
SvUOK
sv_usepvn_mg
SvUTF8
SV_UTF8_NO_ENCODING
sv_uv
SvUV
SvUV_nomg
SvUV_set
SvUVX
SvUVx
SvUVXx
sv_vcatpvf
sv_vcatpvf_mg
sv_vsetpvf
sv_vsetpvf_mg
SvVSTRING_mg
switch_to_global_locale
sync_locale
toFOLD_utf8_safe
toFOLD_uvchr
toLOWER_utf8_safe
toLOWER_uvchr
toTITLE_utf8_safe
toTITLE_uvchr
toUPPER_utf8_safe
toUPPER_uvchr
UNDERBAR
UNICODE_REPLACEMENT
UNI_TO_NATIVE
UNLIKELY
UNLOCK_LC_NUMERIC_STANDARD
UNLOCK_NUMERIC_STANDARD

UTF8_CHK_SKIP
UTF8f
UTF8fARG
UTF8_IS_INVARIANT
UTF8_MAXBYTES
UTF8_MAXBYTES_CASE
UTF8_SAFE_SKIP
UTF8_SKIP
utf8_to_uvchr
utf8_to_uvchr_buf
UVCHR_IS_INVARIANT
UVCHR_SKIP
UVof
UVSIZE
UVTYPE
UVuf
UVXf
UVxf
vload_module
vmess
vnewSVpvf
vwarner
WARN_ALL
WARN_AMBIGUOUS
WARN_ASSERTIONS
WARN_BAREWORD
WARN_CLOSED
WARN_CLOSURE
WARN_DEBUGGING
WARN_DEPRECATED
WARN_DIGIT
warner
WARN_EXEC

WARN_EXITING
WARN_GLOB
WARN_INPLACE
WARN_INTERNAL
WARN_IO
WARN_LAYER
WARN_MALLOC
WARN_MISC
WARN_NEWLINE
warn_nocontext
WARN_NUMERIC
WARN_ONCE
WARN_OVERFLOW
WARN_PACK
WARN_PARENTHESIS
WARN_PIPE
WARN_PORTABLE
WARN_PRECEDENCE
WARN_PRINTF
WARN_PROTOTYPE
WARN_QW
WARN_RECURSION
WARN_REDEFINE
WARN_REGEXP
WARN_RESERVED
WARN_SEMICOLON
WARN_SEVERE
WARN_SIGNAL
WARN_SUBSTR
warn_sv
WARN_SYNTAX
WARN_TAINT
WARN_THREADS

WARN_UNINITIALIZED
WARN_UNOPENED
WARN_UNPACK
WARN_UNTIE
WARN_UTF8
WARN_VOID
WIDEST_UTYPE
XCPT_CATCH
XCPT_RETHROW
XCPT_TRY_END
XCPT_TRY_START
XPUSHmortal
XPUSHu
XSprePUSH
XSPROTO
XSRETURN
XSRETURN_UV
XST_mUV
ZeroD

Supported Perl API, sorted by version

The table in this section lists all the Perl API elements available, sorted by the version in which support starts. This includes all the elements that pport.h helps out with, as well as those elements that it doesn't.

In some cases, it doesn't make practical sense for elements to be supported earlier than they already are. For example, UTF-8 functionality isn't provided prior to the release where it was first introduced.

But in other cases, it just is that no one has implemented support yet. Patches welcome!

Some elements are ported backward for some releases, but not all the way to 5.003_07.

If an element, call it ELEMENT, is not on this list, try using this command to find out why:

```
perl pport.h --api-info=ELEMENT
```

A few of the entries in the list below are marked as DEPRECATED. You should not use these for new code, and should be converting existing uses to use something better.

Some of the entries in the list are marked as "experimental". This means these should not generally be used. They may be removed or changed without notice. You can ask why they are experimental by sending email to <mailto:perl5-porters@perl.org>.

And some of the entries are marked as "undocumented". This means that they aren't necessarily considered stable, and could be changed or removed in some future release without warning. It is therefore a bad idea to use them without further checking. It could be that these are considered to be for perl core use only; or it could be, though, that "Devel::PPPort" doesn't know where to find their documentation, or that it's just an oversight that they haven't been documented. If you want to use one, and potentially have it backported, first send mail to <mailto:perl5-porters@perl.org>.

perl 5.33.1

dMY_CXT_SV

perl 5.33.0

PERL_INC_VERSION_LIST

USE_C_BACKTRACE

perl 5.32.0

HAS_SOCKADDR_STORAGE

perl 5.31.7

HASATTRIBUTE_ALWAYS_INLINE

HAS_ISLESS

HAS_WCRTOMB

sv_isa_sv (marked experimental)

WARN_EXPERIMENTAL__ISA

perl 5.31.6

GDBMNDDBM_H_USES_PROTOTYPES

HAS_DBMINIT_PROTO

I_DBM

I_NDBM

NDBM_H_USES_PROTOTYPES

perl 5.31.5

isALPHANUMERIC_utf8

isALPHA_utf8

isASCII_utf8

isBLANK_utf8
isCNTRL_utf8
isDIGIT_utf8
isGRAPH_utf8
isIDCONT_utf8
isIDFIRST_utf8
isLOWER_utf8
isPRINT_utf8
isPSXSPC_utf8
isPUNCT_utf8
isSPACE_utf8
isUPPER_utf8
isWORDCHAR_utf8
isXDIGIT_utf8
toFOLD_utf8
toLOWER_utf8
toTITLE_utf8
toUPPER_utf8

perl 5.31.4

sv_2pvbyte_flags
sv_2pvutf8_flags (undocumented)
SvAMAGIC_off
SvAMAGIC_on
SvPVbyte_nomg
SvPVbyte_or_null
SvPVbyte_or_null_nomg
SvPVutf8_nomg
SvPVutf8_or_null
SvPVutf8_or_null_nomg
sv_utf8_downgrade_flags
sv_utf8_downgrade_nomg

perl 5.31.3

parse_subsignature (marked experimental)

SANE_ERRSV

STORE_LC_NUMERIC_SET_TO_NEEDED_IN

WITH_LC_NUMERIC_SET_TO_NEEDED

WITH_LC_NUMERIC_SET_TO_NEEDED_IN

perl 5.29.10

my_strtod

Strtod

perl 5.29.9

HAS_TOWLOWER

HAS_TOWUPPER

I_WCTYPE

WARN_EXPERIMENTAL__PRIVATE_USE

WARN_EXPERIMENTAL__UNIPROP_WILDCARDS

WARN_EXPERIMENTAL__VLB

perl 5.27.11

HAS_DUPLOCALE

HAS_STRTOD_L

perl 5.27.9

PERL_MAGIC_nonelem

thread_locale_init (marked experimental) (undocumented)

thread_locale_term (marked experimental) (undocumented)

utf8n_to_uvchr_msgs

uvchr_to_utf8_flags_msgs

WARN_EXPERIMENTAL__ALPHA_ASSERTIONS

perl 5.27.8

HAS_ACCEPT4

HAS_DUP3

HAS_MKOSTEMP

HAS_PIPE2

newWHENOP

WARN_EXPERIMENTAL__SCRIPT_RUN

perl 5.27.7

WARN_SHADOW

perl 5.27.6

HAS_MBRLLEN

HAS_MBRTOWC

HAS_NANOSLEEP

HAS_STRNLEN

HAS_STRTOLD_L

HAS_THREAD_SAFE_NL_LANGINFO_L

I_WCHAR

wrap_keyword_plugin (marked experimental)

perl 5.27.5

HAS_MEMRCHR

perl 5.27.4

HAS_FCHMODAT

HAS_LINKAT

HAS_OPENAT

HAS_RENAMEAT

HAS_UNLINKAT

mg_freeext

Perl_langinfo

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perl 5.23.5

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he_dup (undocumented)
ibcmp_utf8
mg_dup (undocumented)
my_fork (undocumented)
my_socketpair (undocumented)
OP_DESC
OP_NAME
pack_cat (DEPRECATED)
packWARN2
packWARN3
packWARN4
perl_destruct
PERL_EXIT_DESTRUCT_END
PerlIO_clearerr
PerlIO_close
PerlIO_eof
PerlIO_error
PerlIO_fileno

PerlIO_fill (undocumented)
PerlIO_flush
PerlIO_get_base
PerlIO_get_bufsiz
PerlIO_get_cnt
PerlIO_get_ptr
PerlIO_read
PerlIO_seek
PerlIO_set_cnt
PerlIO_setlinebuf
PerlIO_set_ptrcnt
PerlIO_stderr
PerlIO_stdin
PerlIO_stdout
PerlIO_tell
PerlIO_unread (undocumented)
PerlIO_write
PL_peepp
PROCSSELFEXE_PATH
pv_uni_display
rvpv_dup (undocumented)
savesharedpv
save_shared_pvref (undocumented)
si_dup (undocumented)
sortsv
ss_dup (undocumented)
sv_copypv
sv_dup (undocumented)
SvLOCK
sv_magicext
sv_nolocking (DEPRECATED)
sv_nosharing
sv_nounlocking (DEPRECATED)

sv_recode_to_utf8

SvSHARE

sv_uni_display

SvUNLOCK

unpack_str (DEPRECATED)

uvchr_to_utf8_flags

vdeb (undocumented)

perl 5.7.2

atfork_lock (undocumented)

atfork_unlock (undocumented)

calloc

DB_VERSION_MAJOR_CFG

DB_VERSION_MINOR_CFG

DB_VERSION_PATCH_CFG

getcwd_sv

HAS_FCHDIR

HAS_FLOCK_PROTO

HAS_NL_LANGINFO

HAS_SOCKETMARK_PROTO

HAS_STRFTIME

HAS_SYSCALL_PROTO

HAS_USLEEP_PROTO

I_LANGINFO

init_tm (undocumented)

malloc

mfree (undocumented)

mini_mktime

my_strftime

op_null

OSVERS

PERL_TARGETARCH

realloc

sv_catpv_flags

sv_catsv_flags

sv_utf8_upgrade_flags

sv_utf8_upgrade_nomg

perl 5.7.1

bytes_from_utf8 (marked experimental)

do_openn (undocumented)

FCNTL_CAN_LOCK

gv_handler (undocumented)

HAS_FSYNC

HAS_GETITIMER

HAS_GETPAGESIZE

HAS_READV

HAS_RECVMSG

HAS_SBRK_PROTO

HAS_SENDMSG

HAS_SETITIMER

HAS_SIGPROCMASK

HAS_SOCKETMARK

HAS_STRTOQ

HAS_STRUCT_CMSGHDR

HAS_STRUCT_MSGHDR

HAS_UALARM

HAS_USLEEP

HAS_WRITEV

isALNUM_LC_uvchr

isALPHA_LC_uvchr

isCNTRL_LC_uvchr

isDIGIT_LC_uvchr

isGRAPH_LC_uvchr

isIDFIRST_LC_uvchr

isLOWER_LC_uvchr

is_lvalue_sub (undocumented)

isPRINT_LC_uvchr

isPUNCT_LC_uvchr
isSPACE_LC_uvchr
isUPPER_LC_uvchr
my_popen_list (undocumented)
NEED_VA_COPY
PerlIO_apply_layers
PerlIO_binmode
PerlIO_debug
PERLIO_FUNCS_CAST
POPpbytex
printf_nocontext (DEPRECATED) (undocumented)
SAVEMORTALIZESV
SIG_SIZE
STDIO_PTR_LVAL_SETS_CNT
sv_force_normal_flags
sv_setref_uv
sv_unref_flags
sv_utf8_upgrade
U32_ALIGNMENT_REQUIRED
USE_PERLIO
UTF8_CHECK_ONLY
utf8_length
utf8n_to_uvchr
uvchr_to_utf8
UVXf

perl 5.6.1

apply_attrs_string (marked experimental) (undocumented)
bytes_to_utf8 (marked experimental)
gv_efullname4 (undocumented)
gv_fullname4 (undocumented)
HAS_FREXPL
HAS_ISNAN
HAS_ISNANL

HAS_MODFL
isPSXSPC_LC
isUTF8_CHAR
is_utf8_string
NV_PRESERVES_UV_BITS
NVSIZE
PERL_PRIldbl
PERL_SCNfldbl
save_generic_pvref (undocumented)
SvGAMAGIC
utf8_to_bytes (marked experimental)
utf8_to_uvchr (DEPRECATED)
utf8_to_uvchr_buf

perl 5.6.0

av_delete
av_exists
call_atexit (undocumented)
caller_cx
ckWARN2
ckWARN2_d
ckWARN_d
CopLINE
CPPLAST
CPPRUN
die_nocontext
do_open9 (DEPRECATED) (undocumented)
DO_UTF8
Drand01
dump_all
dump_eval (undocumented)
dump_form (undocumented)
dump_packsubs
dump_sub (undocumented)

FFLUSH_NULL
form_nocontext
fprintf_nocontext (DEPRECATED) (undocumented)
get_context (undocumented)
get_ppaddr (undocumented)
Gid_t_f
Gid_t_sign
Gid_t_size
gv_dump (undocumented)
HAS_ACCESS
HAS_ATOLL
HAS_DRAND48_PROTO
HAS_EACCESS
HAS_FD_SET
HAS_FSEEKO
HAS_FTELLO
HAS_GETCWD
HAS_GETHOSTNAME
HAS_GETSPNAM
HAS_INT64_T
HAS_LDBL_DIG
HAS_LSEEK_PROTO
HAS_MADVISE
HAS_MKDTEMP
HAS_MKSTEMP
HAS_MKSTEMPS
HAS_MMAP
HAS_MPROTECT
HAS_MSYNC
HAS_MUNMAP
HAS_SQRTL
HAS_STRTOLD
HAS_STRTOLL

HAS_STRTOULL
HAS_STRTOUQ
HAS_TELLDIR_PROTO
I16SIZE
I16TYPE
I32SIZE
I32TYPE
I64SIZE
I64TYPE
I8SIZE
I8TYPE
I_INTTYPES
I_NETINET_TCP
I_POLL
isALNUMC_LC
isALPHA_LC_utf8_safe
isALPHANUMERIC_LC_utf8_safe
isALPHANUMERIC_utf8_safe
isALPHANUMERIC_uvchr
isALPHA_utf8_safe
isALPHA_uvchr
isBLANK_LC_utf8_safe
isBLANK_utf8_safe
isBLANK_uvchr
isCNTRL_LC
isCNTRL_LC_utf8_safe
isCNTRL_utf8_safe
isCNTRL_uvchr
isDIGIT_LC_utf8_safe
isDIGIT_utf8_safe
isDIGIT_uvchr
isGRAPH_LC
isGRAPH_LC_utf8_safe

isGRAPH_utf8_safe
isGRAPH_uvchr
I_SHADOW
isIDCONT_LC_utf8_safe
isIDCONT_utf8_safe
isIDCONT_uvchr
isIDFIRST_LC_utf8_safe
isIDFIRST_utf8_safe
isIDFIRST_uvchr
isLOWER_LC_utf8_safe
isLOWER_utf8_safe
isLOWER_uvchr
isPRINT_LC_utf8_safe
isPRINT_utf8_safe
isPRINT_uvchr
isPSXSPC_LC_utf8_safe
isPSXSPC_utf8_safe
isPSXSPC_uvchr
isPUNCT_LC
isPUNCT_LC_utf8_safe
isPUNCT_utf8_safe
isPUNCT_uvchr
isSPACE_LC_utf8_safe
isSPACE_utf8_safe
isSPACE_uvchr
isUPPER_LC_utf8_safe
isUPPER_utf8_safe
isUPPER_uvchr
is_utf8_char (DEPRECATED)
isWORDCHAR_LC_utf8_safe
isWORDCHAR_utf8_safe
isWORDCHAR_uvchr
isXDIGIT_LC_utf8_safe

isXDIGIT_utf8_safe
isXDIGIT_uvchr
I_SYSLOG
I_SYSUIO
I_SYSUTSNAME
load_module_nocontext
LSEEKSIZE
magic_dump (undocumented)
Mmap_t
MULTIPLICITY
my_atof
my_fflush_all (undocumented)
newANONATTRSUB (undocumented)
newATTRSUB
newSVpvf_nocontext
newXS
newXSproto
Off_t_size
op_dump
OPpEARLY_CV
PERL_EXIT_EXPECTED
perl_parse
PERL_PRIldbl
PERL_PRIgldbl
PERL_REVISION (DEPRECATED)
PERL_SYS_INIT3
PHOSTNAME
PL_check
PL_exit_flags
PL_runops
pmop_dump (undocumented)
POPul
QUAD_IS_INT

QUAD_IS_INT64_T
QUAD_IS_LONG
QUAD_IS_LONG_LONG
QUADKIND
Rand_seed_t
require_pv
safesyscalloc
safesysfree
safesysmalloc
safesysrealloc
save_alloc (undocumented)
SAVEDESTRUCTOR
SAVEI8
save_vptr (undocumented)
scan_bin
SCHED_YIELD
seedDrand01
set_context (undocumented)
SITELIB_STEM
Size_t_size
Sock_size_t
STDIO_PTR_LVALUE
STDIO_STREAM_ARRAY
Strtol
Strtoul
sv_2pvutf8
sv_catpvf_mg_nocontext
sv_catpvf_nocontext
sv_force_normal
SvIOK_notUV
SvIOK_only_UV
SvIOK_UV
sv_len_utf8

sv_len_utf8_nomg (undocumented)

SvPOK_only_UTF8

sv_pos_b2u

sv_pos_u2b

SvPVbyte_nolen

SvPVbytex

SvPVbytex_force

SvPVutf8

SvPVutf8_force

SvPVutf8_nolen

SvPVutf8x

SvPVutf8x_force

sv_rvweaken

sv_setpvf_mg_nocontext

sv_setpvf_nocontext

SvUOK

sv_utf8_decode

sv_utf8_downgrade

sv_utf8_encode

SvUTF8_off

SvUTF8_on

toFOLD_utf8_safe

toFOLD_uvchr

toLOWER_utf8_safe

toLOWER_uvchr

toTITLE_utf8_safe

toTITLE_uvchr

toUPPER_utf8_safe

toUPPER_uvchr

U16SIZE

U16TYPE

U32SIZE

U32TYPE

U64SIZE
U64TYPE
U8SIZE
U8TYPE
Uid_t_f
Uid_t_sign
Uid_t_size
Uquad_t
USE_64_BIT_ALL
USE_64_BIT_INT
USE_LARGE_FILES
USE_STDIO_BASE
USE_STDIO_PTR
USE_THREADS
UTF8_CHK_SKIP
utf8_distance
utf8_hop
UTF8_MAXBYTES
UTF8_SAFE_SKIP
UTF8_SKIP
UTF8SKIP
vcroak
vform
vwarn
vwarner
warn_nocontext

perl 5.005_03

get_vtbl (undocumented)
I_PTHREAD
POPpx
save_generic_svref (undocumented)
SELECT_MIN_BITS
USE_STAT_BLOCKS

perl 5.005

debop (undocumented)

debprofdump (undocumented)

DOUBLESIZE

fbm_compile

fbm_instr

get_op_descs (undocumented)

get_op_names (undocumented)

GRPASSWD

HAS_CSH

HAS_ENDGRENT

HAS_ENDHOSTENT

HAS_ENDNETENT

HAS_ENDPROTOENT

HAS_ENDPWENT

HAS_ENDSERVENT

HAS_GETGRENT

HAS_GETHOSTBYADDR

HAS_GETHOSTBYNAME

HAS_GETHOST_PROTOS

HAS_GETNETBYADDR

HAS_GETNETBYNAME

HAS_GETNETENT

HAS_GETNET_PROTOS

HAS_GETPROTOBYNAME

HAS_GETPROTOBYNUMBER

HAS_GETPROTOENT

HAS_GETPROTO_PROTOS

HAS_GETPWENT

HAS_GETSERVBYNAME

HAS_GETSERVBYPORT

HAS_GETSERVENT

HAS_GETSERV_PROTOS

HAS_LCHOWN
HAS_LONG_DOUBLE
HAS_LONG_LONG
HAS_SCHED_YIELD
HAS_SETGRENT
HAS_SETHOSTENT
HAS_SETNETENT
HAS_SETPROTOENT
HAS_SETPWENT
HAS_SETSERVENT
HAS_SETVBUF
I_ARPA_INET
I_NETDB
init_stacks (undocumented)
LONG_DOUBLESIZE
LONGLONGSIZE
mg_length (DEPRECATED)
mg_size (undocumented)
Netdb_hlen_t
Netdb_host_t
Netdb_name_t
Netdb_net_t
newHVhv (undocumented)
new_stackinfo (undocumented)
Pid_t
PL_curpad (marked experimental)
PL_in_my_stash (undocumented)
PL_modglobal
PTRSIZE
PWPASSWD
sv_peek (undocumented)
sv_pvn_nomg (DEPRECATED) (undocumented)

do_binmode (DEPRECATED) (undocumented)

GV_NOINIT

HAS_CHSIZE

HAS_GNULIBC

PWGECOS

save_aelem (undocumented)

save_helem (undocumented)

USE_SEMCTL_SEMID_DS

USE_SEMCTL_SEMUN

perl 5.004

ARCHNAME

BIN_EXP

block_end

block_gimme (undocumented)

block_start

call_list (undocumented)

delimcpy

form

GIMME_V

gv_autoload4

gv_fetchmethod_autoload

G_VOID

HAS_GETTIMEOFDAY

HAS_INET_ATON

HAS_SETGROUPS

HAS_STRTOD

HAS_STRTOL

HAS_STRTOUL

HePV

HeSVKEY_set

hv_delayfree_ent (undocumented)

hv_free_ent (undocumented)

ibcmp_locale

IN_LOCALE
IN_LOCALE_COMPILETIME
IN_LOCALE_RUNTIME
intro_my
isALNUM_LC
isALPHA_LC
isALPHANUMERIC_LC
isDIGIT_LC
isIDCONT_LC
isIDFIRST_LC
isLOWER_LC
isPRINT_LC
isSPACE_LC
isUPPER_LC
isWORDCHAR_LC
mess
mess_nocontext
mess_sv
my_failure_exit (undocumented)
newSVpvf
Perl_warner_nocontext (undocumented)
PL_mess_sv (undocumented)
POPu
rsignal
rsignal_state (undocumented)
save_gp
SAVEI16
SAVSTACK_POS
share_hek (undocumented)
SHORTSIZE
sv_catpvf
sv_catpvf_mg
sv_cmp_locale

sv_derived_from
sv_magic_portable (undocumented)
SvSetMagicSV
SvSetMagicSV_nosteal
sv_setpvf
sv_setpvf_mg
SvSetSV_nosteal
SvTAINTED
SvTAINTED_off
SvTAINTED_on
sv_vcatpvf
sv_vcatpvf_mg
sv_vcatpvfn
sv_vsetpvf
sv_vsetpvf_mg
sv_vsetpvfn
Timeval
toLOWER_LC
vmess
vnewSVpvf
warner
warner_nocontext

perl 5.003_07 (or maybe earlier)

amagic_call (undocumented)
ARCHLIB
ARCHLIB_EXP
aTHX
aTHX_
aTHXR (undocumented)
aTHXR_ (undocumented)
av_clear
av_count
av_extend

av_fetch
av_fill
AvFILL
AvFILLp
av_len
av_make
av_pop
av_push
av_shift
av_store
av_tindex
av_top_index
av_undef
av_unshift
ax
BIN
BOM_UTF8
boolSV
BYTEORDER
call_argv
call_method
call_pv
call_sv
C_ARRAY_END
C_ARRAY_LENGTH
CASTFLAGS
CASTNEGFLOAT
CAT2
cBOOL
ckWARN
CLASS
CopFILE
CopFILEAV

CopFILEGV
CopFILEGV_set
CopFILE_set
CopFILESV
CopSTASH
CopSTASH_eq
CopSTASHPV
CopSTASH_set
Copy
CopyD
CPERLscope (DEPRECATED)
CPPMINUS
CPPSTDIN
croak
croak_memory_wrap (undocumented)
croak_nocontext
croak_no_modify
croak_sv
croak_xs_usage
CSH
cv_clone
cv_const_sv
CvDEPTH
CvGV
CvSTASH
cv_undef
dAX
dAXMARK
DB_Hash_t
DB_Prefix_t
DEFSV
DEFSV_set
die

die_sv
Direntry_t
dITEMS
dMARK
dNOOP
do_close (undocumented)
do_join (undocumented)
do_open (undocumented)
dORIGMARK
downtarray (undocumented)
dSP
dTARGET
dTHR
dTHX
dTHXa
dTHXoa
dTHXR (undocumented)
dUNDERBAR
dVAR
dXCPT
dXSARGS
dXSI32
dXSTARG (undocumented)
END_EXTERN_C
ENTER
EOF_NONBLOCK
ERRSV
eval_pv
eval_sv
EXTEND
EXTERN_C
FILE_base
FILE_bufsiz

FILE_cnt
FILE_ptr
filter_add
filter_del (undocumented)
filter_read
FLEXFILENAMES
Fpos_t
Free_t
FREEMPS
G_ARRAY
Gconvert
G_DISCARD
get_av
get_cv
get_cvn_flags
get_cvs
get_hv
get_sv
G_EVAL
Gid_t
GIMME (DEPRECATED)
G_KEEPPERR
G_METHOD
G_NOARGS
gp_free (undocumented)
gp_ref (undocumented)
G_RETHROW
grok_bin
grok_hex
grok_number
GROK_NUMERIC_RADIX
grok_numeric_radix
grok_oct

Groups_t
G_SCALAR
GV_ADD
GV_ADDMULTI
GV_ADDWARN
GvAV
gv_AVadd (undocumented)
GvCV
gv_efullname (DEPRECATED) (undocumented)
gv_efullname3 (undocumented)
gv_fetchfile
gv_fetchmeth
gv_fetchmethod
gv_fetchpv
gv_fetchpvn_flags
gv_fetchpvs
gv_fetchsv
gv_fullname (DEPRECATED) (undocumented)
gv_fullname3 (undocumented)
GvHV
gv_HVadd (undocumented)
gv_init
gv_init_pvn
gv_IOadd (undocumented)
gv_stashpv
gv_stashpvn
gv_stashpvs
gv_stashsv
GvSV
GvSVn
HAS_ALARM
HAS_CHOWN
HAS_CHROOT

HAS_CRYPT
HAS_CUSERID
HAS_DIFFTIME
HAS_DLERROR
HAS_DUP2
HAS_FCHMOD
HAS_FCHOWN
HAS_FCNTL
HAS_FGETPOS
HAS_FLOCK
HAS_FORK
HAS_FPATHCONF
HAS_FSETPOS
HAS_GETGROUPS
HAS_GETHOSTENT
HAS_GETLOGIN
HAS_GETPGID
HAS_GETPGRP
HAS_GETPPID
HAS_GETPRIORITY
HAS_HTONL
HAS_HTONS
HAS_ISASCII
HAS_KILLPG
HAS_LINK
HAS_LOCALECONV
HAS_LOCKF
HAS_LSTAT
HAS_MBLLEN
HAS_MBSTOWCS
HAS_MBTOWC
HAS_MKDIR
HAS_MKFIFO

HAS_MKTIME
HAS_MSG
HAS_NICE
HAS_NTOHL
HAS_NTOHS
HAS_OPEN3
HAS_PATHCONF
HAS_PAUSE
HAS_PIPE
HAS_POLL
HAS_QUAD
HAS_READDIR
HAS_READLINK
HAS_RENAME
HAS_REWINDDIR
HAS_RMDIR
HAS_SEEKDIR
HAS_SELECT
HAS_SEM
HAS_SETEGID
HAS_SETEUID
HAS_SETLINEBUF
HAS_SETLOCALE
HAS_SETPGID
HAS_SETPGRP
HAS_SETPRIORITY
HAS_SETREGID
HAS_SETRESGID
HAS_SETRESUID
HAS_SETREUID
HAS_SETSID
HAS_SHM
HAS_SHMAT_PROTOTYPE

HAS_SIGACTION
HAS_SIGSETJMP
HAS_SOCKET
HAS_SOCKETPAIR
HAS_STRCOLL
HAS_STRXFRM
HAS_SYMLINK
HAS_SYSCALL
HAS_SYSCONF
HAS_SYS_ERRLIST
HAS_SYSTEM
HAS_TCGETPGRP
HAS_TCSETPGRP
HAS_TELLDIR
HAS_TIMES
HAS_TRUNCATE
HAS_TZNAME
HAS_UMASK
HAS_UNAME
HAS_WAIT4
HAS_WAITPID
HAS_WCSTOMBS
HAS_WCTOMB
HEf_SVKEY
HeHASH
HeKEY
HeKLEN
HeSVKEY
HeSVKEY_force
HeVAL
hv_clear
hv_delete
hv_delete_ent

hv_exists
hv_exists_ent
hv_fetch
hv_fetch_ent
hv_fetchs
HvFILL
hv_iterinit
hv_iterkey
hv_iterkeysv
hv_iternext
hv_iternextsv
hv_ival
hv_ksplit (undocumented)
hv_magic
HvNAME
HvNAME_get
HvNAMELEN_get
hv_store
hv_store_ent
hv_stores
hv_undef
ibcmp
I_DIRENT
I_DLFCN
I_GRP
I_LOCALE
I_NETINET_IN
IN_PERL_COMPILETIME
instr
INT2PTR
INTMAX_C
INTSIZE
I_PWD

isALNUM
isALNUM_A
isALNUMC
isALNUMC_A
isALNUMC_L1
isALPHA
isALPHA_A
isALPHA_L1
isALPHANUMERIC
isALPHANUMERIC_A
isALPHANUMERIC_L1
isASCII
isASCII_A
isASCII_L1
isASCII_LC
isASCII_utf8_safe
isASCII_uvchr
isBLANK
isBLANK_A
isBLANK_L1
isBLANK_LC
isCNTRL
isCNTRL_A
isCNTRL_L1
isDIGIT
isDIGIT_A
isDIGIT_L1
isGRAPH
isGRAPH_A
isGRAPH_L1
isGV_with_GP
isIDCONT
isIDCONT_A

isIDCONT_L1
isIDFIRST
isIDFIRST_A
isIDFIRST_L1
isLOWER
isLOWER_A
isLOWER_L1
IS_NUMBER_GREATER_THAN_UV_MAX
IS_NUMBER_INFINITY
IS_NUMBER_IN_UV
IS_NUMBER_NAN
IS_NUMBER_NEG
IS_NUMBER_NOT_INT
isOCTAL
isOCTAL_A
isOCTAL_L1
isPRINT
isPRINT_A
isPRINT_L1
isPSXSPC
isPSXSPC_A
isPSXSPC_L1
isPUNCT
isPUNCT_A
isPUNCT_L1
isSPACE
isSPACE_A
isSPACE_L1
isUPPER
isUPPER_A
isUPPER_L1
isWORDCHAR
isWORDCHAR_A

isWORDCHAR_L1
isXDIGIT
isXDIGIT_A
isXDIGIT_L1
isXDIGIT_LC
I_SYS_DIR
I_SYS_FILE
I_SYS_IOCTL
I_SYS_PARAM
I_SYS_RESOURCE
I_SYS_SELECT
I_SYS_STAT
I_SYS_TIME
I_SYS_TIMES
I_SYS_TYPES
I_SYS_UN
I_SYS_WAIT
items
I_TERMIOS
I_TIME
I_UNISTD
I_UTIME
IVdf
IV_MAX (undocumented)
IV_MIN (undocumented)
IVSIZE
IVTYPE
ix
LATIN1_TO_NATIVE
LEAVE
leave_scope (undocumented)
LIKELY
load_module

LOC_SED
LONGSIZE
looks_like_number
Malloc_t
MARK
MEM_ALIGNBYTES
memCHRs
memEQ
memEQs
memNE
memNEs
mg_clear
mg_copy
mg_find
mg_findext
mg_free
mg_get
mg_magical
mg_set
Mode_t
Move
MoveD
mPUSHi
mPUSHn
mPUSHp
mPUSHs
mPUSHu
MUTABLE_PTR
MUTABLE_SV
mXPUSHi
mXPUSHn
mXPUSHp
mXPUSHs

mXPUSHu
my_exit
my_pclose (undocumented)
my_popen (undocumented)
my_setenv
my_snprintf
my_sprintf (DEPRECATED)
my_strlcat
my_strlcpy
my_strlen
NATIVE_TO_LATIN1
NATIVE_TO_UNI
newANONHASH (undocumented)
newANONLIST (undocumented)
newANONSUB (undocumented)
newASSIGNOP
newAV
newAVREF (undocumented)
newBINOP
newCONDOP
newCONSTSUB
newCVREF (undocumented)
newFORM (undocumented)
newGVgen (undocumented)
newGVOP
newGVREF (undocumented)
newHV
newHVREF (undocumented)
newIO (undocumented)
newLISTOP
newLOGOP
newLOOPEX
newLOOPOP

newNULLLIST
newOP
newPMOP
newPROG (undocumented)
newPVOP
newRANGE
newRV (undocumented)
newRV_inc
newRV_noinc
newSLICEOP
newSTATEOP
newSUB
newSV
newSViv
newSVnv
newSVOP
newSVpv
newSVpvn
newSVpvn_flags
newSVpvn_share
newSVpvn_utf8
newSVpvs
newSVpvs_flags
newSVpvs_share
newSVREF (undocumented)
newSVrv
newSVsv
newSVsv_flags (undocumented)
newSVsv_nomg
newSV_type
newSVuv
newUNOP
Newx

Newxc
Newxz
ninstr
NOOP
Nullav (DEPRECATED)
Nullch
Nullcv (DEPRECATED)
Nullhv (DEPRECATED)
Nullsv
NUM2PTR
NVef
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BUGS

If you find any bugs, "Devel::PPPort" doesn't seem to build on your system, or any of its tests fail, please send a bug report to

<https://github.com/Dual-Life/Devel-PPPort/issues/new>.

AUTHORS

? Version 1.x of Devel::PPPort was written by Kenneth Albanowski.

? Version 2.x was ported to the Perl core by Paul Marquess.

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? Versions >= 3.22 are maintained by perl5 porters

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SEE ALSO

See h2xs, ppport.h.

perl v5.34.0

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Devel::PPPort(3perl)