

NAME

perlintern - autogenerated documentation of purely **internal** Perl functions

DESCRIPTION

This file is the autogenerated documentation of functions in the Perl interpreter that are documented using Perl's internal documentation format but are not marked as part of the Perl API. In other words, **they are not for use in extensions!**

Compile-time scope hooks**BhkENTRY**

Return an entry from the BHK structure. *which* is a preprocessor token indicating which entry to return. If the appropriate flag is not set this will return NULL. The type of the return value depends on which entry you ask for.

NOTE: this function is experimental and may change or be removed without notice.

```
void * BhkENTRY(BHK *hk, which)
```

BhkFLAGS

Return the BHK's flags.

NOTE: this function is experimental and may change or be removed without notice.

```
U32 BhkFLAGS(BHK *hk)
```

CALL_BLOCK_HOOKS

Call all the registered block hooks for type *which*. *which* is a preprocessing token; the type of *arg* depends on *which*.

NOTE: this function is experimental and may change or be removed without notice.

```
void CALL_BLOCK_HOOKS(which, arg)
```

CV reference counts and CvOUTSIDE**CvWEAKOUTSIDE**

Each CV has a pointer, `CvOUTSIDE()`, to its lexically enclosing CV (if any). Because pointers to anonymous sub prototypes are stored in `& pad` slots, it is possible to get a circular reference, with the parent pointing to the child and vice-versa. To avoid the ensuing memory leak, we do not increment the reference count of the CV pointed to by `CvOUTSIDE` in the *one specific instance* that the parent has a `& pad` slot pointing back to us. In this case, we set the `CvWEAKOUTSIDE` flag in the child. This allows us to determine under what circumstances we should decrement the refcount of the parent when freeing the child.

There is a further complication with non-closure anonymous subs (i.e. those that do not refer to any lexicals outside that sub). In this case, the anonymous prototype is shared rather than being cloned. This has the consequence that the parent may be freed while there are still active children, eg

```
BEGIN { $a = sub { eval '$x' } }
```

In this case, the `BEGIN` is freed immediately after execution since there are no active references to it: the anon sub prototype has `CvWEAKOUTSIDE` set since it's not a closure, and `$a` points to the same CV, so it doesn't contribute to `BEGIN`'s refcount either. When `$a` is executed, the `eval '$x'` causes the chain of `CvOUTSIDEs` to be followed, and the freed `BEGIN` is accessed.

To avoid this, whenever a CV and its associated pad is freed, any `&` entries in the pad are explicitly removed from the pad, and if the refcount of the pointed-to anon sub is

still positive, then that child's `CvOUTSIDE` is set to point to its grandparent. This will only occur in the single specific case of a non-closure anon prototype having one or more active references (such as `$a` above).

One other thing to consider is that a CV may be merely undefined rather than freed, eg `undef &foo`. In this case, its `refcount` may not have reached zero, but we still delete its `pad` and its `CvROOT` etc. Since various children may still have their `CvOUTSIDE` pointing at this undefined CV, we keep its own `CvOUTSIDE` for the time being, so that the chain of lexical scopes is unbroken. For example, the following should print 123:

```
my $x = 123;
sub tmp { sub { eval '$x' } }
my $a = tmp();
undef &tmp;
print $a->();
```

```
bool CvWEAKOUTSIDE(CV *cv)
```

Embedding Functions

`cv_dump`

dump the contents of a CV

```
void cv_dump(CV *cv, const char *title)
```

`do_dump_pad`

Dump the contents of a padlist

```
void do_dump_pad(I32 level, PerlIO *file,
                 PADLIST *padlist, int full)
```

`intro_my`

"Introduce" my variables to visible status.

```
U32 intro_my()
```

`padlist_dup`

Duplicates a pad.

```
AV * padlist_dup(AV *srcpad, CLONE_PARAMS *param)
```

`pad_alloc_name`

Allocates a place in the currently-compiling pad (via *"pad_alloc" in perlapi*) and then stores a name for that entry. *namesv* is adopted and becomes the name entry; it must already contain the name string and be sufficiently upgraded. *typestash* and *ourstash* and the `padadd_STATE` flag get added to *namesv*. None of the other processing of *"pad_add_name_pvn" in perlapi* is done. Returns the offset of the allocated pad slot.

```
PADOFFSET pad_alloc_name(SV *namesv, U32 flags,
                          HV *typestash, HV *ourstash)
```

`pad_block_start`

Update the pad compilation state variables on entry to a new block

```
void pad_block_start(int full)
```

`pad_check_dup`

Check for duplicate declarations: report any of:

- * a my in the current scope with the same name;
- * an our (anywhere in the pad) with the same name and the same stash as C<ourstash>

is_our indicates that the name to check is an 'our' declaration.

```
void pad_check_dup(SV *name, U32 flags,
                  const HV *ourstash)
```

pad_findlex

Find a named lexical anywhere in a chain of nested pads. Add fake entries in the inner pads if it's found in an outer one.

Returns the offset in the bottom pad of the lex or the fake lex. cv is the CV in which to start the search, and seq is the current cop_seq to match against. If warn is true, print appropriate warnings. The out_* vars return values, and so are pointers to where the returned values should be stored. out_capture, if non-null, requests that the innermost instance of the lexical is captured; out_name_sv is set to the innermost matched namesv or fake namesv; out_flags returns the flags normally associated with the IVX field of a fake namesv.

Note that pad_findlex() is recursive; it recurses up the chain of CVs, then comes back down, adding fake entries as it goes. It has to be this way because fake namesvs in anon prototypes have to store in xlow the index into the parent pad.

```
PADOFFSET pad_findlex(const char *namepv,
                    STRLEN namelen, U32 flags,
                    const CV* cv, U32 seq, int warn,
                    SV** out_capture,
                    SV** out_name_sv, int *out_flags)
```

pad_fixup_inner_anons

For any anon CVs in the pad, change CvOUTSIDE of that CV from old_cv to new_cv if necessary. Needed when a newly-compiled CV has to be moved to a pre-existing CV struct.

```
void pad_fixup_inner_anons(PADLIST *padlist,
                          CV *old_cv, CV *new_cv)
```

pad_free

Free the SV at offset po in the current pad.

```
void pad_free(PADOFFSET po)
```

pad_leavemy

Cleanup at end of scope during compilation: set the max seq number for lexicals in this scope and warn of any lexicals that never got introduced.

```
void pad_leavemy()
```

pad_push

Push a new pad frame onto the padlist, unless there's already a pad at this depth, in which case don't bother creating a new one. Then give the new pad an @_ in slot zero.

```
void pad_push(PADLIST *padlist, int depth)
```

pad_reset

Mark all the current temporaries for reuse

```
void pad_reset()
```

pad_swipe

Abandon the tmp in the current pad at offset *po* and replace with a new one.

```
void pad_swipe(PADOFFSET po, bool refadjust)
```

Functions in file op.c**core_prototype**

This function assigns the prototype of the named core function to *sv*, or to a new mortal SV if *sv* is NULL. It returns the modified *sv*, or NULL if the core function has no prototype. *code* is a code as returned by `keyword()`. It must be negative and unequal to `-KEY_CORE`.

```
SV * core_prototype(SV *sv, const char *name,
                   const int code,
                   int * const opnum)
```

Functions in file pp_ctl.c**docatch**

Check for the cases 0 or 3 of `cur_env.je_ret`, only used inside an eval context.

0 is used as continue inside eval,

3 is used for a die caught by an inner eval - continue inner loop

See `cop.h`: `je_mustcatch`, when set at any runlevel to TRUE, means eval ops must establish a local `jmpenv` to handle exception traps.

```
OP* docatch(OP *o)
```

GV Functions**gv_try_downgrade**

If the typeglob *gv* can be expressed more succinctly, by having something other than a real GV in its place in the stash, replace it with the optimised form. Basic requirements for this are that *gv* is a real typeglob, is sufficiently ordinary, and is only referenced from its package. This function is meant to be used when a GV has been looked up in part to see what was there, causing upgrading, but based on what was found it turns out that the real GV isn't required after all.

If *gv* is a completely empty typeglob, it is deleted from the stash.

If *gv* is a typeglob containing only a sufficiently-ordinary constant sub, the typeglob is replaced with a scalar-reference placeholder that more compactly represents the same thing.

NOTE: this function is experimental and may change or be removed without notice.

```
void gv_try_downgrade(GV* gv)
```

Hash Manipulation Functions**hv_ename_add**

Adds a name to a stash's internal list of effective names. See `hv_ename_delete`.

This is called when a stash is assigned to a new location in the symbol table.

```
void hv_ename_add(HV *hv, const char *name, U32 len,
```

U32 flags)

`hv_ename_delete`

Removes a name from a stash's internal list of effective names. If this is the name returned by `HvENAME`, then another name in the list will take its place (`HvENAME` will use it).

This is called when a stash is deleted from the symbol table.

```
void hv_ename_delete(HV *hv, const char *name,
                    U32 len, U32 flags)
```

`refcounted_he_chain_2hv`

Generates and returns a `HV *` representing the content of a `refcounted_he` chain. *flags* is currently unused and must be zero.

```
HV * refcounted_he_chain_2hv(
    const struct refcounted_he *c, U32 flags
)
```

`refcounted_he_fetch_pv`

Like `refcounted_he_fetch_pvn`, but takes a nul-terminated string instead of a string/length pair.

```
SV * refcounted_he_fetch_pv(
    const struct refcounted_he *chain,
    const char *key, U32 hash, U32 flags
)
```

`refcounted_he_fetch_pvn`

Search along a `refcounted_he` chain for an entry with the key specified by *keypv* and *keylen*. If *flags* has the `REFCOUNTED_HE_KEY_UTF8` bit set, the key octets are interpreted as UTF-8, otherwise they are interpreted as Latin-1. *hash* is a precomputed hash of the key string, or zero if it has not been precomputed. Returns a mortal scalar representing the value associated with the key, or `&PL_sv_placeholder` if there is no value associated with the key.

```
SV * refcounted_he_fetch_pvn(
    const struct refcounted_he *chain,
    const char *keypv, STRLEN keylen, U32 hash,
    U32 flags
)
```

`refcounted_he_fetch_pvs`

Like `refcounted_he_fetch_pvn`, but takes a literal string instead of a string/length pair, and no precomputed hash.

```
SV * refcounted_he_fetch_pvs(
    const struct refcounted_he *chain,
    const char *key, U32 flags
)
```

`refcounted_he_fetch_sv`

Like `refcounted_he_fetch_pvn`, but takes a Perl scalar instead of a string/length pair.

```
SV * refcounted_he_fetch_sv(
    const struct refcounted_he *chain, SV *key,
```

```
    U32 hash, U32 flags
)
```

refcounted_he_free

Decrements the reference count of a `refcounted_he` by one. If the reference count reaches zero the structure's memory is freed, which (recursively) causes a reduction of its parent `refcounted_he`'s reference count. It is safe to pass a null pointer to this function: no action occurs in this case.

```
void refcounted_he_free(struct refcounted_he *he)
```

refcounted_he_inc

Increment the reference count of a `refcounted_he`. The pointer to the `refcounted_he` is also returned. It is safe to pass a null pointer to this function: no action occurs and a null pointer is returned.

```
struct refcounted_he * refcounted_he_inc(
    struct refcounted_he *he
)
```

refcounted_he_new_pv

Like `refcounted_he_new_pvn`, but takes a nul-terminated string instead of a string/length pair.

```
struct refcounted_he * refcounted_he_new_pv(
    struct refcounted_he *parent,
    const char *key, U32 hash,
    SV *value, U32 flags
)
```

refcounted_he_new_pvn

Creates a new `refcounted_he`. This consists of a single key/value pair and a reference to an existing `refcounted_he` chain (which may be empty), and thus forms a longer chain. When using the longer chain, the new key/value pair takes precedence over any entry for the same key further along the chain.

The new key is specified by `keypv` and `keylen`. If `flags` has the `REFCOUNTED_HE_KEY_UTF8` bit set, the key octets are interpreted as UTF-8, otherwise they are interpreted as Latin-1. `hash` is a precomputed hash of the key string, or zero if it has not been precomputed.

`value` is the scalar value to store for this key. `value` is copied by this function, which thus does not take ownership of any reference to it, and later changes to the scalar will not be reflected in the value visible in the `refcounted_he`. Complex types of scalar will not be stored with referential integrity, but will be coerced to strings. `value` may be either null or `&PL_sv_placeholder` to indicate that no value is to be associated with the key; this, as with any non-null value, takes precedence over the existence of a value for the key further along the chain.

`parent` points to the rest of the `refcounted_he` chain to be attached to the new `refcounted_he`. This function takes ownership of one reference to `parent`, and returns one reference to the new `refcounted_he`.

```
struct refcounted_he * refcounted_he_new_pvn(
    struct refcounted_he *parent,
    const char *keypv,
    STRLEN keylen, U32 hash,
    SV *value, U32 flags
)
```

)

refcounted_he_new_pvs

Like *refcounted_he_new_pvn*, but takes a literal string instead of a string/length pair, and no precomputed hash.

```
struct refcounted_he * refcounted_he_new_pvs(
    struct refcounted_he *parent,
    const char *key, SV *value,
    U32 flags
)
```

refcounted_he_new_sv

Like *refcounted_he_new_pvn*, but takes a Perl scalar instead of a string/length pair.

```
struct refcounted_he * refcounted_he_new_sv(
    struct refcounted_he *parent,
    SV *key, U32 hash, SV *value,
    U32 flags
)
```

IO Functions

start_glob

Function called by *do_readline* to spawn a glob (or do the glob inside perl on VMS). This code used to be inline, but now perl uses `File::Glob` this glob starter is only used by *miniperl* during the build process. Moving it away shrinks *pp_hot.c*; shrinking *pp_hot.c* helps speed perl up.

NOTE: this function is experimental and may change or be removed without notice.

```
PerlIO* start_glob(SV *tmpglob, IO *io)
```

Magical Functions

magic_clearhint

Triggered by a delete from `%^H`, records the key to `PL_compiling.cop_hints_hash`.

```
int magic_clearhint(SV* sv, MAGIC* mg)
```

magic_clearhints

Triggered by clearing `%^H`, resets `PL_compiling.cop_hints_hash`.

```
int magic_clearhints(SV* sv, MAGIC* mg)
```

magic_methcall

Invoke a magic method (like `FETCH`).

`sv` and `mg` are the tied thingy and the tie magic.

`meth` is the name of the method to call.

`argc` is the number of args (in addition to `$self`) to pass to the method.

The flags can be:

<code>G_DISCARD</code>	invoke method with <code>G_DISCARD</code> flag and don't return a value
<code>G_UNDEF_FILL</code>	fill the stack with <code>argc</code> pointers to <code>PL_sv_undef</code>

The arguments themselves are any values following the `flags` argument.

Returns the SV (if any) returned by the method, or NULL on failure.

```
SV* magic_methcall(SV *sv, const MAGIC *mg,
                  const char *meth, U32 flags,
                  U32 argc, ...)
```

magic_sethint

Triggered by a store to `%^H`, records the key/value pair to `PL_compiling.cop_hints_hash`. It is assumed that hints aren't storing anything that would need a deep copy. Maybe we should warn if we find a reference.

```
int magic_sethint(SV* sv, MAGIC* mg)
```

mg_localize

Copy some of the magic from an existing SV to new localized version of that SV. Container magic (eg `%ENV`, `$1`, `tie`) gets copied, value magic doesn't (eg `taint`, `pos`).

If `setmagic` is false then no set magic will be called on the new (empty) SV. This typically means that assignment will soon follow (e.g. `'local $x = $y'`), and that will handle the magic.

```
void mg_localize(SV* sv, SV* nsv, bool setmagic)
```

MRO Functions

mro_get_linear_isa_dfs

Returns the Depth-First Search linearization of `@ISA` the given stash. The return value is a read-only AV*. `level` should be 0 (it is used internally in this function's recursion).

You are responsible for `SvREFCNT_inc()` on the return value if you plan to store it anywhere semi-permanently (otherwise it might be deleted out from under you the next time the cache is invalidated).

```
AV* mro_get_linear_isa_dfs(HV* stash, U32 level)
```

mro_isa_changed_in

Takes the necessary steps (cache invalidations, mostly) when the `@ISA` of the given package has changed. Invoked by the `setisa` magic, should not need to invoke directly.

```
void mro_isa_changed_in(HV* stash)
```

mro_package_moved

Call this function to signal to a stash that it has been assigned to another spot in the stash hierarchy. `stash` is the stash that has been assigned. `oldstash` is the stash it replaces, if any. `gv` is the glob that is actually being assigned to.

This can also be called with a null first argument to indicate that `oldstash` has been deleted.

This function invalidates isa caches on the old stash, on all subpackages nested inside it, and on the subclasses of all those, including non-existent packages that have corresponding entries in `stash`.

It also sets the effective names (`HvENAME`) on all the stashes as appropriate.

If the `gv` is present and is not in the symbol table, then this function simply returns. This checked will be skipped if `flags & 1`.

```
void mro_package_moved(HV * const stash,
```

```
HV * const oldstash,
const GV * const gv,
U32 flags)
```

Optree Manipulation Functions

finalize_optree

This function finalizes the optree. Should be called directly after the complete optree is built. It does some additional checking which can't be done in the normal `ck_XXX` functions and makes the tree thread-safe.

```
void finalize_optree(OP* o)
```

Pad Data Structures

CX_CURPAD_SAVE

Save the current pad in the given context block structure.

```
void CX_CURPAD_SAVE(struct context)
```

CX_CURPAD_SV

Access the SV at offset `po` in the saved current pad in the given context block structure (can be used as an lvalue).

```
SV * CX_CURPAD_SV(struct context, PADOFFSET po)
```

PAD_BASE_SV

Get the value from slot `po` in the base (DEPTH=1) pad of a padlist

```
SV * PAD_BASE_SV(PADLIST padlist, PADOFFSET po)
```

PAD_CLONE_VARS

Clone the state variables associated with running and compiling pads.

```
void PAD_CLONE_VARS(PerlInterpreter *proto_perl,
CLONE_PARAMS* param)
```

PAD_COMPNAME_FLAGS

Return the flags for the current compiling pad name at offset `po`. Assumes a valid slot entry.

```
U32 PAD_COMPNAME_FLAGS(PADOFFSET po)
```

PAD_COMPNAME_GEN

The generation number of the name at offset `po` in the current compiling pad (lvalue). Note that `SvUVX` is hijacked for this purpose.

```
STRLEN PAD_COMPNAME_GEN(PADOFFSET po)
```

PAD_COMPNAME_GEN_set

Sets the generation number of the name at offset `po` in the current ling pad (lvalue) to `gen`. Note that `SvUV_set` is hijacked for this purpose.

```
STRLEN PAD_COMPNAME_GEN_set(PADOFFSET po, int gen)
```

PAD_COMPNAME_OURSTASH

Return the stash associated with an `our` variable. Assumes the slot entry is a valid

our lexical.

```
HV * PAD_COMPNAME_OURSTASH(PADOFFSET po)
```

PAD_COMPNAME_PV

Return the name of the current compiling pad name at offset `po`. Assumes a valid slot entry.

```
char * PAD_COMPNAME_PV(PADOFFSET po)
```

PAD_COMPNAME_TYPE

Return the type (stash) of the current compiling pad name at offset `po`. Must be a valid name. Returns null if not typed.

```
HV * PAD_COMPNAME_TYPE(PADOFFSET po)
```

pad_peg

When PERL_MAD is enabled, this is a small no-op function that gets called at the start of each pad-related function. It can be breakpointed to track all pad operations. The parameter is a string indicating the type of pad operation being performed.

NOTE: this function is experimental and may change or be removed without notice.

```
void pad_peg(const char *s)
```

PAD_RESTORE_LOCAL

Restore the old pad saved into the local variable `opad` by `PAD_SAVE_LOCAL()`

```
void PAD_RESTORE_LOCAL(PAD *opad)
```

PAD_SAVE_LOCAL

Save the current pad to the local variable `opad`, then make the current pad equal to `npad`

```
void PAD_SAVE_LOCAL(PAD *opad, PAD *npad)
```

PAD_SAVE_SETNULLPAD

Save the current pad then set it to null.

```
void PAD_SAVE_SETNULLPAD()
```

PAD_SETSV

Set the slot at offset `po` in the current pad to `sv`

```
SV * PAD_SETSV(PADOFFSET po, SV* sv)
```

PAD_SET_CUR

Set the current pad to be pad `n` in the padlist, saving the previous current pad. NB currently this macro expands to a string too long for some compilers, so it's best to replace it with

```
SAVECOMPPAD();  
PAD_SET_CUR_NOSAVE(padlist, n);
```

```
void PAD_SET_CUR(PADLIST padlist, I32 n)
```

PAD_SET_CUR_NOSAVE

like PAD_SET_CUR, but without the save

```
void PAD_SET_CUR_NOSAVE(PADLIST padlist, I32 n)
```

PAD_SV

Get the value at offset `po` in the current pad

```
void PAD_SV(PADOFFSET po)
```

PAD_SVl

Lightweight and lvalue version of PAD_SV. Get or set the value at offset `po` in the current pad. Unlike PAD_SV, does not print diagnostics with -DX. For internal use only.

```
SV * PAD_SVl(PADOFFSET po)
```

SAVECLEARSV

Clear the pointed to pad value on scope exit. (i.e. the runtime action of 'my')

```
void SAVECLEARSV(SV **svp)
```

SAVECOMPPAD

save PL_comppad and PL_curpad

```
void SAVECOMPPAD()
```

SAVEPADSV

Save a pad slot (used to restore after an iteration)

XXX DAPM it would make more sense to make the arg a PADOFFSET void
SAVEPADSV(PADOFFSET po)

Per-Interpreter Variables

PL_DBsingle

When Perl is run in debugging mode, with the **-d** switch, this SV is a boolean which indicates whether subs are being single-stepped. Single-stepping is automatically turned on after every step. This is the C variable which corresponds to Perl's \$DB::single variable. See PL_DBsub.

```
SV * PL_DBsingle
```

PL_DBsub

When Perl is run in debugging mode, with the **-d** switch, this GV contains the SV which holds the name of the sub being debugged. This is the C variable which corresponds to Perl's \$DB::sub variable. See PL_DBsingle.

```
GV * PL_DBsub
```

PL_DBtrace

Trace variable used when Perl is run in debugging mode, with the **-d** switch. This is the C variable which corresponds to Perl's \$DB::trace variable. See PL_DBsingle.

```
SV * PL_DBtrace
```

PL_dowarn

The C variable which corresponds to Perl's \$^W warning variable.

```
bool PL_dowarn
```

PL_last_in_gv

The GV which was last used for a filehandle input operation. (<FH>)

```
GV* PL_last_in_gv
```

PL_ofsgv

The glob containing the output field separator - * , in Perl space.

```
GV* PL_ofsgv
```

PL_rs

The input record separator - \$ / in Perl space.

```
SV* PL_rs
```

Stack Manipulation Macros

djSP

Declare Just SP. This is actually identical to dSP, and declares a local copy of perl's stack pointer, available via the SP macro. See SP. (Available for backward source code compatibility with the old (Perl 5.005) thread model.)

```
djSP;
```

LVRET

True if this op will be the return value of an lvalue subroutine

SV Manipulation Functions

sv_add_arena

Given a chunk of memory, link it to the head of the list of arenas, and split it into a list of free SVs.

```
void sv_add_arena(char *const ptr, const U32 size,  
                 const U32 flags)
```

sv_clean_all

Decrement the refcnt of each remaining SV, possibly triggering a cleanup. This function may have to be called multiple times to free SVs which are in complex self-referential hierarchies.

```
I32 sv_clean_all()
```

sv_clean_objs

Attempt to destroy all objects not yet freed.

```
void sv_clean_objs()
```

sv_free_arenas

Deallocate the memory used by all arenas. Note that all the individual SV heads and bodies within the arenas must already have been freed.

```
void sv_free_arenas()
```

SV-Body Allocation

sv_2num

Return an SV with the numeric value of the source SV, doing any necessary reference

or overload conversion. You must use the `SVNUM(sv)` macro to access this function.

NOTE: this function is experimental and may change or be removed without notice.

```
SV* sv_2num(SV *const sv)
```

`sv_ref`

Returns a SV describing what the SV passed in is a reference to.

```
SV* sv_ref(SV *dst, const SV *const sv,
           const int ob)
```

Unicode Support

`find_uninit_var`

Find the name of the undefined variable (if any) that caused the operator to issue a "Use of uninitialized value" warning. If `match` is true, only return a name if its value matches `uninit_sv`. So roughly speaking, if a unary operator (such as `OP_COS`) generates a warning, then following the direct child of the op may yield an `OP_PADSV` or `OP_GV` that gives the name of the undefined variable. On the other hand, with `OP_ADD` there are two branches to follow, so we only print the variable name if we get an exact match.

The name is returned as a mortal SV.

Assumes that `PL_op` is the op that originally triggered the error, and that `PL_comppad/PL_curpad` points to the currently executing pad.

NOTE: this function is experimental and may change or be removed without notice.

```
SV* find_uninit_var(const OP *const obase,
                   const SV *const uninit_sv,
                   bool top)
```

`report_uninit`

Print appropriate "Use of uninitialized variable" warning.

```
void report_uninit(const SV *uninit_sv)
```

Undocumented functions

The following functions are currently undocumented. If you use one of them, you may wish to consider creating and submitting documentation for it.

```
_add_range_to_invlist
_core_swash_init
_invlist_array_init
_invlist_contents
_invlist_intersection
_invlist_intersection_maybe_complement_2nd
_invlist_invert
_invlist_invert_prop
_invlist_populate_swatch
_invlist_subtract
_invlist_union
_invlist_union_maybe_complement_2nd
_is_utf8__perl_idstart
```

`_new_invlst`
`_swash_inversion_hash`
`_swash_to_invlst`
`_to_fold_latin1`
`_to_upper_title_latin1`
`aassign_common_vars`
`add_cp_to_invlst`
`addmad`
`allocmy`
`amagic_is_enabled`
`append_madprops`
`apply`
`av_reify`
`bind_match`
`block_end`
`block_start`
`boot_core_PerlIO`
`boot_core_UNIVERSAL`
`boot_core_mro`
`cando`
`check_utf8_print`
`ck_entersub_args_core`
`convert`
`coresub_op`
`create_eval_scope`
`cv_ckproto_len_flags`
`cvgv_set`
`cvstash_set`
`deb_stack_all`
`delete_eval_scope`
`die_unwind`
`do_aexec`
`do_aexec5`
`do_eof`
`do_exec`
`do_exec3`
`do_execfree`
`do_ipcctl`
`do_ipcget`
`do_msgrcv`
`do_msgsnd`
`do_ncmp`

do_op_xmldump
do_pmop_xmldump
do_print
do_readline
do_seek
do_semop
do_shmio
do_sysseek
do_tell
do_trans
do_vecget
do_vecset
do_vop
dofile
dump_all_perl
dump_packsubs_perl
dump_sub_perl
dump_sv_child
emulate_cop_io
feature_is_enabled
find_rundefsv2
find_script
free_tied_hv_pool
get_db_sub
get_debug_opts
get_hash_seed
get_invlist_iter_addr
get_invlist_len_addr
get_invlist_version_id_addr
get_invlist_zero_addr
get_no_modify
get_opargs
get_re_arg
getenv_len
hfree_next_entry
hv_backreferences_p
hv_kill_backrefs
hv_undef_flags
init_argv_symbols
init_dbargs
init_debugger
invert

invlist_array
invlist_clone
invlist_iterinit
invlist_len
invlist_max
invlist_set_len
invlist_trim
io_close
is_utf8_X_L
is_utf8_X_LV
is_utf8_X_LVT
is_utf8_X_LV_LVT_V
is_utf8_X_T
is_utf8_X_V
is_utf8_X_begin
is_utf8_X_extend
is_utf8_X_non_hangul
is_utf8_X_prepend
jmaybe
keyword
keyword_plugin_standard
list
localize
mad_free
madlex
madparse
magic_clear_all_env
magic_clearenv
magic_clearisa
magic_clearpack
magic_clearsig
magic_existspack
magic_freearylen_p
magic_freeovrld
magic_get
magic_getarylen
magic_getdefelem
magic_getnkeys
magic_getpack
magic_getpos
magic_getsig
magic_getsubstr

magic_gettaint
magic_getuvar
magic_getvec
magic_killbackrefs
magic_len
magic_nextpack
magic_regdata_cnt
magic_regdatum_get
magic_regdatum_set
magic_scalarpack
magic_set
magic_set_all_env
magic_setamagic
magic_setarylen
magic_setcollxfrm
magic_setdblne
magic_setdefelem
magic_setenv
magic_setisa
magic_setmglob
magic_setnkeys
magic_setpack
magic_setpos
magic_setregexp
magic_setsig
magic_setsubstr
magic_settaint
magic_setutf8
magic_setuvar
magic_setvec
magic_setvstring
magic_sizepack
magic_wipepack
malloc_good_size
malloced_size
mem_collxfrm
mode_from_discipline
more_bodies
mro_meta_dup
mro_meta_init
munged_qwlist_to_paren_list
my_attrs

my_betoh16
my_betoh32
my_betoh64
my_betohi
my_betohl
my_betohs
my_clearenv
my_htobe16
my_htobe32
my_htobe64
my_htobei
my_htobel
my_htobes
my_htole16
my_htole32
my_htole64
my_htolei
my_htolel
my_htoles
my_letoh16
my_letoh32
my_letoh64
my_letohi
my_letohl
my_letohs
my_lstat_flags
my_stat_flags
my_swabn
my_unexec
newATTRSUB_flags
newGP
newMADPROP
newMADsv
newTOKEN
newXS_len_flags
new_warnings_bitfield
nextargv
oopsAV
oopsHV
op_clear
op_const_sv
op_getmad

op_getmad_weak
op_integerize
op_lvalue_flags
op_refcnt_dec
op_refcnt_inc
op_std_init
op_xmldump
package
package_version
parse_unicode_opts
parser_free
peep
pending_Slabs_to_ro
pmop_xmldump
pmruntime
populate_isa
prepend_madprops
qerror
reg_named_buff
reg_named_buff_iter
reg_numbered_buff_fetch
reg_numbered_buff_length
reg_numbered_buff_store
reg_qr_package
reg_temp_copy
regcurly
regprop
report_evil_fh
report_redefined_cv
report_wrongway_fh
rpeep
rsignal_restore
rsignal_save
rxres_save
same_dirent
sawparens
scalar
scalarvoid
set_regclass_bit
sighandler
softref2xv
sub_crush_depth

sv_add_backref
sv_catxmlpv
sv_catxmlpvn
sv_catxmlsv
sv_compile_2op_is_broken
sv_del_backref
sv_free2
sv_kill_backrefs
sv_sethek
sv_setsv_cow
sv_unglob
sv_xmlpeek
tied_method
token_free
token_getmad
translate_substr_offsets
try_amagic_bin
try_amagic_un
unshare_hek
utilize
varname
vivify_defelem
vivify_ref
wait4pid
was_lvalue_sub
watch
write_to_stderr
xmldump_all
xmldump_all_perl
xmldump_eval
xmldump_form
xmldump_indent
xmldump_packsubs
xmldump_packsubs_perl
xmldump_sub
xmldump_sub_perl
xmldump_vindent
xs_apiversion_bootcheck
xs_version_bootcheck
yyerror
yyerror_pv
yyerror_pvn

yylex
yyparse
yyunlex

AUTHORS

The autodocumentation system was originally added to the Perl core by Benjamin Stuhl. Documentation is by whoever was kind enough to document their functions.

SEE ALSO

perlguts, perlapi