NAME

unw_step -- advance to next stack frame

SYNOPSIS

```
#include libunwind.h>
int unw_step(unw_cursor_t *cp);
```

DESCRIPTION

The unw_step() routine advances the unwind cursor cp to the next older, less deeply nested stack frame.

RETURN VALUE

On successful completion, unw_step() returns a positive value if the updated cursor refers to a valid stack frame, or 0 if the previous stack frame was the last frame in the chain. On error, the negative value of one of the error-codes below is returned.

THREAD AND SIGNAL SAFETY

unw_step() is thread-safe. If cursor cp is in the local address-space, this routine is also safe to use from a signal handler.

ERRORS

UNW_EUNSPEC

An unspecified error occurred.

UNW_ENOINFO

Libunwind was unable to locate the unwind-info needed to complete the operation.

UNW_EBADVERSION

The unwind-info needed to complete the operation has a version or a format that is not understood by libunwind.

UNW EINVALIDIP

The instruction-pointer ("program-counter") of the next stack frame is invalid (e.g., not properly aligned).

UNW_EBADFRAME

The next stack frame is invalid.

UNW ESTOPUNWIND

Returned if a call to find_proc_info() returned -UNW_ESTOPUNWIND.

In addition, unw_step() may return any error returned by the find_proc_info(), get_dyn_info_list_addr(), access_mem(), access_reg(), or access_fpreg() call-backs (see unw_create_addr_space(3)).

SEE ALSO

libunwind(3), unw_create_addr_space(3)

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