NAME

unw_init_remote -- initialize cursor for remote unwinding

SYNOPSIS

#include <libunwind.h>

int unw_init_remote(unw_cursor_t *c, unw_addr_space_t as, void *arg);

DESCRIPTION

The unw_init_remote() routine initializes the unwind cursor pointed to by c for unwinding in the address space identified by as. The as argument can either be set to unw_local_addr_space (local address space) or to an arbitrary address space created with unw_create_addr_space().

The arg opaque pointer tells the address space exactly what entity should be unwound. For example, if unw_local_addr_space is passed in as, then arg needs to be a pointer to a context structure containing the machine-state of the initial stack frame. However, other address spaces may instead expect a process ID, a thread ID, or a pointer to an arbitrary structure which identifies the stack frame chain to be unwound. In other words, the interpretation of arg is entirely dependent on the address space in use; libunwind never interprets the argument in any way on its own.

Note that unw_init_remote() can be used to initiate unwinding in *any* process, including the local process in which the unwinder itself is running. However, for local unwinding, it is generally preferable to use unw_init_local() instead, because it is easier to use and because it may perform better.

RETURN VALUE

On successful completion, unw_init_remote() returns 0. Otherwise the negative value of one of the error-codes below is returned.

THREAD AND SIGNAL SAFETY

unw_init_remote() is thread safe. If the local address space is passed in argument as, this routine is also safe to use from a signal handler.

ERRORS

UNW_EINVAL
>   unw_init_remote() was called in a version of libunwind which supports local unwinding only (this normally happens when defining UNW_LOCAL_ONLY before including <libunwind.h> and then calling unw_init_remote()).

UNW_EUNSPEC
>   An unspecified error occurred.

UNW_EBADREG
     A register needed by unw_init_remote() wasn't accessible.

SEE ALSO
     libunwind(3libunwind), unw_create_addr_space(3libunwind), unw_init_local(3libunwind)

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