

**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` void-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(3)`, `unw_create_addr_space(3)`, `unw_init_local(3)`

**AUTHOR**

David Mosberger-Tang

Email: [dmosberger@gmail.com](mailto:dmosberger@gmail.com)

WWW: <http://www.nongnu.org/libunwind/>.