NAME

unw_set_caching_policy -- set unwind caching policy

SYNOPSIS

#include <libunwind.h>

int unw_set_caching_policy(unw_addr_space_t as, unw_caching_policy_t policy);

DESCRIPTION

The unw_set_caching_policy() routine sets the caching policy of address space as to the policy specified by argument policy. The policy argument can take one of three possible values:

UNW_CACHE_NONE

Turns off caching completely. This also implicitly flushes the contents of all caches as if unw_flush_cache() had been called.

UNW_CACHE_GLOBAL

Enables caching using a global cache that is shared by all threads. If global caching is unavailable or unsupported, libunwind may fall back on using a per-thread cache, as if UNW_CACHE_PER_THREAD had been specified.

UNW_CACHE_PER_THREAD

Enables caching using thread-local caches. If a thread-local caching are unavailable or unsupported, libunwind may fall back on using a global cache, as if UNW_CACHE_GLOBAL had been specified.

If caching is enabled, an application must be prepared to make appropriate calls to unw_flush_cache() whenever the target changes in a way that could affect the validity of cached information. For example, after unloading (removing) a shared library, unw_flush_cache() would have to be called (at least) for the address-range that was covered by the shared library.

For address spaces created via unw_create_addr_space(3), caching is turned off by default. For the local address space unw_local_addr_space, caching is turned on by default.

RETURN VALUE

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

THREAD AND SIGNAL SAFETY

unw_set_caching_policy() is thread-safe but *not* safe to use from a signal handler.

ERRORS

UNW_ENOMEM

    The desired caching policy could not be established because the application is out of memory.

SEE ALSO

libunwind(3), unw_create_addr_space(3), unw_set_cache_size(3), unw_flush_cache(3)

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