

NAME

unw_is_signal_frame -- check if current frame is a signal frame

SYNOPSIS

```
#include <libunwind.h>
```

```
int unw_is_signal_frame(unw_cursor_t *cp);
```

DESCRIPTION

The `unw_is_signal_frame()` routine returns a positive value if the current frame identified by `cp` is a signal frame, also known as a signal trampoline, and a value of 0 otherwise. For the purpose of this discussion, a signal frame is a frame that was created in response to a potentially asynchronous interruption. For UNIX and UNIX-like platforms, such frames are normally created by the kernel when delivering a signal. In a kernel environment, a signal frame might, for example, correspond to a frame created in response to a device interrupt.

Signal frames are somewhat unusual because the asynchronous nature of the events that create them require storing the contents of registers that are normally treated as scratch (“caller-saved”) registers.

RETURN VALUE

On successful completion, `unw_is_signal_frame()` returns a positive value if the current frame is a signal frame, or 0 if it is not. Otherwise, a negative value of one of the error codes below is returned.

THREAD AND SIGNAL SAFETY

`unw_is_signal_frame()` is thread safe as well as safe to use from a signal handler.

ERRORS

UNW_ENOINFO

Libunwind is unable to determine whether or not the current frame is a signal frame.

SEE ALSO

`libunwind(3libunwind)`, `unw_get_reg(3libunwind)`, `unw_set_reg(3libunwind)`,
`unw_get_fpreg(3libunwind)`, `unw_set_fpreg(3libunwind)`

AUTHOR

David Mosberger-Tang

Email: dmosberger@gmail.com

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