NAME

getunwind − copy the unwind data to caller's buffer

SYNOPSIS

#include <syscall.h>
#include <linux/unwind.h>

long getunwind (void **buf* **, size_t** *buf_size***);**

DESCRIPTION

The **sys_getunwind** function returns size of unwind table, which describes gate page (kernel code that is mapped into user space).

The unwind data is copied to the buffer *buf*, which has size *buf_size*. The data is copied only if *buf_size* is greater than or equal to the size of the unwind data and *buf* is not NULL. The system call returns the size of the unwind data in both cases.

The first part of the unwind data contains an unwind table. The rest contains the associated unwind info in random order. The unwind table contains a table looking like:

```
u64 start;      (64-bit address of start of function)
u64 end;        (64-bit address of start of function)
u64 info;       (BUF-relative offset to unwind info)
```

An entry with a START address of zero is the end of table. For more information about the format you can see the IA-64 Software Conventions and Runtime Architecture.

RETURN VALUE

The **sys_getunwind** function returns size of unwind table.

ERRORS

The **sys_getunwind** function fails with **EFAULT** if the unwind info can't be stored in the space specified by the *buf* argument.

AVAILABILITY

This system call is available only on the IA-64 architecture.

APPLICATION USAGE

This system call has been deprecated. It's highly recommended to get at the kernel's unwind info by the gate DSO. The address of the ELF header for this DSO is passed to user level via AT_SYSINFO_EHDR.

The system call is not available to application programs as a function; it can be called using the **syscall**(2) function.

SEE ALSO

syscall(2),