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Linux Ubuntu 26.04 Manual Pages on command 'get_kernel_syms.2'

\$ man get_kernel_syms.2

get_kernel_syms(2) System Calls Manual get_kernel_syms(2)

NAME

get_kernel_syms - retrieve exported kernel and module symbols

SYNOPSIS

```
#include <linux/module.h>
```

```
[[deprecated]] int get_kernel_syms(struct kernel_sym *table);
```

DESCRIPTION

Note: This system call is present only before Linux 2.6.

If table is NULL, get_kernel_syms() returns the number of symbols available for query. Oth?

erwise, it fills in a table of structures:

```
struct kernel_sym {  
    unsigned long value;  
    char      name[60];  
};
```

The symbols are interspersed with magic symbols of the form #module-name with the kernel having an empty name. The value associated with a symbol of this form is the address at which the module is loaded.

The symbols exported from each module follow their magic module tag and the modules are re? turned in the reverse of the order in which they were loaded.

RETURN VALUE

On success, returns the number of symbols copied to table. On error, -1 is returned and er?

rno is set to indicate the error.

ERRORS

There is only one possible error return:

ENOSYS `get_kernel_syms()` is not supported in this version of the kernel.

STANDARDS

Linux.

HISTORY

Removed in Linux 2.6.

This obsolete system call is not supported by glibc. No declaration is provided in glibc headers, but, through a quirk of history, glibc versions before glibc 2.23 did export an ABI for this system call. Therefore, in order to employ this system call, it was sufficient to manually declare the interface in your code; alternatively, you could invoke the system call using `syscall(2)`.

BUGS

There is no way to indicate the size of the buffer allocated for `table`. If symbols have been added to the kernel since the program queried for the symbol table size, memory will be corrupted.

The length of exported symbol names is limited to 59 characters.

Because of these limitations, this system call is deprecated in favor of `query_module(2)` (which is itself nowadays deprecated in favor of other interfaces described on its manual page).

SEE ALSO

`create_module(2)`, `delete_module(2)`, `init_module(2)`, `query_module(2)`

Linux man-pages 6.17

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`get_kernel_syms(2)`