NAME

```
modify_ldt - get or set ldt
```

SYNOPSIS

```
#include <sys/types.h>
```

int modify ldt(int func, void *ptr, unsigned long bytecount);

Note: There is no glibc wrapper for this system call; see NOTES.

DESCRIPTION

modify_ldt() reads or writes the local descriptor table (ldt) for a process. The ldt is a perprocess memory management table used by the i386 processor. For more information on this table, see an Intel 386 processor handbook.

When func is 0, **modify_ldt**() reads the ldt into the memory pointed to by ptr. The number of bytes read is the smaller of bytecount and the actual size of the ldt.

When func is 1, **modify_ldt**() modifies one ldt entry. ptr points to a user_desc structure and bytecount must equal the size of this structure.

The $user\ desc\ structure\ is\ defined\ in\ < asm/ldt.h>$ as:

```
struct user_desc {
    unsigned int entry_number;
    unsigned long base_addr;
    unsigned int limit;
    unsigned int seg_32bit:1;
    unsigned int contents:2;
    unsigned int read_exec_only:1;
    unsigned int limit_in_pages:1;
    unsigned int seg_not_present:1;
    unsigned int useable:1;
}:
```

In Linux 2.4 and earlier, this structure was named modify ldt ldt s.

RETURN VALUE

On success, **modify_ldt**() returns either the actual number of bytes read (for reading) or 0 (for writing). On failure, **modify_ldt**() returns -1 and sets *errno* to indicate the error.

ERRORS

EFAULT

ptr points outside the address space.

EINVAL

ptr is 0, or func is 1 and bytecount is not equal to the size of the structure $mod-ify_ldt_ldt_s$, or func is 1 and the new ldt entry has invalid values.

ENOSYS

func is neither 0 nor 1.

CONFORMING TO

This call is Linux-specific and should not be used in programs intended to be portable.

NOTES

Glibc does not provide a wrapper for this system call; call it using syscall(2).

SEE ALSO

vm86(2)

COLOPHON

This page is part of release 3.74 of the Linux man-pages project. A description of the project, information about reporting bugs, and the latest version of this page, can be found at

http://www.kernel.org/doc/man-pages/.