

NAME

modstat - get status of kernel module

LIBRARY

Standard C Library (libc, -lc)

SYNOPSIS

```
#include <sys/param.h>
#include <sys/module.h>
```

int

```
modstat(int modid, struct module_stat *stat);
```

DESCRIPTION

The **modstat()** system call writes the info for the kernel module referred to by *modid* into *stat*.

```
struct module_stat {
    int    version;    /* set to sizeof(module_stat) */
    char   name[MAXMODNAME];
    int    refs;
    int    id;
    modspecific_t data;
};
typedef union modspecific {
    int    intval;
    u_int  uintval;
    long   longval;
    u_long ulongval;
} modspecific_t;
```

version This field is set to the size of the structure mentioned above by the code calling **modstat()**, and not **modstat()** itself.

name The name of the module referred to by *modid*.

refs The number of modules referenced by *modid*.

id The id of the module specified in *modid*.

data Module specific data.

RETURN VALUES

The **modstat()** function returns the value 0 if successful; otherwise the value -1 is returned and the global variable *errno* is set to indicate the error.

ERRORS

The information for the module referred to by *modid* is filled into the structure pointed to by *stat* unless:

- | | |
|----------|---|
| [ENOENT] | The module was not found (probably not loaded). |
| [EINVAL] | The version specified in the <i>version</i> field of <i>stat</i> is not the proper version. You would need to rebuild world, the kernel, or your application, if this error occurs, given that you did properly fill in the <i>version</i> field. |
| [EFAULT] | There was a problem copying one, some, or all of the fields into <i>stat</i> in the <i>copyout(9)</i> function. |

SEE ALSO

kldfind(2), *kldfirstmod(2)*, *kldload(2)*, *kldnext(2)*, *kldstat(2)*, *kldsym(2)*, *kldunload(2)*, *modfind(2)*, *modfnnext(2)*, *modnext(2)*, *kld(4)*, *kldstat(8)*

HISTORY

The **kld** interface first appeared in FreeBSD 3.0.