

NAME

insque, **remque** - doubly-linked list management

LIBRARY

Standard C Library (libc, -lc)

SYNOPSIS

```
#include <search.h>
```

void

```
insque(void *element1, void *pred);
```

void

```
remque(void *element);
```

DESCRIPTION

The **insque()** and **remque()** functions encapsulate the ever-repeating task of doing insertion and removal operations on doubly linked lists. The functions expect their arguments to point to a structure whose first and second members are pointers to the next and previous element, respectively. The **insque()** function also allows the *pred* argument to be a NULL pointer for the initialization of a new list's head element.

STANDARDS

The **insque()** and **remque()** functions conform to IEEE Std 1003.1-2001 ("POSIX.1").

HISTORY

The **insque()** and **remque()** functions appeared in 4.2BSD. In FreeBSD 5.0, they reappeared conforming to IEEE Std 1003.1-2001 ("POSIX.1").