

**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").