NAME

bsearch − binary search of a sorted array.

SYNOPSIS

#include <stdlib.h>

void *bsearch(const void * *key* **, const void *** *base* **, size_t** *nmemb* **,**
         size_t *size* **, int (*** *compar* **)(const void *, const void *));**

DESCRIPTION

The **bsearch()** function searches an array of *nmemb* objects, the initial member of which is pointed to by *base*, for a member that matches the object pointed to by *key*. The size of each member of the array is specified by *size*.

The contents of the array should be in ascending sorted order according to the comparison function referenced by *compar*. The *compar* routine is expected to have two arguments which point to the *key* object and to an array member, in that order, and should return an integer less than, equal to, or greater than zero if the *key* object is found, respectively, to be less than, to match, or be greater than the array member.

RETURN VALUE

The **bsearch()** function returns a pointer to a matching member of the array, or NULL if no match is found. If there are multiple elements that match the key, the element returned is unspecified.

CONFORMING TO

SVID 3, BSD 4.3, ISO 9899

SEE ALSO

qsort(3)