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Red Hat Enterprise Linux Release 9.2 Manual Pages on 'search.h.0p' command

\$ man search.h.0p

search.h(0P) POSIX Programmer's Manual search.h(0P)

PROLOG

This manual page is part of the POSIX Programmer's Manual. The Linux implementation of this interface may differ (consult the corresponding Linux manual page for details of Linux behavior), or the interface may not be implemented on Linux.

NAME

search.h ? search tables

SYNOPSIS

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

DESCRIPTION

The <search.h> header shall define the ENTRY type for structure entry which shall include the following members:

```
char *key
```

```
void *data
```

and shall define ACTION and VISIT as enumeration data types through type definitions as follows:

```
enum { FIND, ENTER } ACTION;
```

```
enum { preorder, postorder, endorder, leaf } VISIT;
```

The <search.h> header shall define the size_t type as described in <sys/types.h>.

The following shall be declared as functions and may also be defined as macros. Function prototypes shall be provided.

```

int  hcreate(size_t);
void hdestroy(void);
ENTRY *hsearch(ENTRY, ACTION);
void  insque(void *, void *);
void *lfind(const void *, const void *, size_t *,
           size_t, int (*)(const void *, const void *));
void *lsearch(const void *, void *, size_t *,
             size_t, int (*)(const void *, const void *));
void  remque(void *);
void *tdelete(const void *restrict, void **restrict,
             int (*)(const void *, const void *));
void *tfind(const void *, void *const *,
           int (*)(const void *, const void *));
void *tsearch(const void *, void **,
            int (*)(const void *, const void *));
void  twalk(const void *,
           void (*)(const void *, VISIT, int ));

```

The following sections are informative.

APPLICATION USAGE

None.

RATIONALE

None.

FUTURE DIRECTIONS

None.

SEE ALSO

<sys_types.h>

The System Interfaces volume of POSIX.1?2017, hcreate(), insque(), lsearch(), tdelete()

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2017

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