

NAME

memcmp - compare memory areas

SYNOPSIS

```
#include <string.h>
```

```
int memcmp(const void *s1, const void *s2, size_t n);
```

DESCRIPTION

The **memcmp()** function compares the first *n* bytes (each interpreted as *unsigned char*) of the memory areas *s1* and *s2*.

RETURN VALUE

The **memcmp()** function returns an integer less than, equal to, or greater than zero if the first *n* bytes of *s1* is found, respectively, to be less than, to match, or be greater than the first *n* bytes of *s2*.

For a nonzero return value, the sign is determined by the sign of the difference between the first pair of bytes (interpreted as *unsigned char*) that differ in *s1* and *s2*.

ATTRIBUTES

Multithreading (see pthreads(7))

The **memcmp()** function is thread-safe.

CONFORMING TO

SVr4, 4.3BSD, C89, C99, POSIX.1-2001.

SEE ALSO

[bcmp\(3\)](#), [strcascmp\(3\)](#), [strcmp\(3\)](#), [strcoll\(3\)](#), [strncascmp\(3\)](#), [strncmp\(3\)](#), [wmemcmp\(3\)](#)

COLOPHON

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