#### **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), strcasecmp(3), strcmp(3), strcoll(3), strncasecmp(3), strncmp(3), wmemcmp(3)

### **COLOPHON**

This page is part of release 3.74 of the Linux man-pages project. A description of the project, information about reporting bugs, and the latest version of this page, can be found at <a href="http://www.kernel.org/doc/man-pages/">http://www.kernel.org/doc/man-pages/</a>.

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