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Rocky Enterprise Linux 9.2 Manual Pages on command 'bswap.3'

\$ man bswap.3

BSWAP(3)

Linux Programmer's Manual

BSWAP(3)

NAME

bswap_16, bswap_32, bswap_64 - reverse order of bytes

SYNOPSIS

#include <byteswap.h>

 $bswap_16(x);$

bswap_32(x);

bswap_64(x);

DESCRIPTION

These macros return a value in which the order of the bytes in their

2-, 4-, or 8-byte arguments is reversed.

RETURN VALUE

These macros return the value of their argument with the bytes re? versed.

ERRORS

These macros always succeed.

CONFORMING TO

These macros are GNU extensions.

EXAMPLES

```
The program below swaps the bytes of the 8-byte integer supplied as its
    command-line argument. The following shell session demonstrates the
    use of the program:
      $ ./a.out 0x0123456789abcdef
      0x123456789abcdef ==> 0xefcdab8967452301
 Program source
    #include <stdio.h>
    #include <stdint.h>
    #include <stdlib.h>
    #include <inttypes.h>
    #include <byteswap.h>
    int
    main(int argc, char *argv[])
    {
      uint64_t x;
      if (argc != 2) {
         fprintf(stderr, "Usage: %s <num>\n", argv[0]);
         exit(EXIT_FAILURE);
      }
      x = strtoull(argv[1], NULL, 0);
      printf("\%#" PRIx64" ==> \%#" PRIx64" \n", x, bswap_64(x));
      exit(EXIT_SUCCESS);
    }
SEE ALSO
    byteorder(3), endian(3)
COLOPHON
    This page is part of release 5.10 of the Linux man-pages project. A
    description of the project, information about reporting bugs, and the
    latest
            version
                           this page, can be
                                                   found at
    https://www.kernel.org/doc/man-pages/.
Linux
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                                                 BSWAP(3)
```