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Rocky Enterprise Linux 9.2 Manual Pages on command 'bswap_64.3'

$ man bswap_64.3

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

```c
#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   of   this   page,   can   be   found   at https://www.kernel.org/doc/man-pages/.