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 ar?

    guments is reversed.

RETURN VALUE

    These macros return the value of their argument with the bytes reversed.

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 argu?

    ment. 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/.

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