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# Red Hat Enterprise Linux Release 9.2 Manual Pages on 'bswap\_32.3' command

### \$ man bswap\_32.3

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:

```
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
                    of this page, can be found at
           version
    https://www.kernel.org/doc/man-pages/.
Linux
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                                                 BSWAP(3)
```