



Full credit is given to the above companies including the OS that this PDF file was generated!

Rocky Enterprise Linux 9.2 Manual Pages on command 'BUF_reverse.3ossl'

\$ man BUF_reverse.3ossl

BUF_MEM_NEW(3ossl) OpenSSL BUF_MEM_NEW(3ossl)

NAME

BUF_MEM_new, BUF_MEM_new_ex, BUF_MEM_free, BUF_MEM_grow,
BUF_MEM_grow_clean, BUF_reverse - simple character array structure

SYNOPSIS

```
#include <openssl/buffer.h>
```

```
BUF_MEM *BUF_MEM_new(void);
```

```
BUF_MEM *BUF_MEM_new_ex(unsigned long flags);
```

```
void BUF_MEM_free(BUF_MEM *a);
```

```
int BUF_MEM_grow(BUF_MEM *str, int len);
```

```
size_t BUF_MEM_grow_clean(BUF_MEM *str, size_t len);
```

```
void BUF_reverse(unsigned char *out, const unsigned char *in, size_t size);
```

DESCRIPTION

The buffer library handles simple character arrays. Buffers are used for various purposes in the library, most notably memory BIOs.

`BUF_MEM_new()` allocates a new buffer of zero size.

`BUF_MEM_new_ex()` allocates a buffer with the specified flags. The flag `BUF_MEM_FLAG_SECURE` specifies that the data pointer should be allocated on the secure heap; see `CRYPTO_secure_malloc(3)`.

`BUF_MEM_free()` frees up an already existing buffer. The data is zeroed before freeing up in case the buffer contains sensitive data.

`BUF_MEM_grow()` changes the size of an already existing buffer to `len`. Any data already in the buffer is preserved if it increases in size.

`BUF_MEM_grow_clean()` is similar to `BUF_MEM_grow()` but it sets any free'd or additionally-allocated memory to zero.

`BUF_reverse()` reverses `size` bytes at `in` into `out`. If `in` is `NULL`, the array is reversed in-place.

RETURN VALUES

`BUF_MEM_new()` returns the buffer or `NULL` on error.

`BUF_MEM_free()` has no return value.

`BUF_MEM_grow()` and `BUF_MEM_grow_clean()` return zero on error or the new size (i.e., `len`).

bio(7), CRYPTO_secure_malloc(3).

HISTORY

The BUF_MEM_new_ex() function was added in OpenSSL 1.1.0.

COPYRIGHT

Copyright 2000-2018 The OpenSSL Project Authors. All Rights Reserved.

Licensed under the Apache License 2.0 (the "License"). You may not use this file except in compliance with the License. You can obtain a copy in the file LICENSE in the source distribution or at <https://www.openssl.org/source/license.html>.

3.0.7 2023-07-13 BUF_MEM_NEW(3ossl)