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## ***Red Hat Enterprise Linux Release 9.2 Manual Pages on 'MDC2\_Final.3oss1' command***

***\$ man MDC2\_Final.3oss1***

MDC2\_INIT(3oss1)            OpenSSL            MDC2\_INIT(3oss1)

### NAME

MDC2, MDC2\_Init, MDC2\_Update, MDC2\_Final - MDC2 hash function

### SYNOPSIS

```
#include <openssl/mdc2.h>
```

The following functions have been deprecated since OpenSSL 3.0, and can be hidden entirely by defining OPENSSL\_API\_COMPAT with a suitable version value, see openssl\_user\_macros(7):

```
unsigned char *MDC2(const unsigned char *d, unsigned long n,  
                  unsigned char *md);
```

```
int MDC2_Init(MDC2_CTX *c);
```

```
int MDC2_Update(MDC2_CTX *c, const unsigned char *data,  
              unsigned long len);
```

```
int MDC2_Final(unsigned char *md, MDC2_CTX *c);
```

### DESCRIPTION

All of the functions described on this page are deprecated.

Applications should instead use EVP\_DigestInit\_ex(3),

EVP\_DigestUpdate(3) and EVP\_DigestFinal\_ex(3).

MDC2 is a method to construct hash functions with 128 bit output from block ciphers. These functions are an implementation of MDC2 with DES.

MDC2() computes the MDC2 message digest of the n bytes at d and places it in md (which must have space for MDC2\_DIGEST\_LENGTH == 16 bytes of output). If md is NULL, the digest is placed in a static array.

The following functions may be used if the message is not completely stored in memory:

MDC2\_Init() initializes a MDC2\_CTX structure.

MDC2\_Update() can be called repeatedly with chunks of the message to be hashed (len bytes at data).

MDC2\_Final() places the message digest in md, which must have space for MDC2\_DIGEST\_LENGTH == 16 bytes of output, and erases the MDC2\_CTX.

Applications should use the higher level functions EVP\_DigestInit(3) etc. instead of calling the hash functions directly.

## RETURN VALUES

MDC2() returns a pointer to the hash value.

MDC2\_Init(), MDC2\_Update() and MDC2\_Final() return 1 for success, 0 otherwise.

## CONFORMING TO

ISO/IEC 10118-2:2000 Hash-Function 2, with DES as the underlying block cipher.

## SEE ALSO

EVP\_DigestInit(3)

## HISTORY

All of these functions were deprecated in OpenSSL 3.0.

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