



Red Hat Enterprise Linux Release 9.2 Manual Pages on 'RIPEMD160_Init.3oss1' command

\$ man RIPEMD160_Init.3oss1

RIPEMD160_INIT(3oss1) OpenSSL RIPEMD160_INIT(3oss1)

NAME

RIPEMD160, RIPEMD160_Init, RIPEMD160_Update, RIPEMD160_Final -
RIPEMD-160 hash function

SYNOPSIS

```
#include <openssl/ripemd.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 *RIPEMD160(const unsigned char *d, unsigned long n,  
                          unsigned char *md);  
  
int RIPEMD160_Init(RIPEMD160_CTX *c);  
int RIPEMD160_Update(RIPEMD160_CTX *c, const void *data, unsigned long len);  
int RIPEMD160_Final(unsigned char *md, RIPEMD160_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).

RIPEMD-160 is a cryptographic hash function with a 160 bit output.

RIPEMD160() computes the RIPEMD-160 message digest of the n bytes at d and places it in md (which must have space for RIPEMD160_DIGEST_LENGTH == 20 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:

RIPEMD160_Init() initializes a RIPEMD160_CTX structure.

RIPEMD160_Update() can be called repeatedly with chunks of the message to be hashed (len bytes at data).

RIPEMD160_Final() places the message digest in md, which must have space for RIPEMD160_DIGEST_LENGTH == 20 bytes of output, and erases the RIPEMD160_CTX.

RETURN VALUES

RIPEMD160() returns a pointer to the hash value.

RIPEMD160_Init(), RIPEMD160_Update() and RIPEMD160_Final() return 1 for success, 0 otherwise.

NOTE

Applications should use the higher level functions EVP_DigestInit(3) etc. instead of calling these functions directly.

CONFORMING TO

ISO/IEC 10118-3:2016 Dedicated Hash-Function 1 (RIPEMD-160).

SEE ALSO

EVP_DigestInit(3)

HISTORY

All of these functions were deprecated in OpenSSL 3.0.

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3.0.7 2023-07-13 RIPEMD160_INIT(3ossl)