



Rocky Enterprise Linux 9.2 Manual Pages on command 'RIPEMD160_Init.3oss1'

\$ 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.

COPYRIGHT

Copyright 2000-2021 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 RIPEMD160_INIT(3ossl)