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Rocky Enterprise Linux 9.2 Manual Pages on command 'RIPEMD160.3ossl'

\$ man RIPEMD160.3ossl

RIPEMD160_INIT(3ossl) OpenSSL RIPEMD160_INIT(3ossl)

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)