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### ***Rocky Enterprise Linux 9.2 Manual Pages on command 'Crypt::Digest::MD4.3pm'***

***\$ man Crypt::Digest::MD4.3pm***

Crypt::Digest::MD4(3pm)      User Contributed Perl Documentation      Crypt::Digest::MD4(3pm)

#### NAME

Crypt::Digest::MD4 - Hash function MD4 [size: 128 bits]

#### SYNOPSIS

### Functional interface:

```
use Crypt::Digest::MD4 qw( md4 md4_hex md4_b64 md4_b64u
                           md4_file md4_file_hex md4_file_b64 md4_file_b64u );
```

# calculate digest from string/buffer

```
$md4_raw = md4('data string');
```

```
$md4_hex = md4_hex('data string');
```

```
$md4_b64 = md4_b64('data string');
```

```
$md4_b64u = md4_b64u('data string');
```

# calculate digest from file

```
$md4_raw = md4_file('filename.dat');
```

```
$md4_hex = md4_file_hex('filename.dat');
```

```
$md4_b64 = md4_file_b64('filename.dat');
```

```
$md4_b64u = md4_file_b64u('filename.dat');
```

# calculate digest from filehandle

```
$md4_raw = md4_file(*FILEHANDLE);
```

```
$md4_hex = md4_file_hex(*FILEHANDLE);
```

```

$md4_b64 = md4_file_b64(*FILEHANDLE);
$md4_b64u = md4_file_b64u(*FILEHANDLE);

### OO interface:
use Crypt::Digest::MD4;

$d = Crypt::Digest::MD4->new;
$d->add('any data');
$d->addfile('filename.dat');
$d->addfile(*FILEHANDLE);
$result_raw = $d->digest; # raw bytes
$result_hex = $d->hexdigest; # hexadecimal form
$result_b64 = $d->b64digest; # Base64 form
$result_b64u = $d->b64udigest; # Base64 URL Safe form

```

## DESCRIPTION

Provides an interface to the MD4 digest algorithm.

## EXPORT

Nothing is exported by default.

You can export selected functions:

```

use Crypt::Digest::MD4 qw(md4 md4_hex md4_b64 md4_b64u
                           md4_file md4_file_hex md4_file_b64 md4_file_b64u);

```

Or all of them at once:

```

use Crypt::Digest::MD4 ':all';

```

## FUNCTIONS

md4

Logically joins all arguments into a single string, and returns its MD4 digest encoded as

a binary string.

```
$md4_raw = md4('data string');
```

```
#or
```

```
$md4_raw = md4('any data', 'more data', 'even more data');
```

#### md4\_hex

Logically joins all arguments into a single string, and returns its MD4 digest encoded as a hexadecimal string.

```
$md4_hex = md4_hex('data string');
```

```
#or
```

```
$md4_hex = md4_hex('any data', 'more data', 'even more data');
```

#### md4\_b64

Logically joins all arguments into a single string, and returns its MD4 digest encoded as a Base64 string, with trailing '=' padding.

```
$md4_b64 = md4_b64('data string');
```

```
#or
```

```
$md4_b64 = md4_b64('any data', 'more data', 'even more data');
```

#### md4\_b64u

Logically joins all arguments into a single string, and returns its MD4 digest encoded as a Base64 URL Safe string (see RFC 4648 section 5).

```
$md4_b64url = md4_b64u('data string');
```

```
#or
```

```
$md4_b64url = md4_b64u('any data', 'more data', 'even more data');
```

#### md4\_file

Reads file (defined by filename or filehandle) content, and returns its MD4 digest encoded as a binary string.

```
$md4_raw = md4_file('filename.dat');
```

```
#or
```

```
$md4_raw = md4_file(*FILEHANDLE);
```

#### md4\_file\_hex

Reads file (defined by filename or filehandle) content, and returns its MD4 digest encoded as a hexadecimal string.

```
$md4_hex = md4_file_hex('filename.dat');
```

```
#or
```

```
$md4_hex = md4_file_hex(*FILEHANDLE);
```

BEWARE: You have to make sure that the filehandle is in binary mode before you pass it as argument to the addfile() method.

#### md4\_file\_b64

Reads file (defined by filename or filehandle) content, and returns its MD4 digest encoded as a Base64 string, with trailing '=' padding.

```
$md4_b64 = md4_file_b64('filename.dat');
```

```
#or
```

```
$md4_b64 = md4_file_b64(*FILEHANDLE);
```

#### md4\_file\_b64u

Reads file (defined by filename or filehandle) content, and returns its MD4 digest encoded as a Base64 URL Safe string (see RFC 4648 section 5).

```
$md4_b64url = md4_file_b64u('filename.dat');
```

```
#or
```

```
$md4_b64url = md4_file_b64u(*FILEHANDLE);
```

The OO interface provides the same set of functions as Crypt::Digest.

new

```
$d = Crypt::Digest::MD4->new();
```

clone

```
$d->clone();
```

reset

```
$d->reset();
```

add

```
$d->add('any data');
```

#or

```
$d->add('any data', 'more data', 'even more data');
```

addfile

```
$d->addfile('filename.dat');
```

#or

```
$d->addfile(*FILEHANDLE);
```

add\_bits

```
$d->add_bits($bit_string); # e.g. $d->add_bits("111100001010");
```

#or

```
$d->add_bits($data, $nbits); # e.g. $d->add_bits("\xF0xA0", 16);
```

hashsize

```
$d->hashsize;
```

#or

```
Crypt::Digest::MD4->hashsize();
```

#or

```
Crypt::Digest::MD4::hashsize();
```

digest

```
$result_raw = $d->digest();
```

hexdigest

```
$result_hex = $d->hexdigest();
```

b64digest

```
$result_b64 = $d->b64digest();
```

b64udigest

```
$result_b64url = $d->b64udigest();
```

SEE ALSO

? CryptX, Crypt::Digest

? <<https://en.wikipedia.org/wiki/MD4>>

perl v5.34.0

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Crypt::Digest::MD4(3pm)