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Rocky Enterprise Linux 9.2 Manual Pages on command 'Crypt::Digest::Keccak256.3pm'

\$ man Crypt::Digest::Keccak256.3pm

Crypt::Digest::Keccak256(3pm) User Contributed Perl Documentation Crypt::Digest::Keccak256(3pm)

NAME

Crypt::Digest::Keccak256 - Hash function Keccak-256 [size: 256 bits]

SYNOPSIS

Functional interface:

```
use Crypt::Digest::Keccak256 qw( keccak256 keccak256_hex keccak256_b64 keccak256_b64u
                                keccak256_file keccak256_file_hex keccak256_file_b64 keccak256_file_b64u );
```

calculate digest from string/buffer

```
$keccak256_raw = keccak256('data string');
```

```
$keccak256_hex = keccak256_hex('data string');
```

```
$keccak256_b64 = keccak256_b64('data string');
```

```
$keccak256_b64u = keccak256_b64u('data string');
```

calculate digest from file

```
$keccak256_raw = keccak256_file('filename.dat');
```

```
$keccak256_hex = keccak256_file_hex('filename.dat');
```

```
$keccak256_b64 = keccak256_file_b64('filename.dat');
```

```
$keccak256_b64u = keccak256_file_b64u('filename.dat');
```

calculate digest from filehandle

```
$keccak256_raw = keccak256_file(*FILEHANDLE);
```

```
$keccak256_hex = keccak256_file_hex(*FILEHANDLE);
```

```
$keccak256_b64 = keccak256_file_b64(*FILEHANDLE);  
$keccak256_b64u = keccak256_file_b64u(*FILEHANDLE);
```

OO interface:

```
use Crypt::Digest::Keccak256;
```

```
$d = Crypt::Digest::Keccak256->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 Keccak256 digest algorithm.

EXPORT

Nothing is exported by default.

You can export selected functions:

```
use Crypt::Digest::Keccak256 qw(keccak256 keccak256_hex keccak256_b64 keccak256_b64u  
keccak256_file keccak256_file_hex keccak256_file_b64 keccak256_file_b64u);
```

Or all of them at once:

```
use Crypt::Digest::Keccak256 ':all';
```

FUNCTIONS

keccak256

Logically joins all arguments into a single string, and returns its Keccak256 digest

encoded as a binary string.

```
$keccak256_raw = keccak256('data string');
```

```
#or
```

```
$keccak256_raw = keccak256('any data', 'more data', 'even more data');
```

keccak256_hex

Logically joins all arguments into a single string, and returns its Keccak256 digest encoded as a hexadecimal string.

```
$keccak256_hex = keccak256_hex('data string');
```

```
#or
```

```
$keccak256_hex = keccak256_hex('any data', 'more data', 'even more data');
```

keccak256_b64

Logically joins all arguments into a single string, and returns its Keccak256 digest encoded as a Base64 string, with trailing '=' padding.

```
$keccak256_b64 = keccak256_b64('data string');
```

```
#or
```

```
$keccak256_b64 = keccak256_b64('any data', 'more data', 'even more data');
```

keccak256_b64u

Logically joins all arguments into a single string, and returns its Keccak256 digest encoded as a Base64 URL Safe string (see RFC 4648 section 5).

```
$keccak256_b64url = keccak256_b64u('data string');
```

```
#or
```

```
$keccak256_b64url = keccak256_b64u('any data', 'more data', 'even more data');
```

keccak256_file

Reads file (defined by filename or filehandle) content, and returns its Keccak256 digest encoded as a binary string.

```
$keccak256_raw = keccak256_file('filename.dat');
```

```
#or
```

```
$keccak256_raw = keccak256_file(*FILEHANDLE);
```

keccak256_file_hex

Reads file (defined by filename or filehandle) content, and returns its Keccak256 digest encoded as a hexadecimal string.

```
$keccak256_hex = keccak256_file_hex('filename.dat');
```

```
#or
```

```
$keccak256_hex = keccak256_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.

keccak256_file_b64

Reads file (defined by filename or filehandle) content, and returns its Keccak256 digest encoded as a Base64 string, with trailing '=' padding.

```
$keccak256_b64 = keccak256_file_b64('filename.dat');
```

```
#or
```

```
$keccak256_b64 = keccak256_file_b64(*FILEHANDLE);
```

keccak256_file_b64u

Reads file (defined by filename or filehandle) content, and returns its Keccak256 digest encoded as a Base64 URL Safe string (see RFC 4648 section 5).

```
$keccak256_b64url = keccak256_file_b64u('filename.dat');
```

```
#or
```

```
$keccak256_b64url = keccak256_file_b64u(*FILEHANDLE);
```

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

new

```
$d = Crypt::Digest::Keccak256->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::Keccak256->hashsize();
```

#or

```
Crypt::Digest::Keccak256::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://keccak.team/index.html>>

perl v5.34.0

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Crypt::Digest::Keccak256(3pm)