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Rocky Enterprise Linux 9.2 Manual Pages on command 'Crypt::Checksum::CRC32.3pm'

\$ man Crypt::Checksum::CRC32.3pm

Crypt::Checksum::CRC32(3pm) User Contributed Perl Documentation Crypt::Checksum::CRC32(3pm)

NAME

Crypt::Checksum::CRC32 - Compute CRC32 checksum

SYNOPSIS

Functional interface:

```
use Crypt::Checksum::CRC32 ':all';
```

```
# calculate CRC32 checksum from string/buffer
```

```
$checksum_raw = crc32_data($data);
```

```
$checksum_hex = crc32_data_hex($data);
```

```
$checksum_int = crc32_data_int($data);
```

```
# calculate CRC32 checksum from file
```

```
$checksum_raw = crc32_file('filename.dat');
```

```
$checksum_hex = crc32_file_hex('filename.dat');
```

```
$checksum_int = crc32_file_int('filename.dat');
```

```
# calculate CRC32 checksum from filehandle
```

```
$checksum_raw = crc32_file(*FILEHANDLE);
```

```
$checksum_hex = crc32_file_hex(*FILEHANDLE);
```

```
$checksum_int = crc32_file_int(*FILEHANDLE);
```

OO interface:

```
use Crypt::Checksum::CRC32;
```

```
$d = Crypt::Checksum::CRC32->new;
```

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

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

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

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

```
$checksum_raw = $d->digest; # raw 4 bytes
```

```
$checksum_hex = $d->hexdigest; # hexadecimal form
```

```
$checksum_int = $d->intdigest; # 32bit unsigned integer
```

DESCRIPTION

Calculating CRC32 checksums.

Updated: v0.057

EXPORT

Nothing is exported by default.

You can export selected functions:

```
use Crypt::Checksum::CRC32 qw(crc32_data crc32_data_hex crc32_data_int crc32_file crc32_file_hex crc32_file_int);
```

Or all of them at once:

```
use Crypt::Checksum::CRC32 ':all';
```

FUNCTIONS

`crc32_data`

Returns checksum as raw octects.

```
$checksum_raw = crc32_data('data string');
```

#or

```
$checksum_raw = crc32_data('any data', 'more data', 'even more data');
```

crc32_data_hex

Returns checksum as a hexadecimal string.

```
$checksum_hex = crc32_data_hex('data string');
```

#or

```
$checksum_hex = crc32_data_hex('any data', 'more data', 'even more data');
```

crc32_data_int

Returns checksum as unsigned 32bit integer.

```
$checksum_int = crc32_data_int('data string');
```

#or

```
$checksum_int = crc32_data_int('any data', 'more data', 'even more data');
```

crc32_file

Returns checksum as raw octects.

```
$checksum_raw = crc32_file('filename.dat');
```

#or

```
$checksum_raw = crc32_file(*FILEHANDLE);
```

crc32_file_hex

Returns checksum as a hexadecimal string.

```
$checksum_hex = crc32_file_hex('filename.dat');
```

#or

```
$checksum_hex = crc32_file_hex(*FILEHANDLE);
```

crc32_file_int

Returns checksum as unsigned 32bit integer.

```
$checksum_int = crc32_file_int('filename.dat');
```

#or

```
$checksum_int = crc32_file_int(*FILEHANDLE);
```

METHODS

new

Constructor, returns a reference to the checksum object.

```
$d = Crypt::Checksum::CRC32->new;
```

clone

Creates a copy of the checksum object state and returns a reference to the copy.

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

reset

Reinitialize the checksum object state and returns a reference to the checksum object.

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

add

All arguments are appended to the message we calculate checksum for. The return value is the checksum object itself.

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

#or

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

addfile

The content of the file (or filehandle) is appended to the message we calculate checksum for. The return value is the checksum object itself.

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

#or

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

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

digest

Returns the binary checksum (raw bytes).

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

hexdigest

Returns the checksum encoded as a hexadecimal string.

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

intdigest

Returns the checksum encoded as unsigned 32bit integer.

```
$result_int = $d->intdigest();
```

SEE ALSO

? CryptX

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