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Rocky Enterprise Linux 9.2 Manual Pages on command 'Crypt::Cipher::Serpent.3pm'

\$ man Crypt::Cipher::Serpent.3pm

Crypt::Cipher::Serpent(3pm) User Contributed Perl Documentation Crypt::Cipher::Serpent(3pm)

NAME

Crypt::Cipher::Serpent - Symmetric cipher Serpent, key size: 128/192/256 bits

SYNOPSIS

```
### example 1
```

```
use Crypt::Mode::CBC;
```

```
my $key = '...'; # length has to be valid key size for this cipher
```

```
my $iv = '...'; # 16 bytes
```

```
my $cbc = Crypt::Mode::CBC->new('Serpent');
```

```
my $ciphertext = $cbc->encrypt("secret data", $key, $iv);
```

```
### example 2 (slower)
```

```
use Crypt::CBC;
```

```
use Crypt::Cipher::Serpent;
```

```
my $key = '...'; # length has to be valid key size for this cipher
```

```
my $iv = '...'; # 16 bytes
```

```
my $cbc = Crypt::CBC->new( -cipher=>'Cipher::Serpent', -key=>$key, -iv=>$iv );
```

```
my $ciphertext = $cbc->encrypt("secret data");
```

DESCRIPTION

This module implements the Serpent cipher. Provided interface is compliant with Crypt::CBC module.

BEWARE: This module implements just elementary "one-block-(en|de)cryption" operation - if you want to encrypt/decrypt generic data you have to use some of the cipher block modes - check for example Crypt::Mode::CBC, Crypt::Mode::CTR or Crypt::CBC (which will be slower).

METHODS

new

```
$c = Crypt::Cipher::Serpent->new($key);  
#or  
$c = Crypt::Cipher::Serpent->new($key, $rounds);
```

encrypt

```
$ciphertext = $c->encrypt($plaintext);
```

decrypt

```
$plaintext = $c->decrypt($ciphertext);
```

keysize

```
$c->keysize;  
#or  
Crypt::Cipher::Serpent->keysize;  
#or  
Crypt::Cipher::Serpent::keysize;
```

blocksize

```
$c->blocksize;  
#or  
Crypt::Cipher::Serpent->blocksize;  
#or  
Crypt::Cipher::Serpent::blocksize;
```

max_keysize

```
$c->max_keysize;
```

```
#or
```

```
Crypt::Cipher::Serpent->max_keysize;
```

```
#or
```

```
Crypt::Cipher::Serpent::max_keysize;
```

min_keysize

```
$c->min_keysize;
```

```
#or
```

```
Crypt::Cipher::Serpent->min_keysize;
```

```
#or
```

```
Crypt::Cipher::Serpent::min_keysize;
```

default_rounds

```
$c->default_rounds;
```

```
#or
```

```
Crypt::Cipher::Serpent->default_rounds;
```

```
#or
```

```
Crypt::Cipher::Serpent::default_rounds;
```

SEE ALSO

? CryptX, Crypt::Cipher

? <[https://en.wikipedia.org/wiki/Serpent_\(cipher\)](https://en.wikipedia.org/wiki/Serpent_(cipher))>

perl v5.34.0

2022-02-06

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