



Package sha512 implements the SHA-384, SHA-512, SHA-512/224, and SHA-512/256 hash algorithms as defined in FIPS 180-4.

All the hash. Hash implementations returned by this package also implement encoding. Binary Marshaler and encoding. Binary Unmarshaler to marshal and unmarshal the internal state of the hash.

Index

```
Constants
```

Overview

func New() hash.Hash

func New384() hash.Hash

func New512_224() hash.Hash

func New512_256() hash.Hash

func Sum384(data []byte) [Size384]byte

func Sum512(data []byte) [Size]byte

func Sum512_224(data []byte) [Size224]byte

func Sum512_256(data []byte) [Size256]byte

Constants

```
const (
   // Size is the size, in bytes, of a SHA-512 checksum.
   Size = 64
```

```
// Size224 is the size, in bytes, of a SHA-512/224 checksum.
Size224 = 28

// Size256 is the size, in bytes, of a SHA-512/256 checksum.
Size256 = 32

// Size384 is the size, in bytes, of a SHA-384 checksum.
Size384 = 48

// BlockSize is the block size, in bytes, of the SHA-512/224,
// SHA-512/256, SHA-384 and SHA-512 hash functions.
BlockSize = 128
)
```

Variables

This section is empty.

Functions

func New

```
func New() hash.Hash
```

New returns a new hash. Hash computing the SHA-512 checksum.

func New384

```
func New384() hash.Hash
```

New384 returns a new hash. Hash computing the SHA-384 checksum.

func New512 224 added in go1.5

```
func New512_224() hash.Hash
```

New512_224 returns a new hash. Hash computing the SHA-512/224 checksum.

func New512_256 added in go1.5

```
func New512_256() hash.Hash
```

New512_256 returns a new hash. Hash computing the SHA-512/256 checksum.

func Sum384 added in go1.2

```
func Sum384(data []byte) [Size384]byte
```

Sum384 returns the SHA384 checksum of the data.

func Sum512 added in go1.2

func Sum512(data []byte) [Size]byte

Sum512 returns the SHA512 checksum of the data.

func Sum512_224 added in go1.5

func Sum512_224(data []byte) [Size224]byte

Sum512 224 returns the Sum512/224 checksum of the data.

func Sum512_256 added in go1.5

func Sum512_256(data []byte) [Size256]byte

Sum512_256 returns the Sum512/256 checksum of the data.

Types

This section is empty.

Source Files

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Code of Conduct

sha512.go sha512block.go sha512block_amd64.go

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