



Ocumentation

Overview

Package crc64 implements the 64-bit cyclic redundancy check, or CRC-64, checksum. See https://en.wikipedia.org/wiki/Cyclic_redundancy_check for information.

Index

```
Constants
```

```
func Checksum(data []byte, tab *Table) uint64
func New(tab *Table) hash.Hash64
func Update(crc uint64, tab *Table, p []byte) uint64
type Table
func MakeTable(poly uint64) *Table
```

Constants

```
const (
   // The ISO polynomial, defined in ISO 3309 and used in HDLC.
   ISO = 0xD8000000000000

   // The ECMA polynomial, defined in ECMA 182.
   ECMA = 0xC96C5795D7870F42
)
```

```
const Size = 8
```

The size of a CRC-64 checksum in bytes.

Variables

This section is empty.

Functions

func Checksum

```
func Checksum(data []byte, tab *Table) uint64
```

Checksum returns the CRC-64 checksum of data using the polynomial represented by the Table.

func New

```
func New(tab *Table) hash.Hash64
```

New creates a new hash. Hash64 computing the CRC-64 checksum using the polynomial represented by the Table. Its Sum method will lay the value out in big-endian byte order. The returned Hash64 also implements encoding. Binary Marshaler and encoding. Binary Unmarshaler to marshal and unmarshal the internal state of the hash.

func Update

```
func Update(crc uint64, tab *Table, p []byte) uint64
```

Update returns the result of adding the bytes in p to the crc.

Types

type Table

```
type Table [256]uint64
```

Table is a 256-word table representing the polynomial for efficient processing.

func MakeTable

```
func MakeTable(poly uint64) *Table
```

MakeTable returns a Table constructed from the specified polynomial. The contents of this Table must not be modified.

Google

Source Files

crc64.go

Why Go	Get Started	Packages	About
Use Cases	Playground	Standard Library	Download
Case Studies	Tour	About Go Packages	Blog
	Stack Overflow		Issue Tracker
	Help		Release Notes
			Brand Guidelines
			Code of Conduct
Connect			
Twitter			
GitHub			
Slack			
r/golang			
Meetup			
Golang Weekly			
Copyright			

Terms of Service

Privacy Policy

Report an Issue

•