

Package: fletcher (via r-universe)

July 15, 2026

Type Package

Title Compute Fletcher Checksums (16, 32, and 64 Bit)

Version 0.1.0

Description Computes Fletcher's position-dependent checksum in 16-, 32-, and 64-bit widths. Fletcher's checksum, devised by John G. Fletcher, provides error-detection properties approaching a cyclic redundancy check at lower computational cost. Input is processed as little-endian words with the final partial word zero-padded, so results are reproducible across platforms.

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Encoding UTF-8

URL <https://github.com/chrislongros/fletcher>

BugReports <https://github.com/chrislongros/fletcher/issues>

Suggests tinytest

NeedsCompilation yes

RoxygenNote 7.3.2

Repository <https://chrislongros.r-universe.dev>

Date/Publication 2026-07-06 21:25:47 UTC

RemoteUrl <https://github.com/chrislongros/fletcher>

RemoteRef HEAD

RemoteSha 2339f7e281c89bc93fb292b7d2dcf93c9757aea8

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Description

Computes Fletcher's position-dependent checksum. Input is processed as little-endian words with the final partial word zero-padded, so the result is reproducible across platforms.

Usage

```
fletcher(x, width = 32L)
```

Arguments

x	A character string, a raw vector, or an integer/numeric vector of byte values (0-255) coercible with <code>as.raw</code> . Character input is converted with <code>charToRaw</code> .
width	Checksum width in bits; one of 16, 32, or 64.

Value

A lowercase hexadecimal string of width / 4 characters.

Examples

```
fletcher("abcde", 16) # "c8f0"  
fletcher("abcde", 32) # "f04fc729"  
fletcher("abcde", 64) # "c8c6c527646362c6"
```

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