

Package: lz4lite (via r-universe)

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Type Package

Title Extremely Fast Compression and Serialization with LZ4

Version 1.0.0

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Description 'LZ4' is an extremely fast compression standard with compression speeds of hundreds of megabytes per second, and decompression speeds of over a gigabyte per second. Use this package to compress data and serialize arbitrary objects to files or raw vectors.

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Encoding UTF-8

LazyData true

RoxygenNote 7.3.2

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Suggests knitr, rmarkdown, testthat

VignetteBuilder knitr

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

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RemoteUrl <https://github.com/coolbutuseless/lz4lite>

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lz4_compress	<i>Compress a raw vector</i>
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Description

Compress a raw vector

Usage

```
lz4_compress(src)
```

Arguments

src raw vector to be compressed.

Value

raw vector of compressed data

Examples

```
src <- as.raw(rep(1L, 10000))
length(src)
enc <- lz4_compress(src)
length(enc)
result <- lz4_decompress(enc)
length(result)
```

lz4_decompress	<i>Decompress a raw vector of compressed data</i>
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Description

Decompress a raw vector of compressed data

Usage

```
lz4_decompress(src)
```

Arguments

src raw vector of compressed data created with [lz4_compress\(\)](#)

Value

uncompressed vector

Examples

```
src <- as.raw(rep(1L, 10000))
length(src)
enc <- lz4_compress(src)
length(enc)
result <- lz4_decompress(enc)
length(result)
```

lz4_serialize	<i>Serialize an R object to a file or raw vector</i>
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Description

Serialize an R object to a file or raw vector

Usage

```
lz4_serialize(x, dst = NULL, acc = 1L, dict = NULL)

lz4_unserialize(src, dict = NULL)
```

Arguments

x	An R object
dst	When std is a character, it will be treated as a filename. When NULL it indicates that the object should be serialized to a raw vector
acc	LZ4 acceleration factor (for compression). Default 1. Valid range [1, 65535]. Higher values mean faster compression, but larger compressed size.
dict	Dictionary to aid in compression. raw vector. NULL for no dictionary. create <code>zstd --train dirSamples/* -o dictName --maxdict=64KB</code>
src	data source for unserialization. May be a file name, or raw vector

Value

If dst is a file, then no value is returned. Otherwise returns a raw vector.

Examples

```
raw_vec <- lz4_serialize(mtcars)
head(raw_vec)
lz4_unserialize(raw_vec)
```

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