

z827(1) - Linux man page

Name

z827 - compress or expand files

Synopsis

z827 [*name ...*]

Description

Z827 reduces the size of the named files using bit-packing compression. Each file is replaced by one with the extension **.z827**, while keeping the same ownership modes. Z827 accepts no more than one file at a time and offers no flags.

To compress, files must be of the ASCII text format. Files that contain emojis, characters from foreign languages, and other non-ASCII characters will not be accepted.

Z827 compresses text by packing the most significant bit of an 8-bit binary character into a 7 byte character array. When fully compressed, 8 bytes will be squeezed into 7 character pointers via left shifting one bit per byte. This works because typical ASCII has an 'OFF' most significant bit and thus can be "peeled off" without losing any information.

Z827 can currently decompress files that provide the extension .z827, which will return the file expanded, e.g., every 7-bit byte shifted right one time.

See Also

[gzip](#)(1), [znew](#)(1), [zcmp](#)(1), [zmore](#)(1), [zforce](#)(1), [gzexe](#)(1), [zip](#)(1), [unzip](#)(1), [compress](#)(1), [pack](#)(1), [compact](#)(1)

The z827 file format is specified in Houser, Z827 file format specification version 4.3, <[**houser@cs.usm.maine.edu**](mailto:houser@cs.usm.maine.edu)>, Internet (February 2025).

Diagnostics

Exit status is normally 0; if an error occurs, exit status is 1.

Usage: z827 filename

Invalid options were specified on the command line.

Error: incompatible encoding

Characters are not of type ASCII

Error reading file size

The file specified to z827 has not been compressed properly.

Error creating output file

The file specified to z872 is unable to output a file.

Error opening input file

The file specified to z872 is unable to open a file

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