new/usr/src/man/man1/compress.1 11579 Wed Feb 5 01:53:17 2020 new/usr/src/man/man1/compress.1 12284 errors in compress(1) and pack(1) man pages 1 .\" 2 . \" Sun Microsystems, Inc. gratefully acknowledges The Open Group for 3 .\" permission to reproduce portions of its copyrighted documentation. 4 .\" Original documentation from The Open Group can be obtained online at 5 .\" http://www.opengroup.org/bookstore/. 6.\" 7 . \" The Institute of Electrical and Electronics Engineers and The Open 8 .\" Group, have given us permission to reprint portions of their 9 .\" documentation. 10 .\" 11 .\" In the following statement, the phrase ``this text'' refers to portions 12 .\" of the system documentation. 13 .\" 14 .\" Portions of this text are reprinted and reproduced in electronic form 15 ... in the SunOS Reference Manual, from IEEE Std 1003.1, 2004 Edition, 16 .\" Standard for Information Technology -- Portable Operating System 17 .\" Interface (POSIX), The Open Group Base Specifications Issue 6, 18 . (" Copyright (C) 2001-2004 by the Institute of Electrical and Electronics 19 .\" Engineers, Inc and The Open Group. In the event of any discrepancy 20 . \" between these versions and the original IEEE and The Open Group 21 .\" Standard, the original IEEE and The Open Group Standard is the referee 22 .\" document. The original Standard can be obtained online at 23 ./ " http://www.opengroup.org/unix/online.html. 24 .\" 25 . " This notice shall appear on any product containing this material. 26 .\" 27 . \" The contents of this file are subject to the terms of the 28 . \" Common Development and Distribution License (the "License"). 29 . \" You may not use this file except in compliance with the License. 30 .\" 31 . You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE 32 .\" or http://www.opensolaris.org/os/licensing. 33 . \" See the License for the specific language governing permissions 34 .\" and limitations under the License. 35 .\" 36 . \" When distributing Covered Code, include this CDDL HEADER in each 37 . \" file and include the License file at usr/src/OPENSOLARIS.LICENSE. 38 .\" If applicable, add the following below this CDDL HEADER, with the 39 .\" fields enclosed by brackets "[]" replaced with your own identifying 40 .\" information: Portions Copyright [yyyy] [name of copyright owner] 41 .\" 42 .\" 43 .\" Copyright 1989 AT&T 44 .\" Portions Copyright (c) 1992, X/Open Company Limited All Rights Reserved 45 . \" Copyright (c) 2008 Sun Microsystems, Inc. All Rights Reserved 46 .\" 47 .TH COMPRESS 1 "Feb 5, 2020" 47 .TH COMPRESS 1 "Mar 13, 2008" 48 .SH NAME 49 compress, uncompress, zcat \- compress, uncompress files or display expanded 50 files 51 .SH SYNOPSIS 52 .LP 52 .nf 53 \fBcompress\fR [\fB-fv/\fR] [\fB-b\fR \fIbits\fR] [\fIfile\fR]... 54 .fi 56 .LP 57 .nf

58 \fBcompress\fR \fB-c\fR [\fB-fv\fR] [\fB-b\fR \fIbits\fR] [\fIfile\fR]

59 .fi

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1

61 .LP 62 .nf 63 \fBuncompress\fR [\fB-fv\fR] [\fB-c | -/\fR] [\fIfile\fR]... 64 .fi 66 .LP 67 .nf 68 \fBzcat\fR [\fIfile\fR]... 69 .fi 71 .SH DESCRIPTION 72 .SS "compress" 74 .sp 75 .LP 73 The \fBcompress\fR utility attempts to reduce the size of the named files by 74 using adaptive Lempel-Ziv coding. Except when the output is to the standard 75 output, each file is replaced by one with the extension \fB\&.Z\fR, while 76 keeping the same ownership modes, change times and modification times, ACLs, 77 and extended attributes. The compress utility also attempts to set the owner and 78 group of \fIfile\fR\fB\&.Z\fR to the owner and group of file, but does not fail 80 and extended attributes. The compress utility also attempt to set the owner and 81 group of \fIfile\fR\fB\&.z\fR to the owner and group of file, but does not fail 79 if this cannot be done. If appending the $B\&.Z\$ to the file pathname would 80 make the pathname exceed fBl023 fr bytes, the command fails. If no files are 81 specified, the standard input is compressed to the standard output. 82 .sp 83 .LP 84 The amount of compression obtained depends on the size of the input, the number 85 of \flbits\fR per code, and the distribution of common substrings. Typically, 86 text such as source code or English is reduced by 50\(mi60%. Compression is 87 generally much better than that achieved by Huffman coding (as used in 88 \fBpack\fR(1)) and it takes less time to compute. The \fIbits\fR parameter 89 specified during compression is encoded within the compressed file, along with 90 a magic number to ensure that neither decompression of random data nor 91 recompression of compressed data is subsequently allowed. 92 .SS "uncompress" 96 .sp 97 .LP 93 The \fBuncompress\fR utility restores files to their original state after they 94 have been compressed using the \fBcompress\fR utility. If no files are 95 specified, the standard input is uncompressed to the standard output. 96 .sp 97 .LP 98 This utility supports the uncompressing of any files produced by 99 \fBcompress\fR. For files produced by \fBcompress\fR on other systems, 100 fBuncompress fR supports 9- to 16-bit compression (see fB-bfR). 101 .SS "zcat" 107 .sp 108 .LP 102 The \fBzcat\fR utility writes to standard output the uncompressed form of files 103 that have been compressed using \fBcompress\fR. It is the equivalent of 104 \fBuncompress\fR \fB-c\fR. Input files are not affected. 111 fBuncompress fR fB-c fR. Input files are not affected. 105 .SH OPTIONS 113 .sp 114 .LP 106 The following options are supported: 107 .sp 108 ne 2 109 .na 110 \fB\fB-b\fR \fIbits\fR\fR 111 .ad 112 .RS 11n

113 Sets the upper limit (in bits) for common substring codes. \flbits\fR must be 114 between 9 and 16 (16 is the default). Lowering the number of bits result in

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115 larger, less compressed files. 116 .RE 118 .sp 119 .ne 2 120 .na 121 \fB\fB-c\fR\fR 122 .ad 123 .RS 11n 124 Writes to the standard output; no files are changed and no $B\&.Z\$ 125 created. The behavior of \fBzcat\fR is identical to that of `\fBuncompress\fR $126 \setminus fB-c \setminus fR'$. 127 .RE 129 .sp 130 .ne 2 131 .na 132 \fB\fB-f\fR\fR 133 .ad 134 .RS 11n 135 When compressing, forces compression of $flie\R$, even if it does not 136 actually reduce the size of the file, or if the corresponding 137 \fIfile\fR\fB\&.Z\fR file already exists. 138 .sp 139 If the \fB-f\fR option is not specified, and the process is not running in the 140 background, prompts to verify whether an existing file should be overwritten. 141 If the response is affirmative, the existing file is overwritten. When 142 uncompressing, does not prompt for overwriting files. If the ff-fr option is 143 not specified, and the process is not running in the background, prompts to 144 verify whether an existing file should be overwritten. If the standard input is 145 not a terminal and \fB-f\fR is not specified, writes a diagnostic message to 146 standard error and exits with a status greater than fB0/fR. 147 .RE 149 .sp 150 .ne 2 151 .na 152 \fB\fB-v\fR\fR 153 .ad 154 .RS 11n 155 Verbose. Writes to standard error messages concerning the percentage reduction 156 or expansion of each file. 157 .RE 159 .sp 160 .ne 2 161 .na 162 \fB\fB-/\fR\fR 163 .ad 164 .RS 11n 165 When compressing or decompressing, copies any extended system attributes 166 associated with the source file to the target file and copies any extended 167 system attributes associated with extended attributes of the source file to the 168 corresponding extended attributes associated with the target file. If any 169 extended system attributes cannot be copied, the original file is retained, a 170 diagnostic is written to \fBstderr\fR, and the final exit status is 171 \fBnon-zero\fR. 172 .RE 174 .SH OPERANDS 184 .sp 185 .LP 175 The following operand is supported: 176 .sp 177 .ne 2 178 .na

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179 $fB\fIfile\fR\fR$

180 .ad 181 .RS 8n

3

182 A path name of a file to be compressed by \fBcompress\fR, uncompressed by

183 \fBuncompress\fR, or whose uncompressed form is written to standard out by

184 \fBzcat\fR. If \fIfile\fR is \fB\(mi\fR, or if no \fIfile\fR is specified, the 185 standard input is used.

4

| T 0 2 | Stand |
|-------|-------|
| 186 | .RE |

188 .SH USAGE

200 .sp

201 .LP

189 See fBlargefile fr(5) for the description of the behavior of fBcompress, fr, 190 \fBuncompress\fR, and \fBzcat\fR when encountering files greater than or equal 191 to 2 Gbyte (2^31 bytes).

204 to 2 Gbyte (2^31 bytes).

192 .SH ENVIRONMENT VARIABLES 206 .sp

207 .LP

193 See \fBenviron\fR(5) for descriptions of the following environment variables 194 that affect the execution of fBcompress fR, fBuncompress fR, and fBzcat fR: 195 \fBLANG\fr, \fBLC_ALL\fr, \fBLC_COLLATE\fr, \fBLC_CTYPE\fr, \fBLC_MESSAGES\fr, 196 and \fBNLSPATH\fR. 197 .sp

198 .LP

199 Affirmative responses are processed using the extended regular expression 200 defined for the \fByesexpr\fR keyword in the \fBLC MESSAGES\fR category of the 201 user's locale. The locale specified in the \fBLC_COLLATE\fR category defines 202 the behavior of ranges, equivalence classes, and multi-character collating 203 elements used in the expression defined for \fByesexpr\fR. The locale specified 204 in \fBLC_CTYPE\fR determines the locale for interpretation of sequences of 205 bytes of text data a characters, the behavior of character classes used in the 206 expression defined for the $fByesexpr{R}$. See $fBlocale{R(5)}$. 207 .SH EXIT STATUS

223 .sp

- 224 .LP
- 208 The following error values are returned: 209 .sp
- 210 .ne 2
- 211 .na
- 212 \fB\fB0\fR\fR
- 213 .ad
- 214 .RS 6n
- 215 Successful completion. 216 .RE

- 218 .sp 219 .ne 2
- 220 .na
- 221 \fB\fB1\fR\fR
- 222 .ad
- 223 .RS 6n
- 224 An error occurred. 225 .RE
- 227 .sp
- 228 .ne 2
- 229 .na
- 230 \fB\fB2\fR\fR
- 231 .ad
- 232 .RS 6n
- 233 One or more files were not compressed because they would have increased in size 234 (and the fB-ffR option was not specified).
- 235 .RE
- 237 .sp

| new/usr/src/man/man1/compress.1 5 | new/usr/src/man/manl/compress.1 6 |
|---|--|
| 238 .ne 2 239 .na 240 \fB\fB>2\fR\fR 241 .ad 242 .RS 6n | 297 .sp .6 298 .RS 4n 299 Maxbits must follow \fB-b\fR, or invalid maxbits, not a numeric value. 300 .RE |
| <pre>243 An error occurred. 244 .RE 246 .SH ATTRIBUTES 264 .sp 265 .LP 247 See \fBattributes\fR(5) for descriptions of the following attributes: 248 .sp</pre> | <pre>302 .sp 303 .ne 2 304 .na 305 \fB\fIfile\fR: not in compressed format\fR 306 .ad 307 .sp .6 308 .RS 4n 309 The file specified to \fBuncompress\fR has not been compressed. 310 .RE</pre> |
| <pre>250 .sp 251 .TS 252 box; 253 c c 254 l 1 . 255 ATTRIBUTE TYPE ATTRIBUTE VALUE 256 _ 257 CSI Enabled 258 _ 259 Interface Stability Committed 260 _ 261 Standard See \fBstandards\fR(5). 262 .TE</pre> | <pre>312 .sp 313 .ne 2 314 .na 315 \fB\fIfile\fR: compressed with \fIxx\fRbits, can only handle \fIyy\fRbits\fR 316 .ad 317 .sp .6 318 .RS 4n 319 \fBfile\fR was compressed by a program that could deal with more \fIbits\fR 320 than the compress code on this machine. Recompress the file with smaller 321 \fIbits\fR. 322 .RE</pre> |
| <pre>264 .SH SEE ALSO 284 .sp 285 .LP 265 \fBln\fR(1), \fBfgetattr\fR(3C), \fBfsetattr\fR(3C), 266 \fBattributes\fR(5), \fBenviron\fR(5), \fBlargefile\fR(5), \fBlocale\fR(5), 267 \fBstandards\fR(5) 268 .SH DIAGNOSTICS 290 .sp</pre> | <pre>324 .sp 325 .ne 2 326 .na 327 \fB\fIfile\fR: already has .\ Z suffix no change\fR 328 .ad 329 .sp .6 330 .RS 4n 331 The file is assumed to be already compressed. Rename the file and try again. 332 .RE</pre> |
| <pre>269 .ne 2 270 .na 271 \fBUsage: \fBcompress [-fv/] [-b\fR \fImaxbits\fR\fB]\fR [\fIfile\fR\ .\ .\].]\ 293 \fBUsage: \fBcompress [-fv/] [-b\fR \fIbits\fR] [\fIfile\fR\\.\].\].]\ 293 \fBUsage: \fBcompress [-fv/] [-b\fR \fImaxbits\fR\fB]\fR [\fIfile\fR\\.\].\].]\ 274 .na 275 \fB\fBcompress c [-fv] [-b\fR \fImaxbits\fR\fB]\fR [\fIfile\fR]\fR 276 .ad 276 .ad 276 .ad 277 .a </pre> | <pre>334 .sp 335 .ne 2 336 .na 337 \fB\fIfile\fR already exists; do you wish to overwrite (yes or no)?\fR 359 \fB\fIfile\fR: already exists; do you wish to overwrite (y or n)?\fR 338 .ad 339 .sp .6 340 .RS 4n 341 Respond \fBy\fR if you want the output file to be replaced; \fBn\fR if not.</pre> |
| <pre>277 .sp .6 278 .RS 4n 279 Invalid options were specified on the command line. 280 .RE 282 .sp 283 .ne 2 284 .na 285 \fBUsage: \fBuncompress [-fv] [-c -/] [\fR\fIfile\fR\fB]\fR\fR 286 .ad 287 .sp .6 288 .RS 4n 289 Invalid options were specified on the command line.</pre> | <pre>342 .RE 344 .sp 345 .ne 2 346 .na 347 \fBuncompress: corrupt input\fR 348 .ad 349 .sp .6 350 .RS 4n 351 A \fBSIGSEGV\fR violation was detected, which usually means that the input file 352 is corrupted. 353 .RE</pre> |
| 290 .RE 292 .sp 293 .ne 2 294 .na 295 \fBMissing maxbits\fR 296 .ad | 355 .sp 356 .ne 2 357 .na 358 \fBCompression:\fIxx.xx\fR\fB%\fR 359 .ad 360 .sp .6 361 .RS 4n |

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362 Percentage of the input saved by compression. (Relevant only for fB-v/fR.) 363 .RE 365 .sp 366 .ne 2 367 .na 368 \fB- - not a regular file: unchanged \fR 369 .ad 370 .sp .6 371 .RS 4n 372 When the input file is not a regular file, (such as a directory), it is left 373 unaltered. 374 .RE 376 .sp 377 .ne 2 378 .na 379 \fB- - has \fIxx\fR other links: unchanged\fR 380 .ad 381 .sp .6 382 .RS 4n 383 The input file has links; it is left unchanged. See \fBln\fR(1) for more 384 information. 385 .RE 387 .sp 388 .ne 2 389 .na 390 \fB- - file unchanged\fR 391 .ad 392 .sp .6 393 .RS 4n 394 No savings are achieved by compression. The input remains uncompressed. 395 .RE 397 .sp 398 .ne 2 399 .na 400 $\filescript{B-}$ -filename too long to tack on .ZfR401 .ad 402 .sp .6 403 .RS 4n 404 The path name is too long to append the $fB\&.Z\fR$ suffix. 405 .RE 407 .sp 408 .ne 2 409 .na 410 \fB- -cannot preserve extended attributes. file unchanged\fR 411 .ad 412 .sp .6 413 .RS 4n 414 Extended system attributes could not be copied. 415 .RE 417 .SH NOTES 440 .sp 441 .LP 418 Although compressed files are compatible between machines with large memory, 419 \fB-b\fR 12 should be used for file transfer to architectures with a small 420 process data space (64KB or less). 421 .sp 422 .LP 423 \fBcompress\fR should be more flexible about the existence of the fB&.|Z|fR424 suffix.

new/usr/src/man/man1/pack.1

8684 Wed Feb 5 01:53:18 2020 new/usr/src/man/man1/pack.1 12284 errors in compress(1) and pack(1) man pages 1 .\" 2 . \" Sun Microsystems, Inc. gratefully acknowledges The Open Group for 3 .\" permission to reproduce portions of its copyrighted documentation. 4 .\" Original documentation from The Open Group can be obtained online at 5 .\" http://www.opengroup.org/bookstore/. 6.\" 7 . \" The Institute of Electrical and Electronics Engineers and The Open 8 .\" Group, have given us permission to reprint portions of their 9 .\" documentation. 10 .\" 11 .\" In the following statement, the phrase ``this text'' refers to portions 12 .\" of the system documentation. 13 .\" 14 .\" Portions of this text are reprinted and reproduced in electronic form 15 ... in the SunOS Reference Manual, from IEEE Std 1003.1, 2004 Edition, 16 .\" Standard for Information Technology -- Portable Operating System 17 .\" Interface (POSIX), The Open Group Base Specifications Issue 6, 18 . (" Copyright (C) 2001-2004 by the Institute of Electrical and Electronics 19 .\" Engineers, Inc and The Open Group. In the event of any discrepancy 20 . \" between these versions and the original IEEE and The Open Group 21 .\" Standard, the original IEEE and The Open Group Standard is the referee 22 .\" document. The original Standard can be obtained online at 23 ./ " http://www.opengroup.org/unix/online.html. 24 .\" 25 . " This notice shall appear on any product containing this material. 26 .\" 27 . " The contents of this file are subject to the terms of the 28 . \" Common Development and Distribution License (the "License"). 29 . \" You may not use this file except in compliance with the License. 30 .\" 31 . You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE 32 .\" or http://www.opensolaris.org/os/licensing. 33 . \" See the License for the specific language governing permissions 34 .\" and limitations under the License. 35 .\" 36 . \" When distributing Covered Code, include this CDDL HEADER in each 37 . \" file and include the License file at usr/src/OPENSOLARIS.LICENSE. 38 .\" If applicable, add the following below this CDDL HEADER, with the 39 .\" fields enclosed by brackets "[]" replaced with your own identifying 40 .\" information: Portions Copyright [yyyy] [name of copyright owner] 41 .\" 42 .\" 43 .\" Copyright 1989 AT&T 44 .\" Portions Copyright (c) 1992, X/Open Company Limited All Rights Reserved 45 . \" Copyright (c) 1996, Sun Microsystems, Inc. All Rights Reserved 46 .\" 47 .TH PACK 1 "Feb 5, 2020" 47 .TH PACK 1 "Mar 13, 2008" 48 .SH NAME 49 pack, pcat, unpack \- compress and expand files 50 .SH SYNOPSIS 51 .LP 51 .nf 52 \fBpack\fR [\fB-f/\fR] [\fB-\fR] \fIfile\fR... 53 .fi 55 .LP 56 .nf 57 \fBpcat\fR \fIfile\fR... 58 .fi

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62 \fBunpack\fR [\fB-/\fR] \fIfile\fR...

60 T.P 61 .nf

63 .fi

1

65 .SH DESCRIPTION 66 .SS "pack" 68 .sp 69 .LP 67 The \fBpack\fR command attempts to store the specified files in a compressed 68 form. Wherever possible (and useful), each input file \fBfile\fR is replaced by 69 a packed file fBfilefR k.z fR with the same access modes, access and 70 modified dates, and owner as those of \fBfile\fR. If \fBpack\fR is successful, 71 \fBfile\fR is removed. 72 .sp 73 .LP 74 The amount of compression obtained depends on the size of the input file and 75 the character frequency distribution. Because a decoding tree forms the first 76 part of each $\beta k_z r f r$ file, it is usually not worthwhile to pack files 77 smaller than three blocks, unless the character frequency distribution is very 78 skewed, which can occur with printer plots or pictures. 79 .sp 80 .LP 81 Typically, text files are reduced to 60-75% of their original size. Load 82 modules, which use a larger character set and have a more uniform distribution 83 of characters, show little compression, the packed versions being about 90% of 84 the original size. 85 .sp 86 .LP 87 The \fBpack\fR utility returns a value that is the number of files that it 88 failed to compress. If that number exceeds \fB255\fR, \fB255\fR is returned. 89 .sp 90 .LP 91 No packing occurs if: 92 .RS +4 93 .TP 94 .ie t \(bu 95 .el o 96 the file appears to be already packed 97 .RE 98 .RS +4 99 .TP 100 .ie t \(bu 101 .el o 102 the file name is too long to add the $\B\\&.z\F$ suffix 103 .RE 104 .RS +4 105 .TP 106 .ie t \bu 107 .el o 108 the file has links 109 .RE 110 .RS +4 111 .TP 112 .ie t \(bu 113 .el o 114 the file is a directory 115 .RE 116 .RS +4 117 .TP 118 .ie t \(bu 119 .el o 120 the file cannot be opened 121 .RE 122 .RS +4

123 .TP

new/usr/src/man/man1/pack.1 3 new/usr/src/man/man1/pack.1 124 .ie t \(bu 185 LP 125 .el o 186 \fBunpack\fR returns a value that is the number of files it was unable to 126 the file is empty 187 unpack. Failure can occur for the same reasons that it can in βR , as 127 .RE 188 well as for the following: 128 .RS +4 189 .RS +4 129 .TP 190 .TP 130 .ie t \(bu 191 .ie t \(bu 131 .el o 192 .el o 132 no disk storage blocks are saved by packing 193 a file with the unpacked name already exists; 133 .RE 194 .RE 134 .RS +4 195 .RS +4 135 .TP 196 .TP 136 .ie t \(bu 197 .ie t \(bu 137 .el o 198 .el o 138 a file called \fBfile\fR\fB\&.z\fR already exists 199 the unpacked file cannot be created. 139 .RE 200 .RE 140 .RS +4 201 .SH OPTIONS 141 .TP 209 .sp 142 .ie t \(bu 210 .LP 202 The following options are supported by \fBpack\fR: 143 .el o 144 the $fB\&.z\fR$ file cannot be created 203 .sp 145 .RE 204 .ne 2 146 .RS +4 205 .na 206 \fB\fB-f\fR\fR 147 .TP 148 .ie t \(bu 207 .ad 149 .el o 208 .RS 6n 150 an I/O error occurred during processing. 209 Forces packing of \fBfile\fR. This is useful for causing an entire directory to 210 be packed even if some of the files do not benefit. Packed files can be 151 .RE 152 .sp 211 restored to their original form using \fBunpack\fR or \fBpcat\fR. 153 .LP 212 .RE 154 The last segment of the file name must be short enough to allow space for the 155 appended \fB\&.z\fR extension. Directories cannot be compressed. 214 .sp 158 appended \fB\&.z\fRextension. Directories cannot be compressed. 215 .LP 156 .SS "pcat" 216 The following options are supported by \fBpack\fR and \fBunpack\fR: 160 .sp 217 .sp 218 .ne 2 161 .LP 157 The fBpcatfR command does for packed files what fBcatfR(1) does for 219 .na 158 ordinary files, except that \fBpcat\fR cannot be used as a filter. The 220 \fB\fB-/\fR\fR 159 specified files are unpacked and written to the standard output. 221 .ad 160 .sp 222 .RS 6n 161 .LP 223 When packing or unpacking, copies any ACL and extended system attributes 224 associated with the source file to the target file. If an ACL or extended 162 \fBpcat\fR returns the number of files it was unable to unpack. Failure can 163 occur if: 225 system attributes cannot be copied, the original file is retained, a diagnostic 164 .RS +4 226 message is written to \fBstderr\fR, and the final exit status is 165 .TP 227 \fBnon-zero\fR. 166 .ie t \(bu 228 .RE 167 .el o 168 the file cannot be opened; 230 .SH OPERANDS 240 .sp 169 .RE 170 .RS +4 241 .LP 171 .TP 231 The following operands are supported: 172 .ie t \(bu 232 .sp 173 .el o 233 .ne 2 234 .na 174 the file does not appear to be the output of β . 175 .RE 235 \fB\fBfile\fR\fR 176 .SS "unpack" 236 .ad 182 .sp 237 .RS 8n 238 A path name of a file to be packed, unpacked, or pcated; \fBfile\fR can include 183 .LP 239 or omit the \fB\&.z\fR suffix. 177 The \fBunpack\fR command expands files created by \fBpack\fR. For each 178 \fBfile\fR specified in the command, a search is made for a file called 240 .RE 179 \fBfile\fR\&.z\fR (or just \fBfile\fR, if \fBfile\fR ends in \fB\&.z\fR). If 180 this file appears to be a packed file, it is replaced by its expanded version. 242 .sp 181 The new file has the fB&.zfR suffix stripped from its name, and has the same 243 .ne 2 244 .na 182 access modes, access and modification dates, and owner as those of the packed 245 \fB\fB\(mi\fR\fR 183 file. 184 .sp 246 .ad

| new/u | sr/src/man/man1/pack.1 5 |
|---------------------------------|---|
| 248 249 250 251 252 | .RS 8n \fBpack\fR uses Huffman (minimum redundancy) codes on a byte-by-byte basis. If the \fB\(mi\fR argument is used, an internal flag is set that causes the number of times each byte is used, its relative frequency, and the code for the byte to be printed on the standard output. Additional occurrences of $fB(mi\fR in place of \fBfile\fR causes the internal flag to be set and resetRE$ |
| | .SH USAGE |
| 268 | .sp .LP |
| 257 258 | See $fBlargefile fR(5)$ for the description of the behavior of $fBpack fR$, $fBpcat fR$, and $fBunpack fR$ when encountering files greater than or equal to 2 Gbyte (2^31 bytes). Gbyte (2^31 bytes). |
| 259 273 | .SH EXAMPLES |
| 260 261 | \fBExample 1 \fRViewing a Packed File .sp .LP |
| | To view a packed file named \fBfile.z\fR use: |
| | .sp .LP |
| | \fBexample%\fR \fBpcat\fR \fBfile.z\fR |
| 270 | .sp .LP or just: |
| 274 | .sp .LP \fBexample%\fR \fBpcat\fR \fBfile\fR |
| | .LP \fBExample 2 \fRMaking an Unpacked Copy: |
| 292 | \fBExample 2 \fRMaking and Unpacked Copy: |
| 280 | .sp .LP |
| 282 | To make an unpacked copy, say $fBnnn$, of a packed file named $fBfile.z$ (without destroying $fBfile.z$) use the command: |
| | .sp .LP |
| 286 | \fBexample%\fR \fBpcat\fR \fBfile\fR \fB>nnn\fR |
| | .SH ENVIRONMENT VARIABLES |
| 304 | . LP |
| 290 291 | <pre>See \fBenviron\fR(5) for descriptions of the following environment variables that affect the execution of \fBpack\fR, \fBpcat\fR, and \fBunpack\fR: \fBLC_CTYPE\fR, \fBLC_MESSAGES\fR, and \fBNLSPATH\fR. .SH EXIT STATUS</pre> |
| 309 | .sp .LP |
| 293 | The following exit values are returned: .sp |
| 295 | .ne 2 |
| 297 | .na \fB\fB0\fR\fR |
| | .ad .RS 6n |
| 300 301 | Successful completion. .RE |
| 303 | .sp |

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304 .ne 2 305 .na 306 \fB\fB>0\fR\fR 307 .ad 308 .RS 6n 309 An error occurred. The number of files the command failed to pack/unpack is 310 returned. If the number of failures exceeds fB255, then fB255 is 311 returned. 312 .RE 314 .SH ATTRIBUTES 333 .sp 334 .LP 315 See \fBattributes\fR(5) for descriptions of the following attributes: 316 .sp 318 .sp 319 .TS 320 box; 321 c | c 322 1 | 1 . 323 ATTRIBUTE TYPE ATTRIBUTE VALUE 324 325 CSI 326 .TE Enabled 328 .SH SEE ALSO 349 .sp 350 .LP

- 329 \fBcat\fR(1), \fBcompress\fR(1), \fBzcat\fR(1), \fBfgetattr\fR(3C), 330 \fBfsetattr\fR(3C), \fBattributes\fR(5), \fBenviron\fR(5), \fBlargefile\fR(5)