new/usr/src/lib/libc/inc/mse.h

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2864 Wed Jun 3 21:39:38 2015 new/usr/src/lib/libc/inc/mse.h 5956 orientate is not a word Reviewed by: Garrett D'Amore <garrett@damore.org> Reviewed by: Marcel Telka <marcel@telka.sk>

____unchanged_portion_omitted_

47 /* 48 * DESCRIPTION: 49 * This function gets the pointer to the mbstate_t structure associated 50 * with the specified iop. 51 * 52 * RETURNS: 53 * If the associated mbstate_t found, the pointer to the mbstate_t is 54 * returned. Otherwise, (mbstate_t *)NULL is returned. 55 */ 56 #ifdef _LP64 57 #define _getmbstate(iop) (&(iop)->_state) 58 #else 59 extern mbstate_t *_getmbstate(FILE *); 60 #endif 62 /* 63 * DESCRIPTION: 64 * This function/macro gets the orientation bound to the specified iop. 65 * 66 * RETURNS: 67 * WC MODE if iop has been bound to Wide orientation 68 * _BYTE_MODE if iop has been bound to Byte orientation 69 * _NO_MODE if iop has been bound to neither Wide nor Byte 70 */ 71 extern _IOP_orientation_t _getorientation(FILE *); 73 /* 74 * DESCRIPTION: 75 * This function/macro sets the orientation to the specified iop. 76 * 77 * INPUT: * flag may take one of the following: 78 * _WC_MODE 79 Wide orientation 80 * BYTE_MODE Byte orientation 81 * _NO_MODE Unoriented 82 */ 83 extern void _setorientation(FILE *, _IOP_orientation_t); 85 /* 86 * From page 32 of XSH5 87 * Once a wide-character I/O function has been applied 88 * to a stream without orientation, the stream becomes 89 * wide-oriented. Similarly, once a byte I/O function 89 * wide-orientated. Similarly, once a byte I/O function 90 * has been applied to a stream without orientation, 91 * the stream becomes byte-oriented. Only a call to 91 * the stream becomes byte-orientated. Only a call to 92 * the freopen() function or the fwide() function can 93 * otherwise alter the orientation of a stream. 94 */ 96 #define SET ORIENTATION BYTE(iop) \ 97 { \ 98 if (GET_NO_MODE(iop)) \ 99 _setorientation(iop, _BYTE_MODE); \ 100 } _unchanged_portion_omitted_

new/usr/src/man/man1m/mount nfs.1m 1 new/usr/src/man/man1m/mount nfs.1m 59 .ad 27255 Wed Jun 3 21:39:38 2015 60 .sp .6 61 .RS 4n new/usr/src/man/man1m/mount_nfs.1m 5956 orientate is not a word 62 Where \fIhost\fR is the name of the \fBNFS\fR server host, and \fIpathname\fR Reviewed by: Garrett D'Amore <garrett@damore.org> 63 is the path name of the directory on the server being mounted. The path name is Reviewed by: Marcel Telka <marcel@telka.sk> 64 interpreted according to the server's path name parsing rules and is not ********** 65 necessarily slash-separated, though on most servers, this is the case. 1 '\" te 66 .RE 2 . \" Copyright (c) 2009 Sun Microsystems, Inc. All Rights Reserved 3 .\" Copyright 1989 AT&T 68 .sp 4 . \" The contents of this file are subject to the terms of the Common Development 69 .ne 2 5 ./ " See the License for the specific language governing permissions and limitati 70 .na 6 . \" fields enclosed by brackets "[]" replaced with your own identifying informat 71 \fB\fInfs\fR://\fIhost\fR[:\fIport\fR]/\fIpathname\fR\fR 7 .TH MOUNT_NFS 1M "Jun 3, 2015" 72 .ad 73 .sp .6 7 .TH MOUNT_NFS 1M "Jul 26, 2009" 8 .SH NAME 74 .RS 4n 9 mount_nfs \- mount remote NFS resources 75 This is an \fBNFS\fR \fBURL\fR and follows the standard convention for 10 .SH SYNOPSIS 76 \fBNFS\fR \fBURL\fRs as described in \fINFS URL Scheme\fR, RFC 2224. See the 77 discussion of \fBURL\fR's and the public option under \fBNFS FILE SYSTEMS\fR 11 .LP 78 for a more detailed discussion. 12 .nf 13 \fBmount\fR [\fB-F\fR nfs] [\fIgeneric_options\fR] [\fB-o\fR \fIspecific_options 79 .RE 14 .fi 81 .sp 16 .LP 82 .ne 2 17 .nf 83 .na 84 \fB\fIhost\fR:\fIpathname\fR 18 \fBmount\fR [\fB-F\fR nfs] [\fIgeneric_options\fR] [\fB-o\fR \fIspecific_options 19 .fi 85 \fInfs\fR://\fIhost\fR[:\fIport\fR]/\fIpathname\fR\fR 86 .ad 21 .LP 87 .br 22 .nf 88 .na 23 \fBmount\fR [\fB-F\fR nfs] [\fIgeneric_options\fR] [\fB-o\fR \fIspecific_options 89 \fB\fR 24 [\fB-O\fR] \fIresource\fR \fImount_point\fR 90 .ad 25 .fi 91 .sp .6 92 .RS 4n 27 .SH DESCRIPTION 93 \flhost\fR:\flpathname\fR is a comma-separated list of 94 \flhost\fR:\flpathname\fR. 28 .sp 29 .LP 95 .sp 30 The \fBmount\fR utility attaches a named \fIresource\fR to the file system 96 See the discussion of replicated file systems and failover under \fBNFS FILE 31 hierarchy at the pathname location \fImount_point\fR, which must already exist. 97 SYSTEMS\fR for a more detailed discussion. 32 If \fImount_point\fR has any contents prior to the \fBmount\fR operation, the 98 RE 33 contents remain hidden until the \fIresource\fR is once again unmounted. 100 .sp 34 .sp 35 .LP 101 .ne 2 36 \fBmount_nfs\fR starts the \fBlockd\fR(1M) and \fBstatd\fR(1M) daemons if they 102 .na 103 \fB\fIhostlist\fR \fIpathname\fR\fR 37 are not already running. 38 .sp 104 ad 39 .LP 105 .sp .6 40 If the resource is listed in the $\beta / fR/etc/vfstab fR$ file, the command line can 106 .RS 4n 107 \fIhostlist\fR is a comma-separated list of hosts. 41 specify either \fIresource\fR or \fImount_point\fR, and \fBmount\fR consults 42 \fB/etc/vfstab\fR for more information. If the \fB-F\fR option is omitted, 108 .sp 43 \fBmount\fR takes the file system type from \fB/etc/vfstab\fR. 109 See the discussion of replicated file systems and failover under \fBNFS FILE 44 .sp 110 SYSTEMS\fR for a more detailed discussion. 45 .LP 111 .RE 46 If the resource is not listed in the \fB/etc/vfstab\fR file, then the command 47 line must specify both the \fIresource\fR and the \fImount_point\fR. 113 .sp 48 .sp 114 .LP 49 .LP 115 The \fBmount\fR command maintains a table of mounted file systems in 116 fB/etc/mnttab, described in fBmnttab(4). 50 \fIhost\fR can be an IPv4 or IPv6 address string. As IPv6 addresses already 51 contain colons, enclose \fIhost\fR in a pair of square brackets when specifying 117 .sp 52 an IPv6 address string. Otherwise the first occurrence of a colon can be 118 T.P 53 interpreted as the separator between the host name and path, for example, 119 \fBmount nfs\fR supports both NFSv3 and NFSv4 mounts. The default NFS version 54 \fB[1080::8:800:200C:417A]:tmp/file\fR. See \fBinet\fR(7P) and \fBinet6\fR(7P). 120 is NFSv4. 55 .sp 121 .SH OPTIONS 56 .ne 2 122 .sp 57 .na 123 LP 58 \fB\fIhost\fR:\fIpathname\fR\fR 124 See \fBmount\fR(1M) for the list of supported \fIgeneric_options\fR. See

new/usr/src/man/man1m/mount nfs.1m 3 new/usr/src/man/man1m/mount nfs.1m 4 125 \fBshare_nfs\fR(1M) for a description of server options. 191 description of how \fBacdirmax\fR, \fBacdirmin\fR, \fBacregmax\fR, 126 .sp 192 \fBacregmin\fR, and \fBactimeo\fR are parsed on a \fBmount\fR command line. 193 .RE 127 .ne 2 128 .na 129 \fB\fB-o\fR \fIspecific_options\fR\fR 195 .sp 130 .ad 196 .ne 2 131 .sp .6 197 .na 198 \fB\fBbg\fR | \fBfg\fR\fR 132 .RS 4n 133 Set file system specific options according to a comma-separated list with no 199 .ad 134 intervening spaces. 200 .sp .6 201 .RS 4n 135 .sp 136 .ne 2 202 If the first attempt fails, retry in the background, or, in the foreground. The 203 default is \fBfg\fR. 137 .na 138 \fB\fBacdirmax=\fR\fIn\fR\fR 204 .RE 139 .ad 140 .sp .6 206 .sp 141 RS 4n 207 .ne 2 142 Hold cached attributes for no more than \fIn\fR seconds after directory update. 208 .na 143 The default value is \fB60\fR. 209 \fB\fBforcedirectio\fR | \fBnoforcedirectio\fR\fR 144 RE 210 .ad 211 sp 6 146 .sp 212 .RS 4n 147 .ne 2 213 If fBforcedirectiofR is specified, then for the duration of the mount, forced 214 direct \fBI/O\fR is used. If the filesystem is mounted using 148 .na 149 \fB\fBacdirmin=\fR\fIn\fR\fR 215 \fBforcedirectio\fR, data is transferred directly between client and server, 216 with no buffering on the client. If the filesystem is mounted using 150 .ad 151 .sp .6 217 \fBnoforcedirectio\fR, data is buffered on the client. \fBforcedirectio\fR is a 218 performance option that is of benefit only in large sequential data transfers. 152 .RS 4n 153 Hold cached attributes for at least \fIn\fR seconds after directory update. The 219 The default behavior is \fBnoforcedirectio\fR. 154 default value is \fB30\fR. 220 .RE 155 .RE 222 .sp 157 .sp 223 .ne 2 158 .ne 2 224 .na 225 \fB\fBgrpid\fR\fR 159 .na 160 \fB\fBacreqmax=\fR\fIn\fR\fR 226 .ad 161 .ad 227 .sp .6 162 .sp .6 228 .RS 4n 163 .RS 4n 229 By default, the \fBGID\fR associated with a newly created file obeys the System 164 Hold cached attributes for no more than \fIn\fR seconds after file 230 V semantics; that is, the \fBGID\fR is set to the effective \fBGID\fR of the 165 modification. The default value is \fB60\fR. 231 calling process. This behavior can be overridden on a per-directory basis by 166 .RE 232 setting the set-GID bit of the parent directory; in this case, the \fBGID\fR of 233 a newly created file is set to the \fBGID\fR of the parent directory (see 168 .sp 234 fBopen fR(2) and fBmkdir fR(2). Files created on file systems that are 169 .ne 2 235 mounted with the \fBgrpid\fR option obeys \fBBSD\fR semantics independent of 170 .na 236 whether the set-GID bit of the parent directory is set; that is, the \fBGID\fR 171 \fB\fBacregmin=\fR\fIn\fR\fR 237 is unconditionally inherited from that of the parent directory. 172 .ad 238 .RE 173 .sp .6 174 .RS 4n 240 .sp 175 Hold cached attributes for at least \fIn\fR seconds after file modification. 241 .ne 2 176 The default value is $fB3\fR$. 242 .na 243 \fB\fBhard\fR | \fBsoft\fR\fR 177 .RE 244 .ad 179 .sp 245 .sp .6 180 .ne 2 246 .RS 4n 181 .na 247 Continue to retry requests until the server responds (\fBhard\fR) or give up 182 \fB\fBactimeo=\fR\fIn\fR\fR 248 and return an error (\fBsoft\fR). The default value is \fBhard\fR. Note that 183 .ad 249 NFSv4 clients do not support soft mounts. 250 .RE 184 .sp .6 185 .RS 4n 186 Set $fimin\$ and $fimax\$ times for regular files and directories to $fin\$ R 252 .sp 187 seconds. See "File Attributes," below, for a description of the effect of 253 .ne 2 254 .na 188 setting this option to \fB0\fR. 255 \fB\fBintr\fR | \fBnointr\fR\fR 189 .sp 190 See "Specifying Values for Attribute Cache Duration Options," below, for a 256 .ad

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257 .sp .6 258 .RS 4n 259 Allow (do not allow) keyboard interrupts to kill a process that is hung while 260 waiting for a response on a hard-mounted file system. The default is 261 \fBintr\fR, which makes it possible for clients to interrupt applications that 262 can be waiting for a remote mount. 263 .RE 265 .sp 266 .ne 2 267 .na 268 \fB\fBnoac\fR\fR 269 .ad 270 .sp .6 271 .RS 4n 272 Suppress data and attribute caching. The data caching that is suppressed is the 273 write-behind. The local page cache is still maintained, but data copied into it 274 is immediately written to the server. 275 .RE 277 .sp 278 .ne 2 279 .na 280 \fB\fBnocto\fR\fR 281 .ad 282 .sp .6 283 .RS 4n 284 Do not perform the normal close-to-open consistency. When a file is closed, all 285 modified data associated with the file is flushed to the server and not held on 286 the client. When a file is opened the client sends a request to the server to 287 validate the client's local caches. This behavior ensures a file's consistency 288 across multiple NFS clients. When \fB-nocto\fR is in effect, the client does 289 not perform the flush on close and the request for validation, allowing the 290 possiblity of differences among copies of the same file as stored on multiple 291 clients. 292 .sp 293 This option can be used where it can be guaranteed that accesses to a specified 294 file system are made from only one client and only that client. Under such a 295 condition, the effect of \fB-nocto\fR can be a slight performance gain. 296 .RE 298 .sp 299 .ne 2 300 .na 301 \fB\fBport=\fR\fIn\fR\fR 302 .ad 303 .sp .6 304 .RS 4n 305 The server \fBIP\fR port number. The default is \fBNFS_PORT\fR. If the 306 \fBport\fR option is specified, and if the resource includes one or more 307 \fBNFS\fR \fBURL\fRs, and if any of the \fBURL\fRs include a \fBport\fR number, 308 then the \fBport\fR number in the option and in the \fBURL\fR must be the same. 309 .RE 311 .sp 312 .ne 2 313 .na 314 \fB\fBposix\fR\fR 315 .ad 316 .sp .6 317 .RS 4n 318 Request \fBPOSIX.1\fR semantics for the file system. Requires a mount Version 2 319 fBmountd(fR(1M)) on the server. See fBstandards(fR(5)) for information 320 regarding POSIX. 321 .RE

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323 .sp 324 .ne 2 325 .na 326 \fB\fBproto=\fR\fInetid\fR | \fBrdma\fR\fR 327 .ad 328 .sp .6 329 .RS 4n $330\ \text{By}$ default, the transport protocol that the NFS mount uses is the first 331 available RDMA transport supported both by the client and the server. If no 332 RDMA transport is found, then it attempts to use a TCP transport or, failing 333 that, a UDP transport, as ordered in the fB/etc/netconfig fR file. If it does 334 not find a connection oriented transport, it uses the first available 335 connectionless transport. 336 .sp 337 Use this option to override the default behavior. 338 .sp 339 \fBproto\fR is set to the value of \fInetid\fR or \fBrdma\fR. \fInetid\fR is 340 the value of the \fBnetwork_id\fR field entry in the \fB/etc/netconfig\fR file. 341 .sp 342 The UDP protocol is not supported for NFS Version 4. If you specify a UDP 343 protocol with the \fBproto\fR option, NFS version 4 is not used. 344 .RE 346 .sp 347 .ne 2 348 .na 349 \fB\fBpublic\fR\fR 350 .ad 351 .sp .6 352 .RS 4n 353 The \fBpublic\fR option forces the use of the public file handle when 354 connecting to the \fBNFS\fR server. The resource specified might not have an 355 \fBNFS\fR \fBURL\fR. See the discussion of \fBURL\fRs and the public option 356 under \fBNFS FILE SYSTEMS\fR for a more detailed discussion. 357 .RE 359 .sp 360 .ne 2 361 .na 362 \fB\fBquota\fR | \fBnoquota\fR\fR 363 .ad 364 .sp .6 365 .RS 4n 366 Enable or prevent fR(1M) to check whether the user is over quota on 367 this file system; if the file system has quotas enabled on the server, quotas 368 are still checked for operations on this file system. 369 .RE 371 .sp 372 .ne 2 373 .na 374 \fB\fBremount\fR\fR 375 .ad 376 .sp .6 377 .RS 4n 378 Remounts a read-only file system as read-write (using the \fBrw\fR option). 379 This option cannot be used with other $B-o\R$ options, and this option works 380 only on currently mounted read-only file systems. 381 .RE 383 .sp 384 .ne 2 385 .na 386 \fB\fBretrans=\fR\fIn\fR\fR 387 .ad 388 .sp .6

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389 .RS 4n 390 Set the number of \fBNFS\fR retransmissions to \fIn\fR. The default value is 391 \fB5\fR. For connection-oriented transports, this option has no effect because 392 it is assumed that the transport performs retransmissions on behalf of NFS. 393 .RE

395 .sp 396 .ne 2 397 .na 398 \fB\fBretry=\fR\fIn\fR\fR 399 .ad 400 .sp .6 401 .RS 4n 402 The number of times to retry the \fBmount\fR operation. The default for the 403 \fBmount\fR command is \fB10000\fR. 404 .sp 405 The default for the automounter is $fB0\fR$, in other words, do not retry. You 406 might find it useful to increase this value on heavily loaded servers, where 407 automounter traffic is dropped, causing unnecessary server not responding 408 errors 409 .RE 411 .sp 412 .ne 2 413 .na 414 \fB\fBrsize=\fR\fIn\fR\fR 415 .ad 416 .sp .6 417 .RS 4n 418 Set the read buffer size to a maximum of \fIn\fR bytes. The default value is 419 \fB1048576\fR when using connection-oriented transports with Version 3 or 419 \fB1048576\fR when using connection-orientated transports with Version 3 or 420 Version 4 of the \fBNFS\fR protocol, and \fB32768\fR when using connection-less 421 transports. The default can be negotiated down if the server prefers a smaller 422 transfer size. "\fBRead\fR" operations may not necessarily use the maximum 423 buffer size. When using Version 2, the default value is \fB32768\fR for all 424 transports. 425 .RE 427 .sp 428 .ne 2 429 .na 430 \fB\fBsec=\fR\fImode\fR\fR 431 .ad 432 .sp .6 433 .RS 4n 434 Set the security \fImode\fR for \fBNFS\fR transactions. If \fBsec=\fR is not 435 specified, then the default action is to use \fBAUTH SYS\fR over \fBNFS\fR 436 Version 2 mounts, use a user-configured default \fBauth\fR over NFS version 3 437 mounts, or to negotiate a mode over Version 4 mounts. 438 .sp 439 The preferred mode for NFS Version 3 mounts is the default mode specified in 440 fB/etc/nfssec.conf fR (see fBnfssec.conf fR(4)) on the client. If there is no 441 default configured in this file or if the server does not export using the 442 client's default mode, then the client picks the first mode that it supports in 443 the array of modes returned by the server. These alternatives are limited to 444 the security flavors listed in \fB/etc/nfssec.conf\fR. 445 .sp 446 NFS Version 4 mounts negotiate a security mode when the server returns an array 447 of security modes. The client attempts the mount with each security mode, in 448 order, until one is successful. 449 .sp 450 Only one mode can be specified with the fBsec=fR option. See fBnfssec[fR(5)]451 for the available \fImode\fR options. 452 .RE

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454 .sp 455 .ne 2 456 .na 457 \fB\fBsecure\fR\fR 458 .ad 459 .sp .6 460 .RS 4n 461 This option has been deprecated in favor of the \fBsec=\fR\fIdh\fR option. 462 .RE 464 .sp 465 .ne 2 466 .na 467 \fB\fBtimeo=\fR\fIn\fR\fR 468 .ad 469 .sp .6 470 .RS 4n 471 Set the \fBNFS\fR timeout to \fIn\fR tenths of a second. The default value is 472 $fB11\fR$ tenths of a second for connectionless transports, and $fB600\fR$ tenths 473 of a second for connection-oriented transports. This value is ignored for 474 connectionless transports. Such transports might implement their own timeouts, 475 which are outside the control of NFS. 476 .RE 478 .sp 479 .ne 2 480 .na 481 \fB\fBvers=\fR\fINFS version number\fR\fR 482 .ad 483 .sp .6 484 .RS 4n 485 By default, the version of \fBNFS\fR protocol used between the client and the 486 server is the highest one available on both systems. The default maximum for 487 the client is Version 4. This can be changed by setting the 488 \fBNFS_CLIENT_VERSMAX\fR parameter in \fB/etc/default/nfs\fR to a valid version 489 (2, 3, or 4). If the \fBNFS\fR server does not support the client's default 490 maximum, the next lowest version attempted until a matching version is found. 491 .RE 493 .sp 494 .ne 2 495 .na 496 \fB\fBwsize=\fR\fIn\fR\fR 497 .ad 498 .sp .6 499 .RS 4n 500 Set the write buffer size to a maximum of \fIn\fR bytes. The default value is 501 \fB1048576\fR when using connection-oriented transports with Version 3 or 501 \fB1048576\fR when using connection-orientated transports with Version 3 or 502 Version 4 of the \fBNFS\fR protocol, and \fB32768\fR when using connection-less 503 transports. The default can be negotiated down if the server prefers a smaller 504 transfer size. "\fBWrite\fR" operations may not necessarily use the maximum 505 buffer size. When using Version 2, the default value is \fB32768\fR for all 506 transports. 507 .RE 509 .sp 510 .ne 2 511 .na 512 \fB\fBxattr\fR | \fBnoxattr\fR\fR 513 .ad 514 .sp .6 515 .RS 4n 516 Allow or disallow the creation and manipulation of extended attributes. The 517 default is \fBxattr\fR. See \fBfsattr\fR(5) for a description of extended

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518 attributes.

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519 .RE

521 .RE 523 .sp 524 .ne 2 525 .na 526 \fB\fB-O\fR\fR 527 .ad 528 .sp .6 529 .RS 4n 530 Overlay mount. Allow the file system to be mounted over an existing mount 531 point, making the underlying file system inaccessible. If a mount is attempted 532 on a pre-existing mount point without setting this flag, the mount fails, 533 producing the error "device busy." 534 .RE 536 .SH NFS FILE SYSTEMS 537 .sp 538 .ne 2 539 .na 540 \fBBackground versus Foreground\fR 541 .ad 542 .sp .6 543 .RS 4n 544 File systems mounted with the $fBbg\fR$ option indicate that $fRmount\fR$ is to 545 retry in the background if the server's mount daemon (\fBmountd\fR(1M)) does 546 not respond. \fBmount\fR retries the request up to the count specified in the 547 \fBretry=\fR\fIn\fR option. (Note that the default value for \fBretry\fR 548 differs between \fBmount\fR and \fBautomount\fR. See the description of 549 \fBretry\fR, above.) Once the file system is mounted, each \fBNFS\fR request 550 made in the kernel waits fBtimeo=fRfinfR tenths of a second for a response. 551 If no response arrives, the time-out is multiplied by \fB2\fR and the request 552 is retransmitted. When the number of retransmissions has reached the number 553 specified in the \fBretrans=\fR\fIn\fR option, a file system mounted with the 554 \fBsoft\fR option returns an error on the request; one mounted with the 555 \fBhard\fR option prints a warning message and continues to retry the request. 556 .RE 558 .sp 559 .ne 2 560 .na 561 \fBHard versus Soft\fR 562 .ad 563 .sp .6 564 .RS 4n 565 File systems that are mounted read-write or that contain executable files 566 should always be mounted with the \fBhard\fR option. Applications using 567 \fBsoft\fR mounted file systems can incur unexpected \fBI/0\fR errors, file 568 corruption, and unexpected program core dumps. The soft option is not 569 recommended. 570 .RE 572 .sp 573 .ne 2 574 .na 575 \fBAuthenticated requests\fR 576 .ad 577 .sp .6 578 .RS 4n 579 The server can require authenticated \fBNFS\fR requests from the client. 580 \fBsec=\fR\fIdh\fR authentication might be required. See \fBnfssec\fR(5). 581 .RE 583 .sp 584 .ne 2

new/usr/src/man/man1m/mount nfs.1m 585 .na 586 \fBURLs and the public option\fR 587 .ad 588 .sp .6 589 .RS 4n 590 If the \fBpublic\fR option is specified, or if the \fIresource\fR includes and 591 \fBNFS\fR \fBURL\fR, \fBmount\fR attempts to connect to the server using the 592 public file handle lookup protocol. See fIWebNFS Client Specification \overline{R} , RFC 593 2054. If the server supports the public file handle, the attempt is successful; 594 \fBmount\fR does not need to contact the server's $fBrpcbind\fR(1M)$ and the 595 \fBmountd\fR(1M) daemons to get the port number of the \fBmount\fR server and 596 the initial file handle of $flpathname\fr, respectively. If the fBNFS\fr$ 597 client and server are separated by a firewall that allows all outbound 598 connections through specific ports, such as \fBNFS_PORT\fR, then this enables 599 \fBNFS\fR operations through the firewall. The public option and the \fBNFS\fR 600 \fBURL\fR can be specified independently or together. They interact as 601 specified in the following matrix: 602 .sp 603 .in +2 604 .nf 605 Resource Style 607 \flhost\fR:\flpathname\fR NFS URL 609 public option Force public file Force public file handle and fail 610 handle and fail 611 mount if not supported. mount if not supported. 613 Use Native paths. Use Canonical paths. 615 default Use MOUNT protocol. Try public file handle 616 with Canonical paths. 617 Fall back to MOUNT 618 protocol if not 619 supported. 620 .fi 621 .in -2 623 A Native path is a path name that is interpreted according to conventions used 624 on the native operating system of the \fBNFS\fR server. A Canonical path is a 625 path name that is interpreted according to the \fBURL\fR rules. See \fIUniform 626 Resource Locators (URL)\fR, RFC 1738. See for uses of Native and Canonical 627 paths. 628 .RE 630 .sp 631 .ne 2 632 na 633 \fBReplicated file systems and failover\fR 634 .ad 635 .sp .6 636 .RS 4n 637 \fIresource\fR can list multiple read\(mionly file systems to be used to 638 provide data. These file systems should contain equivalent directory structures 639 and identical files. It is also recommended that they be created by a utility 640 such as fBrdistfR(1). The file systems can be specified either with a 641 comma\(miseparated list of \flhost:/pathname\fR entries and/or \fBNFS\fR 642 \fBURL\fR entries, or with a comma \(miseparated list of hosts, if all file 643 system names are the same. If multiple file systems are named and the first 644 server in the list is down, failover uses the next alternate server to access 645 files. If the read (mionly option is not chosen, replication is disabled. File 646 access, for NFS Versions 2 and 3, is blocked on the original if NFS locks are 647 active for that file. 648 .RE

650 .SS "File Attributes"

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new/usr/src/man/man1m/mount nfs.1m 11 new/usr/src/man/man1m/mount nfs.1m 651 .sp 717 T.D 652 .LP 718 To mount an \fBNFS\fR file system: 653 To improve \fBNFS\fR read performance, files and file attributes are cached. 720 .sp 654 File modification times get updated whenever a write occurs. However, file 655 access times can be temporarily out-of-date until the cache gets refreshed. 721 .in +2 722 .nf 656 .sp 657 .LP 723 example# mount serv:/usr/src /usr/src 658 The attribute cache retains file attributes on the client. Attributes for a 724 .fi 659 file are assigned a time to be flushed. If the file is modified before the 725 .in -2 660 flush time, then the flush time is extended by the time since the last 726 .sp 661 modification (under the assumption that files that changed recently are likely 662 to change soon). There is a minimum and maximum flush time extension for 728 LP 663 regular files and for directories. Setting \fBactimeo=\fR\fIn\fR sets flush 729 \fBExample 2 \fRMounting An \fBNFS\fR File System Read-Only With No suid 664 time to \fIn\fR seconds for both regular files and directories. 730 Privileges 665 .sp 731 .sp 666 .LP 732 .LP 667 Setting $fBactimeo=0\R$ disables attribute caching on the client. This means 733 To mount an \fBNFS\fR file system read-only with no suid privileges: 668 that every reference to attributes is satisfied directly from the server though 735 .sp 669 file data is still cached. While this guarantees that the client always has the 670 latest file attributes from the server, it has an adverse effect on performance 736 .in +2 671 through additional latency, network load, and server load. 737 .nf 672 .sp 738 example# mount -r -o nosuid serv:/usr/src /usr/src 673 .LP 739 .fi 674 Setting the \fBnoac\fR option also disables attribute caching, but has the 740 .in -2 675 further effect of disabling client write caching. While this guarantees that 741 .sp 676 data written by an application is written directly to a server, where it can be 677 viewed immediately by other clients, it has a significant adverse effect on 743 .LP 678 client write performance. Data written into memory-mapped file pages 744 \fBExample 3 \fRMounting An \fBNFS\fR File System Over Version 2, with the UDP 679 (\fBmmap\fR(2)) are not written directly to this server. 745 Transport 680 .SS "Specifying Values for Attribute Cache Duration Options" 746 .sp 681 .sp 747 .LP 682 .LP 748 To mount an \fBNFS\fR file system over Version 2, with the UDP transport: 683 The attribute cache duration options are \fBacdirmax\fR, \fBacdirmin\fR, 684 \fBacregmax\fR, \fBacregmin\fR, and \fBactimeo\fR, as described under OPTIONS. 750 .sp 685 A value specified for \fBactimeo\fR sets the values of all attribute cache 751 .in +2 686 duration options except for any of these options specified following 752 .nf 753 example# mount -o vers=2,proto=udp serv:/usr/src /usr/src 687 \fBactimeo\fR on a \fBmount\fR command line. For example, consider the 688 following command: 754 .fi 689 .sp 755 .in -2 690 .in +2 756 .sp 691 .nf 692 example# mount -o acdirmax=10,actimeo=1000 server:/path /localpath 758 .LP 693 .fi 759 \fBExample 4 \fRMounting an \fBNFS\fR File System Using An \fBNFS\fR \fBURL\fR 760 .sp 694 .in -2 761 .LP 696 .sp 762 To mount an $fBNFS\fR$ file system using an $fBNFS\fR \fBURL\fR$ (a canonical 697 .LP 763 path): 698 Because \fBactimeo\fR is the last duration option in the command line, its 765 .sp 699 value (\fB1000\fR) becomes the setting for all of the duration options, 700 including \fBacdirmax\fR. Now consider: 766 .in +2 767 .nf 701 .sp 702 .in +2 768 example# mount nfs://serv/usr/man /usr/man 703 .nf 769 .fi 704 example# mount -o actimeo=1000,acdirmax=10 server:/path /localpath 770 .in -2 705 .fi 771 .sp 706 .in -2 773 .LP 708 .sp 774 \fBExample 5 \fRMounting An \fBNFS\fR File System Forcing Use Of The Public 709 .LP 775 File Handle 710 Because the \fBacdirmax\fR option follows \fBactimeo\fR on the command line, it 776 .sp 711 is assigned the value specified (fB10/fR). The remaining duration options are 777 .LP 712 set to the value of \fBactimeo\fR (\fB1000\fR). 778 To mount an \fBNFS\fR file system and force the use of the public file handle 713 .SH EXAMPLES 779 and an \fBNFS\fR \fBURL\fR (a canonical path) that has a non 7-bit ASCII escape 714 .LP 780 sequence: 715 \fBExample 1 \fRMounting an \fBNFS\fR File System 716 .sp 782 .sp

new/usr/src/man/man1m/mount nfs.1m 13 new/usr/src/man/man1m/mount nfs.1m 14 783 .in +2 849 \fB\fB/etc/dfs/fstypes\fR\fR 784 .nf 850 .ad 851 .sp .6 785 example# mount -o public nfs://serv/usr/%A0abc /mnt/test 786 .fi 852 .RS 4n 787 .in -2 853 default distributed file system type 788 .sp 854 RE 790 .LP 856 .sp 791 \fBExample 6 \fRMounting an \fBNFS\fR File System Using a Native Path 857 .ne 2 792 .sp 858 .na 793 .LP 859 \fB\fB/etc/vfstab\fR\fR 794 To mount an \fBNFS\fR file system using a native path (where the server uses 860 .ad 795 colons (":") as the component separator) and the public file handle: 861 .sp .6 862 .RS 4n 797 .sp 863 table of automatically mounted resources 798 .in +2 864 .RE 799 .nf 800 example# mount -o public serv:C:doc:new /usr/doc 866 .SH SEE ALSO 867 .sp 801 .fi 802 .in -2 868 .LP 803 .sp 869 \fBrdist\fR(1), \fBlockd\fR(1M), \fBmountall\fR(1M), \fBmountd\fR(1M), 870 \fBnfsd\fR(1M), \fBquota\fR(1M), \fBstatd\fR(1M), \fBmkdir\fR(2), 871 \fBmmap\fR(2), \fBmount\fR(2), \fBopen\fR(2), \fBumount\fR(2), \fBmnttab\fR(4), 805 .LP 806 \fBExample 7 \fRMounting a Replicated Set of \fBNFS\fR File Systems with the 872 fBnfsfR(4), fBnfssec.conffR(4), fBattributesfR(5), fBfsattrfR(5), 807 Same Pathnames 873 \fBnfssec\fR(5), \fBstandards\fR(5), \fBinet\fR(7P), \fBinet6\fR(7P), 808 .sp 874 \fBlofs\fR(7FS) 809 .LP 875 .sp 810 To mount a replicated set of \fBNFS\fR file systems with the same pathnames: 876 .LP 877 Callaghan, Brent, \fIWebNFS Client Specification\fR, RFC 2054, October 1996. 878 .sp 812 .sp 813 .in +2 879 .LP 814 .nf 880 Callaghan, Brent, \fINFS URL Scheme\fR, RFC 2224, October 1997. 815 example# mount serv\(mia,serv\(mib,serv\(mic:/usr/man /usr/man 881 .sp 816 .fi 882 .LP 817 .in -2 883 Berners-Lee, Masinter & McCahill , \fIUniform Resource Locators (URL)\fR, RFC 818 .sp 884 1738, December 1994. 885 .SH NOTES 886 .sp 821 \fBExample 8 \fRMounting a Replicated Set of \fBNFS\fR File Systems with 887 .LP 822 Different Pathnames 888 An \fBNFS\fR server should not attempt to mount its own file systems. See 889 \fBlofs\fR(7FS). 823 .sp 824 .LP 890 .sp 825 To mount a replicated set of \fBNFS\fR file systems with different pathnames: 891 .LP 892 If the directory on which a file system is to be mounted is a symbolic link, 893 the file system is mounted on \fBthe directory to which the symbolic link 827 .sp 828 .in +2 894 refers, \fR rather than being mounted on top of the symbolic link itself. 829 .nf 895 .sp 830 example# mount serv\(mix:/usr/man,serv\(miy:/var/man,nfs://serv-z/man /usr/man 896 .LP 831 .fi 897 SunOS 4.x used the \fBbiod\fR maintenance procedure to perform parallel 832 .in -2 898 read-ahead and write-behind on \fBNFS\fR clients. SunOS 5.x made \fBbiod\fR 899 obsolete with multi-threaded processing, which transparently performs parallel 833 .sp 900 read-ahead and write-behind. 835 .SH FILES 901 .sp 836 .sp 902 .LP 837 .ne 2 903 Since the root fB(f/f) file system is mounted read-only by the kernel 838 .na 904 during the boot process, only the \fBremount\fR option (and options that can be 839 \fB\fB/etc/mnttab\fR\fR 905 used in conjunction with \fBremount\fR) affect the root (\fB/\fR) entry in the 840 .ad 906 \fB/etc/vfstab\fR file. 841 .sp .6 907 .sp 842 .RS 4n 908 T.P 843 table of mounted file systems 909 \fBmount cachefs\fR cannot be used with replicated NFS mounts or any NFS 910 Version 4 mount. 844 .RE 911 .sp 846 .sp 912 .LP 847 .ne 2 913 The NFS client service is managed by the service management facility, 848 .na 914 \fBsmf\fR(5), under the service identifier:

new/usr/src/man/man1m/mount_nfs.1m

915 .sp 916 .in +2 917 .nf 918 svc:/network/nfs/client:default 919 .fi 920 .in -2

921 .sp

- 923 .sp 924 .LP 925 Administrative actions on this service, such as enabling, disabling, or 926 requesting restart, can be performed using \fBsvcadm\fR(1M). The service's 927 status can be queried using the \fBsvcs\fR(1) command.

new/usr/src/man/man3c/fwide.3c 1 3839 Wed Jun 3 21:39:39 2015 new/usr/src/man/man3c/fwide.3c 5956 orientate is not a word Reviewed by: Garrett D'Amore <garrett@damore.org> Reviewed by: Marcel Telka <marcel@telka.sk> ********** 1 '\" te 2 ./" Copyright (c) 1992, X/Open Company Limited All Rights Reserved Portions Co 3 . \" Sun Microsystems, Inc. gratefully acknowledges The Open Group for permission 4 .\" http://www.opengroup.org/bookstore/. 5 ./" The Institute of Electrical and Electronics Engineers and The Open Group, ha 6 .\" This notice shall appear on any product containing this material. 7 . \" The contents of this file are subject to the terms of the Common Development 8 .\" You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE or http: 9 . \" When distributing Covered Code, include this CDDL HEADER in each file and in 10 .TH FWIDE 3C "Jun 3, 2015" 10 .TH FWIDE 3C "Jul 24, 2002" 11 .SH NAME 12 fwide \- set stream orientation 13 .SH SYNOPSIS 14 .LP 15 .nf 16 #include <stdio.h> 17 #include <wchar.h> 19 \fBint\fR \fBfwide\fR(\fBFILE *\fR\fIstream\fR, \fBint\fR \fImode\fR); 20 .fi 22 .SH DESCRIPTION 23 .sp 24 .LP 25 The \fBfwide()\fR function determines the orientation of the stream pointed to 26 by \fIstream\fR. If \fImode\fR is greater than 0, the function first attempts 27 to make the stream wide-oriented. If \fImode\fR is less than 0, the function 28 first attempts to make the stream byte-oriented. Otherwise, \fImode\fR is 0 27 to make the stream wide-orientated. If \fImode\fR is less than 0, the function 28 first attempts to make the stream byte-orientated. Otherwise, \fImode\fR is 0 29 and the function does not alter the orientation of the stream. 30 .sp 31 .LP 32 If the orientation of the stream has already been determined, \fBfwide()\fR 33 does not change it. 34 .sp 35 .LP 36 Because no return value is reserved to indicate an error, an application 37 wishing to check for error situations should set $fBerrno\fR$ to 0, then call 38 fBfwide() fR, then check fBerrno fR and if it is non-zero, assume an error 39 has occurred. 40 .SH RETURN VALUES 41 .sp 42 .LP 43 The \fBfwide()\fR function returns a value greater than 0 if, after the call, 44 the stream has wide-orientation, a value less than 0 if the stream has 45 byte-orientation, or 0 if the stream has no orientation. 46 .SH ERRORS 47 .sp 48 .LP 49 The \fBfwide()\fR function may fail if: 50 .sp 51 .ne 2 52 .na 53 \fB\fBEBADF\fR\fR 54 .ad 55 .RS 9n 56 The \fIstream\fR argument is not a valid stream.

new/usr/src/man/man3c/fwide.3c

57 .RE

59 .SH USAGE

- 60 .sp
- 61 .LP
- 62 A call to \fBfwide()\fR with \fImode\fR set to 0 can be used to determine the 63 current orientation of a stream.
- 64 .SH ATTRIBUTES
- 65 .sp
- 66 .LP
- 67 See \fBattributes\fR(5) for descriptions of the following attributes:

68 .sp 70 .sp

- 71 .TS
- 72 box;
- 73 c | c 74 1 | 1
- i .
- 75 ATTRIBUTE TYPE ATTRIBUTE VALUE 76
- 77 Interface Stability Standard
- 78 MT-Safe
- 79 MT-Level 80 .TE
- 82 .SH SEE ALSO
- 83.sp
- 84 .LP
- 85 \fBattributes\fR(5), \fBstandards\fR(5)

4405 Wed Jun 3 21:39:39 2015 new/usr/src/uts/common/sys/t_kuser.h 5956 orientate is not a word Reviewed by: Garrett D'Amore <garrett@damore.org> Reviewed by: Marcel Telka <marcel@telka.sk> 1 /* 2 * CDDL HEADER START 3 * 4 * The contents of this file are subject to the terms of the * Common Development and Distribution License, Version 1.0 only 5 * (the "License"). You may not use this file except in compliance 6 7 * with the License. 8 9 * You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE 10 * or http://www.opensolaris.org/os/licensing. 11 * See the License for the specific language governing permissions 12 * and limitations under the License. 13 * 14 $\,$ * When distributing Covered Code, include this CDDL HEADER in each 15 * file and include the License file at usr/src/OPENSOLARIS.LICENSE. 16 * If applicable, add the following below this CDDL HEADER, with the 17 * fields enclosed by brackets "[]" replaced with your own identifying 18 * information: Portions Copyright [yyyy] [name of copyright owner] 19 * 20 * CDDL HEADER END 21 */ 22 /* 23 * Copyright 2014 Garrett D'Amore <garrett@damore.org> 24 * 25 * Copyright 1998 Sun Microsystems, Inc. All rights reserved. 26 * Use is subject to license terms. 27 */ 29 /* Copyright (c) 1983, 1984, 1985, 1986, 1987, 1988, 1989 AT&T 30 /* All Rights Reserved */ 32 /* 33 * University Copyright- Copyright (c) 1982, 1986, 1988 34 * The Regents of the University of California 35 * All Rights Reserved 36 * 37 * University Acknowledgment- Portions of this document are derived from 38 * software developed by the University of California, Berkeley, and its 39 * contributors. 40 */ 42 #ifndef _SYS_T_KUSER_H 43 #define _SYS_T_KUSER_H 45 #include <sys/types.h> 46 #include <sys/file.h> 47 #include <sys/cred.h> 48 #include <sys/stream.h> 49 #include <sys/tiuser.h> 51 #ifdef __cplusplus 52 extern "C" { 53 #endif 55 /* 56 * Note this structure will need to be expanded to handle data 57 * related to connection oriented transports. 57 * related to connection orientated transports. 58 */

new/usr/src/uts/common/sys/t_kuser.h

1

*/

59	typedef	struct	tiuser {						
60		struct	file *fp	;					
61		struct	t_info t	_info;	/*	Transport	provider	Info.	*/
62		int	flags;						
63	<pre>} TIUSEH</pre>	र <i>;</i>							

unchanged_portion_omitted_