

in

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REVISION HISTORY

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Chapter 1

in

1.1 ModuleInformation

```
ShowModule v1.10 (c) 1992 $#%!
now showing: "dos/dosextens.m"
NOTE: don't use this output in your code, use the module instead.
```

```
(----) OBJECT filelock
(  0)  link:LONG
(  4)  key:LONG
(  8)  access:LONG
( 12)  task:PTR TO mp
( 16)  volume:LONG
(----) ENDOBJECT      /* SIZEOF=20 */

(----) OBJECT devproc
(  0)  port:PTR TO mp
(  4)  lock:LONG
(  8)  flags:LONG
( 12)  devnode:PTR TO doslist
(----) ENDOBJECT      /* SIZEOF=16 */

(----) OBJECT assignlist
(  0)  next:PTR TO assignlist
(  4)  lock:LONG
(----) ENDOBJECT      /* SIZEOF=8 */

(----) OBJECT doslist
(  0)  next:LONG
(  4)  type:LONG
(  8)  task:PTR TO mp
( 12)  lock:LONG
( 16)  volumedate:datestamp (or ARRAY OF datestamp)
( 16)  handler:PTR TO CHAR
( 16)  assignname:PTR TO CHAR
( 20)  stacksize:LONG
( 20)  list:PTR TO assignlist
( 24)  priority:LONG
( 28)  locklist:LONG
( 28)  startup:LONG
( 32)  disktype:LONG
```

```
( 32)  seglist:LONG
( 36)  globvec:LONG
( 40)  name:PTR TO CHAR
(----) ENDOBJECT      /* SIZEOF=44 */

(----) OBJECT devinfo
(  0)  next:LONG
(  4)  type:LONG
(  8)  task:LONG
( 12)  lock:LONG
( 16)  handler:PTR TO CHAR
( 20)  stacksize:LONG
( 24)  priority:LONG
( 28)  startup:LONG
( 32)  seglist:LONG
( 36)  globvec:LONG
( 40)  name:PTR TO CHAR
(----) ENDOBJECT      /* SIZEOF=44 */

(----) OBJECT devlist
(  0)  next:LONG
(  4)  type:LONG
(  8)  task:PTR TO mp
( 12)  lock:LONG
( 16)  volumedate:datestamp (or ARRAY OF datestamp)
( 28)  locklist:LONG
( 32)  disktype:LONG
( 36)  unused:LONG
( 40)  name:PTR TO CHAR
(----) ENDOBJECT      /* SIZEOF=44 */

(----) OBJECT commandlineinterface
(  0)  result2:LONG
(  4)  setname:PTR TO CHAR
(  8)  commanddir:LONG
( 12)  returncode:LONG
( 16)  commandname:PTR TO CHAR
( 20)  faillevel:LONG
( 24)  prompt:PTR TO CHAR
( 28)  standardinput:LONG
( 32)  currentinput:LONG
( 36)  commandfile:PTR TO CHAR
( 40)  interactive:LONG
( 44)  background:LONG
( 48)  currentoutput:LONG
( 52)  defaultstack:LONG
( 56)  standardoutput:LONG
( 60)  module:LONG
(----) ENDOBJECT      /* SIZEOF=64 */

(----) OBJECT segment
(  0)  next:LONG
(  4)  uc:LONG
(  8)  seg:LONG
( 12)  name[4]:ARRAY OF CHAR
(----) ENDOBJECT      /* SIZEOF=16 */
```

```
(----) OBJECT dosinfo
(  0)  mcname:LONG
(  4)  devinfo:LONG
(  8)  devices:LONG
( 12)  handlers:LONG
( 16)  nethand:LONG
( 20)  devlock:ss (or ARRAY OF ss)
( 66)  entrylock:ss (or ARRAY OF ss)
(112)  deletelock:ss (or ARRAY OF ss)
(----) ENDOBJECT      /* SIZEOF=158 */

(----) OBJECT cliproclist
(  0)  node:mln (or ARRAY OF mln)
(  8)  first:LONG
( 12)  array:PTR TO LONG
(----) ENDOBJECT      /* SIZEOF=16 */

(----) OBJECT rootnode
(  0)  taskarray:LONG
(  4)  consolesegment:LONG
(  8)  time:datestamp (or ARRAY OF datestamp)
( 20)  restartseg:LONG
( 24)  info:LONG
( 28)  filehandlersegment:LONG
( 32)  clilist:mlh (or ARRAY OF mlh)
( 44)  bootproc:PTR TO mp
( 48)  shellsegment:LONG
( 52)  flags:LONG
(----) ENDOBJECT      /* SIZEOF=56 */

(----) OBJECT doslibrary
(  0)  lib:lib (or ARRAY OF lib)
( 34)  root:PTR TO rootnode
( 38)  gv:LONG
( 42)  a2:LONG
( 46)  a5:LONG
( 50)  a6:LONG
( 54)  errors:PTR TO errorstring
( 58)  timereq:PTR TO timerequest
( 62)  utilitybase:PTR TO lib
( 66)  intuitionbase:PTR TO lib
(----) ENDOBJECT      /* SIZEOF=70 */

(----) OBJECT errorstring
(  0)  nums:PTR TO LONG
(  4)  strings:PTR TO CHAR
(----) ENDOBJECT      /* SIZEOF=8 */

(----) OBJECT standardpacket
(  0)  msg:mn (or ARRAY OF mn)
( 20)  pkt:dospacket (or ARRAY OF dospacket)
(----) ENDOBJECT      /* SIZEOF=68 */

(----) OBJECT dospacket
(  0)  link:PTR TO mn
(  4)  port:PTR TO mp
(  8)  action:LONG
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```
( 8)    type:LONG
( 12)   status:LONG
( 12)   res1:LONG
( 16)   status2:LONG
( 16)   res2:LONG
( 20)   bufaddr:LONG
( 20)   arg1:LONG
( 24)   arg2:LONG
( 28)   arg3:LONG
( 32)   arg4:LONG
( 36)   arg5:LONG
( 40)   arg6:LONG
( 44)   arg7:LONG
(----) ENDOBJECT      /* SIZEOF=48 */

(----) OBJECT filehandle
( 0)    link:PTR TO mn
( 4)    interactive:PTR TO mp
( 8)    type:PTR TO mp
( 12)   buf:LONG
( 16)   pos:LONG
( 20)   end:LONG
( 24)   funcs:LONG
( 28)   func2:LONG
( 32)   func3:LONG
( 36)   args:LONG
( 40)   arg2:LONG
(----) ENDOBJECT      /* SIZEOF=44 */

(----) OBJECT process
( 0)    task:tc (or ARRAY OF tc)
( 92)   msgport:mp (or ARRAY OF mp)
( 126)  pad:INT
( 128)  seglist:LONG
( 132)  stacksize:LONG
( 136)  globvec:LONG
( 140)  tasknum:LONG
( 144)  stackbase:LONG
( 148)  result2:LONG
( 152)  currentdir:LONG
( 156)  cis:LONG
( 160)  cos:LONG
( 164)  consoletask:LONG
( 168)  filesystemtask:LONG
( 172)  cli:LONG
( 176)  returnaddr:LONG
( 180)  pktwait:LONG
( 184)  windowptr:LONG
( 188)  homedir:LONG
( 192)  flags:LONG
( 196)  exitcode:LONG
( 200)  exitdata:LONG
( 204)  arguments:PTR TO CHAR
( 208)  localvars:mlh (or ARRAY OF mlh)
( 220)  shellprivate:LONG
( 224)  ces:LONG
(----) ENDOBJECT      /* SIZEOF=228 */
```

```
CONST ACTION_CREATE_DIR=22,  
      ACTION_COPY_DIR=19,  
      ACTION_DISK_TYPE=$20,  
      DLT_PRIVATE=-1,  
      RUN_EXECUTE=-1,  
      ACTION_FINDINPUT=$3ED,  
      PRF_CLOSEINPUT=8,  
      PRB_CLOSEINPUT=3,  
      LDF_WRITE=2,  
      LDB_WRITE=1,  
      ACTION_WRITE=$57,  
      ACTION_FLUSH=27,  
      ACTION_PARENT_FH=$407,  
      REPORT_TASK=1,  
      ACTION_FORMAT=$3FC,  
      CMD_DISABLED=$FFFFFFC19,  
      ACTION_FINDUPDATE=$3EC,  
      ACTION_SET_DATE=$22,  
      ACTION_FREE_RECORD=$7D9,  
      ACTION_LOCK_RECORD=$7D8,  
      REPORT_LOCK=2,  
      DVPF_UNLOCK=1,  
      DVPB_UNLOCK=0,  
      ACTION_FH_FROM_LOCK=$402,  
      ACTION_SAME_LOCK=$28,  
      ACTION_FREE_LOCK=15,  
      ACTION_GET_BLOCK=2,  
      PRF_FREECLI=4,  
      PRB_FREECLI=2,  
      ST_USERDIR=2,  
      PRF_FREECURRDIR=2,  
      PRB_FREECURRDIR=1,  
      DLT_NONBINDING=4,  
      ACTION_EVENT=6,  
      ACTION_EXAMINE_OBJECT=23,  
      ACTION_RENAME_OBJECT=17,  
      ACTION_DELETE_OBJECT=16,  
      ACTION_LOCATE_OBJECT=8,  
      ACTION_COPY_DIR_FH=$406,  
      ACTION_EXAMINE_ALL_END=$40B,  
      ACTION_END=$3EF,  
      CMD_INTERNAL=-2,  
      ACTION_TIMER=30,  
      ACTION_DISK_CHANGE=$21,  
      RUN_SYSTEM_ASYNC=-3,  
      LDF_ALL=28,  
      ACTION_EXAMINE_ALL=$409,  
      ACTION_WRITE_RETURN=$3EA,  
      ACTION_READ_RETURN=$3E9,  
      ACTION_CHANGE_SIGNAL=$3E3,  
      REPORT_VOLUME=3,  
      DLT_VOLUME=2,  
      ACTION_CURRENT_VOLUME=7,  
      ST_ROOT=1,  
      DLT_DEVICE=0,  
      RNF_WILDSTAR=$1000000,
```

```
RNB_WILDSTAR=24,
ABORT_DISK_ERROR=$128,
ACTION_MORE_CACHE=18,
ACTION_SEEK=$3F0,
ACTION_FINDOUTPUT=$3EE,
PRF_CLOSEOUTPUT=16,
PRB_CLOSEOUTPUT=4,
DVPF_ASSIGN=2,
DVPB_ASSIGN=1,
ACTION_EXAMINE_FH=$40A,
ACTION_STARTUP=0,
REPORT_INSERT=4,
ACTION_SET_COMMENT=28,
PRF_FREESEGLIST=1,
PRB_FREESEGLIST=0,
ACTION_INFO=26,
ACTION_DISK_INFO=25,
LDF_DEVICES=4,
LDB_DEVICES=2,
ACTION_PARENT=29,
ABORT_BUSY=$120,
PRF_FREEARGS=$20,
PRB_FREEARGS=5,
ACTION_CHANGE_MODE=$404,
ACTION_SCREEN_MODE=$3E2,
LDF_VOLUMES=8,
LDB_VOLUMES=3,
ACTION_NIL=0,
ACTION_INHIBIT=31,
DLT_DIRECTORY=1,
LDF_ENTRY=$20,
LDB_ENTRY=5,
ACTION_SET_OWNER=$40C,
RUN_SYSTEM=-2,
CMD_SYSTEM=-1,
ACTION_IS_FILESYSTEM=$403,
LDF_DELETE=$40,
LDB_DELETE=6,
LDF_READ=1,
LDB_READ=0,
RNF_PRIVATE1=2,
RNB_PRIVATE1=1,
ACTION_READ=$52,
REPORT_STREAM=0,
ACTION_WRITE_PROTECT=$3FF,
ACTION_SET_PROTECT=21,
ACTION_SERIALIZE_DISK=$1068,
ACTION_RENAME_DISK=9,
ACTION_SET_MAP=4,
DLT_LATE=3,
ACTION_WAIT_CHAR=20,
ST_PIPEFILE=-5,
ST_LINKFILE=-4,
ST_FILE=-3,
LDF_ASSIGNS=16,
LDB_ASSIGNS=4,
ACTION_REMOVE_NOTIFY=$1002,
```

```
ACTION_ADD_NOTIFY=$1001,  
ACTION_DIE=5,  
ACTION_SET_FILE_SIZE=$3FE,  
ST_LINKDIR=4,  
ACTION_EXAMINE_NEXT=24,  
ST_SOFTLINK=3,  
ACTION_READ_LINK=$400,  
ACTION_MAKE_LINK=$3FD
```