

in

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REVISION HISTORY

NUMBER	DATE	DESCRIPTION	NAME

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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
```