

**in**

<b>COLLABORATORS</b>
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	TITLE :  in		
ACTION	NAME	DATE	SIGNATURE
WRITTEN BY		May 28, 2025	

<b>REVISION HISTORY</b>
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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 */
```

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```
(----) 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 */
```

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```
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,
```

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```
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
```