in

COLLABORATORS

	TITLE : in		
ACTION	*NAME*	*DATE*	*SIGNATURE*
WRITTEN BY		May 28, 2025	

REVISION HISTORY

NUMBER	DATE	DESCRIPTION	NAME

Contents

Chapter 1

in

1.1 ModuleInformation

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

(----) OBJECT qcode
(   0)   ctladr:CHAR
(   1)   track:CHAR
(   2)   index:CHAR
(   3)   zero:CHAR
(   4)   trackposition:lsnmsf (or ARRAY OF lsnmsf)
(   8)   diskposition:lsnmsf (or ARRAY OF lsnmsf)
(----) ENDOBJECT     /* SIZEOF=12 */

(----) OBJECT cdtoc
(   0)   summary:tocsummary (or ARRAY OF tocsummary)
(   0)   entry:tocentry (or ARRAY OF tocentry)
(----) ENDOBJECT     /* SIZEOF=6 */

(----) OBJECT tocentry
(   0)   ctladr:CHAR
(   1)   track:CHAR
(   2)   position:lsnmsf (or ARRAY OF lsnmsf)
(----) ENDOBJECT     /* SIZEOF=6 */

(----) OBJECT tocsummary
(   0)   firsttrack:CHAR
(   1)   lasttrack:CHAR
(   2)   leadout:lsnmsf (or ARRAY OF lsnmsf)
(----) ENDOBJECT     /* SIZEOF=6 */

(----) OBJECT cdxl
(   0)   node:mln (or ARRAY OF mln)
(   8)   buffer:PTR TO CHAR
(  12)   length:LONG
(  16)   actual:LONG
(  20)   intdata:LONG
(  24)   intcode:LONG
(----) ENDOBJECT     /* SIZEOF=28 */
```

```
(----) OBJECT lsnmsf
(   0)   lsn:LONG
(   0)   msf:rmsf (or ARRAY OF rmsf)
(----) ENDOBJECT     /* SIZEOF=4 */


(----) OBJECT rmsf
(   0)   reserved:CHAR
(   1)   minute:CHAR
(   2)   second:CHAR
(   3)   frame:CHAR
(----) ENDOBJECT     /* SIZEOF=4 */


(----) OBJECT cdinfo
(   0)   playspeed:INT
(   2)   readspeed:INT
(   4)   readxlspeed:INT
(   6)   sectorsize:INT
(   8)   xlecc:INT
(  10)   ejectreset:INT
(  12)   reserved1[4]:ARRAY OF INT
(  20)   maxspeed:INT
(  22)   audioprecision:INT
(  24)   status:INT
(  26)   reserved2[4]:ARRAY OF INT
(----) ENDOBJECT     /* SIZEOF=34 */

CONST CDERR_BADDATATYPE=$24,
      CDERR_BADDRIVETYPE=$21,
      CD_GETDRIVETYPE=18,
      CDERR_BADLENGTH=-4,
      CD_REMOVE=12,
      CDERR_SELFTEST=-7,
      CD_WRITE=3,
      CD_CHANGENUM=13,
      ADR_UPC=2,
      CD_FLUSH=8,
      CDMODE_NORMAL=0,
      CD_PLAYTRACK=$25,
      CD_START=7,
      CDERR_BADSECHDR=27,
      CDERR_NOSECHDR=21,
      CTL_COPY=$20,
      CD_PAUSE=$28,
      CD_FORMAT=11,
      CD_PROTSTATUS=15,
      ADR_HYBRID=5,
      CD_PLAYLSN=$27,
      CTL_DATA=$40,
      CDERR_NOMEM=31,
      CDSTSF_SPIN=4,
      CDSTSB_SPIN=2,
      CDERR_INVALIDSTATE=$25,
      CDERR_BADSECID=23,
      CD_CHANGESTATE=14,
      CD_UPDATE=4,
      CDERR_BADADDRESS=-5,
```

```
CDERR_OPENFAIL=-1,
TAGCD_READXLSPEED=3,
TAGCD_READSPEED=2,
TAGCD_PLAYSPEED=1,
CTLADR_ADRMASK=15,
CTL_COPYMASK=$20,
CTL_CTLMASK=$D0,
CTLADR_CTLMASK=$F0,
CTL_4AUD=$80,
CDSTSF_CDROM=16,
CDSTSB_CDROM=4,
CDERR_ABORTED=-2,
CD_STOP=6,
CDSTSF_PAUSED=$40,
CDSTSF_PLAYING=$20,
CDSTSB_PAUSED=6,
CDSTSB_PLAYING=5,
CD_EJECT=23,
CDMODE_FFWD=1,
CDSTSF_SEARCH=$80,
CDSTSB_SEARCH=7,
CD_SEARCH=$29,
CDERR_BADHDRSUM=24,
CD_PLAYMSF=$26,
ADR_POSITION=1,
CDSTSF_DIRECTION=$100,
CDSTSB_DIRECTION=8,
CD_CLEAR=5,
TAGCD_EJECTRESET=6,
CDERR_POSTRESET=$23,
CD_RESET=1,
CDERR_TOOFEWSECS=26,
CTL_2AUD=0,
TAGCD_XLECC=5,
CTL_4AUDEMPH=$90,
CTL_2AUDEMPH=16,
CDERR_SEEKERROR=30,
CD_QCODELSN=$2B,
CD_SEEK=10,
CD_GETNUMTRACKS=19,
CDSTSF_TOC=8,
CDSTSB_TOC=3,
CDERR_NOTSPECIFIED=20,
CDMODE_FREV=2,
CD_INFO=$20,
CD_GETGEOMETRY=22,
CD_ATTENUATE=$2C,
CDERR_WRITEPROT=28,
CDERR_UNITBUSY=-6,
CD_MOTOR=9,
CDERR_BADUNITNUM=$20,
CD_QCODEMSF=$2A,
CD_TOCLSN=$23,
CDERR_BADSECPREAMBLE=22,
CD_REMFRAMEINT=$2E,
CD_ADDFRAMEINT=$2D,
CD_REMCHANGEINT=21,
```

```
CD_ADDCHANGEINT=20,
CDERR_BADSECSUM=25,
CDERR_PHASE=$2A,
CD_READ=2,
CDERR_NOCMD=-3,
CDSTSF_CLOSED=1,
CDSTSB_CLOSED=0,
CDSTSF_DISK=2,
CDSTSB_DISK=1,
CDERR_NODISK=29,
CD_TOCMSF=$22,
CDERR_DRIVEINUSE=$22,
ADR_ISRC=3,
CD_READXL=$24,
TAGCD_SECTORSIZE=4,
CD_CONFIG=$21,
CDERR_NOBOARD=$32
```