

**TrackDisk**

COLLABORATORS

	TITLE : TrackDisk		
ACTION	NAME	DATE	SIGNATURE
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REVISION HISTORY

NUMBER	DATE	DESCRIPTION	NAME

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## Chapter 1

# TrackDisk

### 1.1 TrackDisk

#### Konstanten

addChangeInt	allowNon35	badDriveType
badHdrSum	badSecHdr	badSecId
badSecPreamble	badSecSum	badUnitNum
cdrom	changeNum	changeState
communication	directAccess	diskChanged
drive35	drive35rpm150	drive525
driveInUse	eject	extClear
extCom	extFormat	extMotor
extRawRead	extRawWrite	extRead
extSeek	extUpdate	extWrite
format	getDriveType	getGeometry
getNumTracks	index	indexSync
labelSize	lastComm	mediumChanger
motor	noMem	noSecHdr
notSpecified	numSecs	numUnits
opticalDisk	postReset	printer
processor	protStatus	rawRead
rawWrite	remChangeInt	remove
scanner	secShift	sector
seek	seekError	sequentialAccess
tooFewSecs	trackDiskName	unknown
word	wordSync	worm
writeProt		

#### Typ-Deklarationen

DgFlagSet	DgFlags	DriveGeometry
DriveGeometryPtr	IOExtTD	IOExtTDPtr
IOTrackDisk	IOTrackDiskPtr	PubFlagSet
PubFlags	TDUPublicUnit	

### 1.2 TMP:Modula-2/TrackDisk.def

---

```
DEFINITION MODULE TrackDisk; (*$Implementation:=FALSE*)
(* 16-May-1992/cn *)

FROM SYSTEM IMPORT BYTE, LONGSET, SHIFT;

FROM ExecD IMPORT
  clear, read, update, write, nonstd, IOFlagSet , IOStdReq , MemReqSet , Unit ;

CONST
  trackDiskName="trackdisk.device";

  motor=nonstd;
  seek=nonstd+1;
  format=nonstd+2;
  remove=nonstd+3;
  changeNum=nonstd+4;
  changeState=nonstd+5;
  protStatus=nonstd+6;
  rawRead=nonstd+7;
  rawWrite=nonstd+8;
  getDriveType=nonstd+9;
  getNumTracks=nonstd+10;
  addChangeInt=nonstd+11;
  remChangeInt=nonstd+12;
  (*36*) getGeometry=nonstd+13;
  (*36*) eject=nonstd+14;
  lastComm=nonstd+15;

  extCom=8000H;

  extWrite=write+extCom;
  extRead=read+extCom;
  extMotor=motor+extCom;
  extSeek=seek+extCom;
  extFormat=format+extCom;
  extUpdate=update+extCom;
  extClear=clear+extCom;
  extRawRead=rawRead+extCom;
  extRawWrite=rawWrite+extCom;

  numSecs=11;
  numUnits=4;

  sector=512;
  secShift=9;

  labelSize=16;

  indexSync=4;
  index= IOFlagSet {4};
  (*36*) wordSync=5;
  (*36*) word= IOFlagSet {5};

  allowNon35=LONGSET{0};

  drive35=1;
```

---

```
drive525=2;
(*36*)drive35rpm150=3;

notSpecified=20;
noSecHdr=21;
badSecPreamble=22;
badSecId=23;
badHdrSum=24;
badSecSum=25;
tooFewSecs=26;
badSecHdr=27;
writeProt=28;
diskChanged=29;
seekError=30;
noMem=31;
badUnitNum=32;
badDriveType=33;
driveInUse=34;
postReset=35;
```

TYPE

```
DgFlags =(removable,dg1,dg2,dg3,dg4,dg5,dg6,dg7);
DgFlagSet =SET OF DgFlags ;
```

```
DriveGeometry =RECORD
sectorSize:LONGCARD;
totalSectors:LONGCARD;
cylinders:LONGCARD;
cylSectors:LONGCARD;
heads:LONGCARD;
trackSectors:LONGCARD;
bufMemType: MemReqSet ;
deviceType:SHORTCARD;
flags: DgFlagSet ;
reserved:CARDINAL;
```

END;

```
DriveGeometryPtr =POINTER TO DriveGeometry ;
```

CONST

```
directAccess=0;
sequentialAccess=1;
printer=2;
processor=3;
worm=4;
cdrom=5;
scanner=6;
opticalDisk=7;
mediumChanger=8;
communication=9;
unknown=31;
```

TYPE

```
PubFlags =(noClick,pf1,pf2,pf3,pf4,pf5,pf6,pf7);
PubFlagSet =SET OF PubFlags ;
```

```
IOExtTD =RECORD
req: IOStdReq ;
```

---

```
count:LONGCARD;
secLabel:LONGCARD;
END;
IOExtTDPtr =POINTER TO IOExtTD ;

TDUPublicUnit =RECORD
unit: Unit ;
comp01Track:CARDINAL;
comp10Track:CARDINAL;
comp11Track:CARDINAL;
stepDelay:LONGCARD;
settleDelay:LONGCARD;
retryCnt:[0..255];
(*36*)pubFlags: PubFlagSet ;
(*36*)currTrk:CARDINAL;
(*36*)calibrateDelay:LONGCARD;
(*36*)counter:LONGCARD;
END;

(*
Synonyme zur einheitlichen Namesgebung
*)
IOTrackDisk = IOExtTD ;
IOTrackDiskPtr = IOExtTDPtr ;

END TrackDisk.noimp
```