

# Cpmtools

<http://www.moria.de/~michael/cpmtools/>

Format description

```

diskdef name                format definition
  seclen n                  128,256,512,1024,.. Sector length
  tracks n                  1.. Number of tracks
  sectrk n                  1.. Sectors per track
  blocksize n               1024,2048,4096,8192,16384 Block size
  maxdir n                  1.. Number of directory entries
  skew n                    0.. Logical sector skew
  skewtab r1,r2,r3,...     skew table
  boottrk n                 Number of system tracks
  offset n | nK | nM | nT   n Byte|n Kilobyte|n Megabyte|n Tracks
  logical extents           Logical extents per physical extent
  os 2.2 | 3 | isx | p2dos | zsys
  libdisk:format name      pcw720, cpcsys
end

```

Berechnungen:

```

size := (secLength*sectrk*(tracks-boottrk))/blksiz;
if (extents==0) extents := ((size>=256 ? 8 : 16)*blksiz)/16384; if
(extents==0) extents := 1;
AllocatableDataBlocks := size-(maxdir*32+blksiz-1)/blksiz);

```

posix:

```
physical pos := (sector+track*sectrk)*secLength)+offset;
```

libdisk:

```
physical sector := track*sectrk + sector + offset/secLength;
```

win32c:

```
SetFilePointer ((sector+track*sectrk)*secLength)+offset;
```

Viele Hinweise zu libsk, cpmtools, ... und zur Analyse unbekannter Disketten gibt's von Larry Kraemer auf <http://forums.debian.net/viewtopic.php?f=16&t=112244>

## Build

Erzeugen mit MINGW/MSYS

```
#-----
---
```

```
# libdisk
#-----
---

tar zxvf libdisk-1.3.3.tar.gz
cd libdisk-1.3.3
./configure
make
strip *.exe
make install
cd ..

#-----
---
# cpmtools
#-----
---

PDCurses installieren, d:\devtools\MinGW\include\curses.h heißt schon
richtig?

cd d:\devtools\MinGW\lib\
copy libpdcurses.a libcurses.a

#-----
---

tar zxvf cpmtools-2.13.tar.gz
cd cpmtools-2.13
./configure --with-diskdefs="" --with-defformat="default" --with-
libdisk=/local/
make
make -i install
strip /local/bin/*.exe

#-----
---

tar zxvf cpmtools-2.18.tar.gz
cd cpmtools-2.18

es gibt Compiler-Probleme mit den mitgelieferten getopt-Daten, deshalb
- in Makefile.in "getopt$(OBJEXT) getopt1$(OBJEXT) " überall löschen
- leere Datei getopt_.h anlegen (oder vorhandene leeren)

./configure --with-diskdefs="" --with-defformat="default" --with-
libdisk=/local/
make
strip *.exe
make -i install
```

# Changes

## Changes since 2.19:

- o Fixed bug in cpmfs leading to wrongly allocated blocks

## Changes since 2.18:

- o More diskdefs entries
- o New diskdefs option to set the libdisk format
- o Fixed various warnings
- o Fixed Makefile if building without curses

## Changes since 2.17:

- o Make timestamps in mkfs.com optional and add date stamper creation
- o Better cpm.5 documentation
- o Updated config.guess
- o Fixed error handling for corrupt images or diskdefs
- o Fixed off by one bug in fsck not detecting a wrong block number
- o Fixed too short directory buffer for directory sizes not matching whole blocks

## Changes since 2.16:

- o Improved filesystem documentation
- o Many new diskdefs
- o device\_win32.c fixed by Bill Buckels

## Changes since 2.15:

- \* Various small fixes
- \* Datestamper support
- \* Image offset to access disk slices

From:

<https://hc-ddr.hucki.net/wiki/> - **Homecomputer DDR**

Permanent link:

<https://hc-ddr.hucki.net/wiki/doku.php/cpm/cpmttools?rev=1421331090>

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