Cpmtools

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

Format description

```
diskdef name                format definition
  seclen n              128,256,512,1024,.. physical Sector length
  tracks n              1.. Number of tracks                = (Cylinders *
Sides)
  sectrk n              1.. Sectors per track
  blocksize n               1024,2048,4096,8192,16384 Block size =
(128*(BLM+1))
  maxdir n              1.. Number of directory entries     = (DRM+1)
  skew n                0.. Logical sector skew
  skewtab r1,r2,r3,...          skew table
  boottrk n             Number of system tracks             = OFS
  offset n | nK | nM | nT       n Byte|n Kilobyte|n Megabyte|n Tracks
  logicalextents            Logical extents per physical extent
  os 2.2 | 3 | isx | p2dos | zsys
  libdsk: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;
win32c:
SetFilePointer := ((sector+track*sectrk)*secLength)+offset;

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

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

```
#-------------------------------------------------------------------------
---
# libdsk
#-------------------------------------------------------------------------
---

tar zxvf libdsk-1.3.3.tar.gz
cd libdsk-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-
libdsk=/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-
libdsk=/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 libdsk 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
```

d:\user\pohlers\AltairSIMH>dskscan -formats Disk formats supported:

```
 pcw180     : PCW / IBM 180k
 cpcsys     : CPC System
 cpcdata    : CPC Data
 pcw720     : PCW / IBM 720k
 pcw1440    : PcW16 / IBM 1440k
 ibm160     : IBM 160k (CP/M-86 / DOSPLUS)
 ibm320     : IBM 320k (CP/M-86 / DOSPLUS)
 ibm360     : IBM 360k (CP/M-86 / DOSPLUS)
 ibm720     : IBM 720k (144FEAT)
```

```
ibm1200    : IBM 1.2M (144FEAT)
ibm1440    : IBM 1.4M (144FEAT)
acorn160   : Acorn 160k
acorn320   : Acorn 320k
acorn640   : Acorn 640k
acorn800   : Acorn 800k
acorn1600  : Acorn 1600k
pcw800     : PCW 800k
pcw200     : PCW 200k
bbc100     : BBC 100k
bbc200     : BBC 200k
mbee400    : Microbee 400k
mgt800     : MGT 800k
trdos640   : TR-DOS 640k
ampro200   : Ampro 40 track single-sided
ampro400d  : Ampro 40 track double-sided
ampro400s  : Ampro 80 track single-sided
ampro800   : Ampro 80 track double-sided
myz80      : MYZ80 8Mb
pcpm320    : IBM 320k (CP/M-86 / DOSPLUS)
```

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