NAME
pfdc – convert and modify PFDC floppy disk image files

SYNOPSIS
pfdc *[options] [input-file] [options] [output-file]*

DESCRIPTION
pfdc(1) is used to modify and convert PFDC floppy disk images files.

OPTIONS
-a, --alternate *alt1[-alt2]*
> Select a range of alternate sectors.

-c, --cylinder *cyl1[-cyl2]*
> Select a range of cylinders.

-e, --edit *what val*
> For all selected sectors, set sector attribute *what* to *val*. For boolean attributes, a value of 0 disables the attribute and any other value enables it. Recognized attributes are:

> **c** The cylinder number in the sector ID.

> **crc-id** The ID field contains a CRC error.

> **crc-data**
> > The data field contains a CRC error.

> **del-dam**
> > The sector has a deleted data address mark.

> **data** Initialize the sector data with *val*.

> **fm** The sector uses IBM single density FM encoding.

> **gcr** The sector uses Macintosh GCR encoding.

> **h** The head number in the sector ID.

> **mfm** The sector uses IBM double density MFM encoding.

> **mfm-hd**
> > The sector uses IBM high density MFM encoding.

> **mfm-ed**
> > The sector uses IBM extra high density MFM encoding.

> **no-dam**
> > The sector has a missing data address mark.

> **s** The sector number in the sector ID.

> **size** The sector size in bytes.

> **tags** If *val* is zero, remove sector tags, otherwise add sector tags.

-f, --info
> Print information about the current image or the next image loaded.

-F, --filler *val*
> Set the fill byte to *val*. The fill byte is used when sectors are created or enlarged.

-h, --head *head1[-head2]*
> Select a range of heads.

-i, --input *filename*
>   Load an image from *filename*.

-I, --input-format *format*
>   Set the input file format to *format*. Valid formats are:

>   **pfdc**   The native PFDC file format.

>   **ana**   The anadisk dump format.

>   **cp2**   The Copy II PC / Snatchit disk image format. Support for this format is experimental. This format is only available as an input format.

>   **dc42**   The Apple Disk Copy 4.2 file format.

>   **imd**   The ImageDisk file format.

>   **tc**   Transcopy dump format. Support for this format is highly experimental. This format is only available as an input format.

>   **td0**   The teledisk file format. Only files that don't use advanced compression are supported.

>   **raw**   A raw sector dump.

>   **xdf**   IBM XDF disk images.

-l, --list-tracks
>   List all tracks in the current image or in the next image loaded.

-L, --list-sectors
>   List all sectors in the current image or in the next image loaded.

-m, --merge *filename*
>   Load an image from *filename* and merge it with the current image. Sectors that are identical are discarded. Sectors that exist in only one image are retained. Sectors that exist in both images, but differ, are added as alternate sectors.

-n, --new-dos *size*
>   Create a new DOS image of size *size* KiB. Valid sizes are 160, 180, 200, 320, 360, 400, 640, 720, 800, 1200, 1440 and 2880.

-N, --new *type size*
>   Create a new image of type *type* and size *size*. Valid types are **dos** and **mac**. Valid sizes for mac images are 800 and 1600.

-o, --output *filename*
>   Set the output file name. Before exiting, the current image will be written to this file.

-O, --output-format *format*
>   Set the output file format to *format*. See the *-I* option for a list of valid formats.

-p, --operation *name [arg...]*
>   Perform an operation on the current image. Valid operations are:

>   **comment-add** *text*
>>   Add *text* to the image comment.

>   **comment-load** *filename*
>>   Load the image comment from file *filename*.

>   **comment-print**
>>   Print the current image comment.

>   **comment-save** *filename*
>>   Save the current image comment to *filename*.

comment-set *text*
> Set the image comment to *text*.

delete   Delete all selected sectors.

info   Print information about the current image (same as **-f**).

interleave *n*
> Set the sector interleave on all selected tracks to *n*.

load *filename*
> Load the contents of all selected sectors from *filename*. The contents of the sectors are read sequentially from the file.

new   Create all selected sectors, if they do not already exist.

reorder *s1,s2,s3,...*
> Reorder the sectors on all selected tracks. Sectors that are not mentioned in the parameter are moved to the end of the track.

rotate *first*
> Rotate the sectors on all selected tracks such that *first* is the first sector on the track. If *first* does not exist on a track, the next higher sector will be rotated to the start of the track.

save *filename*
> Save all selected sectors to *filename*. The contents of the sectors are written sequentially to the file.

sort   Sort the sectors on all selected tracks in ascending order.

sort-reverse
> Sort the sectors on all selected tracks in descending order.

tags-load *filename*
> Load the sector tags for all selected sectors from *filename*. For each sector 12 bytes are read, in the order in which the sectors appear on the track.

tags-save *filename*
> Save the sector tags for all selected sectors to *filename*. For each sector 12 bytes are written, in the order in which the sectors appear on the track.

-r, --record *cyl1[-cyl2] head1[-head2] sect1[-sect2]*
> Select sectors. This is the same as using the **-c**, **-h** and **-s** options seperately.

-s, --sector *sect1[-sect2]*
> Select a range of logical sectors.

-S, --real-sectors *sect1[-sect2]*
> Select a range of physical sectors.

-v, --verbose
> Enable verbose operation.

--help   Print usage information.

--version
> Print version information.

EXAMPLES

Convert an ImageDisk file to a PFDC file:

> $ pfdc source.imd dest.pfdc

Get image information:

     $ pfdc -f image.pfdc

   Add sectors 10 and 11 to all tracks on side 0:

     $ pfdc -i source.pfdc -r all 0 10-11 -p new -o dest.pfdc

   Mark the first sector in the image as having a bad data CRC:

     $ pfdc -i source.pfdc -r 0 0 1 -e crc-data 1 -o dest.pfdc

   Set the image comment:

     $ pfdc -i source.pfdc -p comment-set "Test image" -o dest.pfdc

SEE ALSO
   pce-ibmpc(1), **pce-macplus**(1), **pce-img**(1)

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