Floppy

COLLABORATORS

	TITLE :			
	Floppy			
ACTION	*NAME*	*DATE*	*SIGNATURE*	
WRITTEN BY		February 24, 2025		

REVISION HISTORY

NUMBER	DATE	DESCRIPTION	NAME

Contents

Chapter 1

Floppy

1.1   Contents

```
                Floppy.device 4.0
                ~~~~~~~~~~~~~~~~~
                evaluation version


   Floppy.device is a replacement for trackdisk.device.


                   Copyright
                   Requirements
                   Features
                   Installation
                   Hints And Tips
                   Registration
                   Programing Info
```

1.2   copyright

```
Copyright:
Floppy.device © 1994-1997 Orhan Dagistanli.
All rights reserved.

Warranty:
This software is provided "as-is" and subject to change
without notice; no warranties are made. All use is at your
own risk. No liability or responsibility is assumed.

Shareware:
Evaluation version may be freely redistributed but
comletely and unmodified. This archive may not be altered
in any way and cannot be used for commercial purposes
without the written permission of the author.
The license of the registered version is per user for
non-business home use, and per machine for companies.
```

1.3   requirements

```
Requirements:
Kickstart 3.0, M68020


Tested at these systems:
A1200
```

1.4   features

```
                    Features


Trackdisk compatible.
Faster than trackdisk (%27 for dd, %16 for hd).
Format capacity is 1148KB/2MB.
Root dir is at beginning of disk.
```

1.5   installation

```
                  Installation


Execute the install script from WorkBench.
If you not selected MultiFileSystem option, double click
the FS0 icon in the Sys:Storage/DosDrivers to mount
the drive or enter the command:

Mount FS0:



                MultiFileSystem Users


After reboot, you can enter the following commands
to format a disk from floppy.device:

(if disk is already formatted from floppy.device)
Format drive DF0: name x <quick> <noicons>

(safe method to any disk formatting from floppy.device)
Format drive DF0: name x <quick> <noicons> fs=DOS\5

From cli, you should not use
OFS/FFS/INTL/NOINTL/DIRCACHE/NODIRCACHE
options because MFS will convert the filesystem to DOS\0.

From WorkBench, you must select filesystem DOS\5 and
FFS/DIRCACHE options.
```

1.6   hints and tips

```
                            Hints And Tips

- Old track formats are not supported.

- 'Avail flush' command removes the device from memory
  if it is closed.

- Do not use hd disks in dd drive.
```

1.7   registration

```
                            Registration

 The price of registered version is US$20. Send the payment
 via your bank, then email the following lines:

    Name:
    Address:
    Email address:
    Amiga system (type, boards, etc.):

 The bank check must be made payable to:
 Name:    Orhan Dagistanli
 Address: Alpaslan sk. 2/4 Balcova Izmir TURKIYE

 After the transfer has arrived i will reply to you
 my ftp address and its password (via email). You will
 find the registered version on it. Also when i will
 releas a new version i will put it and inform to you.

 Email address:
 Bitnet:   prohst03@trearn (OR)
 Internet: prohst03@vm.ege.edu.tr (OR)
```

1.8   programing info

```
                          Programing Info

- AbortIO() function returns IOERR_NOCMD.
- ETD_XXX, TD_RAWREAD, TD_RAWWRITE commands are not supported.
- DiskChange interrupt works for all devices.
- A private FastFileSystem structure will be patched for
  removable flag and root dir sector (sector 2).
- A private trackdisk structure will be patched to using
  cylinder 80/81.
- TD_REMOVE command is supported but should not be used.
- You must call TD_GETGEOMETRY whenever disk inserted.
- Do not forget to update before TD_MOTOR-off command.
- TD_FORMAT command additionally updates & clears buffers.
  You must use CMD_READ after them for verifying.
```

- CMD_UPDATE and CMD_WRITE commands verify the written track.
- Sector checksum & track number will be checked in read op.
- No drive clicks.
- Retry count is one (for read/write/update operations).
- There are two track buffer (lower and upper sides of
  current cylinder).
- Normally track buffers are not affected by disk changes.
  But if density is changed (dd to hd or hd to dd) buffers
  will be cleared.
- FastFileSystem will call CMD_UPDATE and CMD_CLEAR commands
  whenever disk inserted or removed (if it is mounted).
  When removed and buffers were not updated disk-light will
  blink and buffers will be cleared.