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## Bochs x86 PC emulator (/p/bochs/)

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[Bochs-developers] Bochs documentation: loop device (fwd)

**[Bochs-developers] Bochs documentation: loop device (fwd) (/p/bochs/mailman/message/5498579/)**

From: Bryce Denney &lt;bryce@tl...&gt; - 2001-10-31 19:46:29

Here are some hints for linux users from Volker Ruppert.  
Eventually it will get into the official documentation. :)  
-Bryce

----- Forwarded message -----  
Date: Sat, 13 Oct 2001 21:43:02 +0200  
From: Volker Ruppert <Volker.Ruppert@...>  
To: Bryce Denney <bryce@...>  
Subject: Bochs documentation: loop device

Hello Bryce,

today I have made some tests with the loop device, because I want to exchange files with the bochs disk images. This part of the bochs documentation is still missing. This is what I found out:

1. In the bochs documentation appears the term "loopback". That's not O.K., because the loopback device is a network device. To prevent a mistake, it should be renamed.
2. Using Floppy images is easy, because there is no partition table:

```
losetup /dev/loop0 /usr/local/bochs/dlxlinux/floppya.img
```

Now you can use the image like a real floppy:

```
- format          : mkfs.minix /dev/loop0
- filesystem check : fsck.minix /dev/loop0
- mount           : mount /dev/loop0 -o loop /mnt/floppy
```

Before you want to restart bochs you must do this:

```
losetup -d /dev/loop0
```

Don't forget to umount before.

3. If you want access to a harddisk image, you have to calculate the size of the first cylinder. This value is the offset argument for losetup.

offset = bytes per sector \* sectors per cylinder

The command for dlxlinux image looks like this:

```
losetup /dev/loop0 /usr/local/bochs/dlxlinux/hd10meg.img -o 8704
```

For images created by bximage you must use the value 32256.

4. The harddisk image access doesn't work if the image contains more than one partition.
5. I have made this tests with linux and I don't know how this could be done with other operating systems.

--

Bye

Volker

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#### Thread view

**[Bochs-developers] Bochs documentation: loop device (fwd) (/p/bochs/mailman/message/5498544/)**

From: Bryce Denney <bryce@tl...> - 2001-10-14 00:26:25

Some hints on using disk images in linux with the loop device, from  
Volker Ruppert...

----- Forwarded message -----

Date: Sat, 13 Oct 2001 21:43:02 +0200

From: Volker Ruppert <Volker.Ruppert@...>  
To: Bryce Denney <bryce@...>  
Subject: Bochs documentation: loop device

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