
Subject: ploop and trim/ discard support

Posted by [Corin Langosch](#) on Wed, 12 Sep 2012 19:13:22 GMT

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Hi,

it seems that when creating & deleting files inside a ploop backed container the backing image file doesn't shrink. So the image file is still consuming around 400 GB, while in the container df shows only 100 GB in use.

```
ll on host: -rw----- 1 root root 384G Sep 12 21:06 root.hdd
df on container: /dev/ploop1      493G 103G 390G 21% /
```

I assume this is because ploop doesn't get informed by the ext4 fs when blocks are no longer in use. Should it help to to mount the ext4 on the ploop device with the "discard" option? I didn't test if it helps yet, but at least I was able to pass the mount option (thanks to kir's recent enhancements) and it started the container without any problems.

```
/dev/ploop1 on / type ext4 (rw,relatime,barrier=0,data=ordered,discard)
```

To free all "free" existing blocks I also tried to do a batch cleanup/trim from inside the container using "fstrim /" but it doesn't work:

```
root@test:~# fstrim /
fstrim: /: FITRIM ioctl failed: Operation not permitted
```

Should this be working or is it not supported yet? Am I on the right path at all? Any better solutions? :)

Corin
