

## FreeNAS - Bug #8503

### beadm + grub is slow

03/10/2015 02:18 PM - Sean Fagan

<b>Status:</b>	Resolved	
<b>Priority:</b>	Nice to have	
<b>Assignee:</b>	Kris Moore	
<b>Category:</b>	Middleware	
<b>Target version:</b>	Master - FreeNAS Nightlies	
<b>Seen in:</b>	9.3-RELEASE	<b>Needs Merging:</b> Yes
<b>Severity:</b>	New	<b>Needs Automation:</b> No
<b>Reason for Closing:</b>		<b>Support Suite Ticket:</b> n/a
<b>Reason for Blocked:</b>		<b>Hardware Configuration:</b>
<b>Needs QA:</b>	Yes	<b>ChangeLog Required:</b> No
<b>Needs Doc:</b>	Yes	
<b>Description</b>		
Near as I can tell, when you do anything with a boot environment, beadm goes through, mounts each BE, and then does its thing.		
This is a very annoying thing to do when you have 20+ BEs, <i>and</i> you are booted off a thumb drive. (Which even with USB3 is still <i>slow</i> .)		
Can this be improved?		

#### History

##### #1 - 03/10/2015 02:58 PM - Kris Moore

- Status changed from Unscreened to Screened

Yea, anytime you update beadm, it will need to re-gen GRUB config files for all the BE's. There are two ways to solve this:

1. Disable updating GRUB automatically from beadm in /usr/local/etc/beadm.conf (set GRUB=NO). Then after you do all your beadm commands, run "grub-mkconfig -o /boot/grub/grub.cfg" manually.
2. I could add an environment variable to skip updating GRUB, so you could set it before doing a lot of beadm options, then unset it before running the last command.

Either one of those ways would work. Additionally I'll take a look into the grub scripts themselves, see if anything can be sped up there. I think the mounting / unmounting of datasets is probably taking the longest.

##### #2 - 03/25/2015 09:26 AM - Kris Moore

- Status changed from Screened to Resolved

Ok, these two changes should speed up grub re-stamping.

This one has been sent to Xin, which disables the probing of other disks for dual-boot

<https://github.com/pcbbsd/freebsd-ports/commit/dea08a2966006cdcee12fa5f69f707b97a3d2d82>

This one went in yesterday, it removes the mount / copy of grub.cfg / modules to each BE in the boot-pool (saving lots of time here). You'll want to remove that from your relevant restamp-grub script also. This step isn't necessary anymore.

<https://github.com/pcbsd/pcbsd/commit/7d8e3dfb48321bb7a84e9e398373e3619ced31de>

**#3 - 03/25/2015 09:28 AM - Sean Fagan**

We only have the one boot, so we don't copy grub.cfg to each BE as it is.

Our big problem is that thumb drives are slow.

**#4 - 11/22/2017 11:33 AM - Dru Lavigne**

- *Target version set to Master - FreeNAS Nightlies*