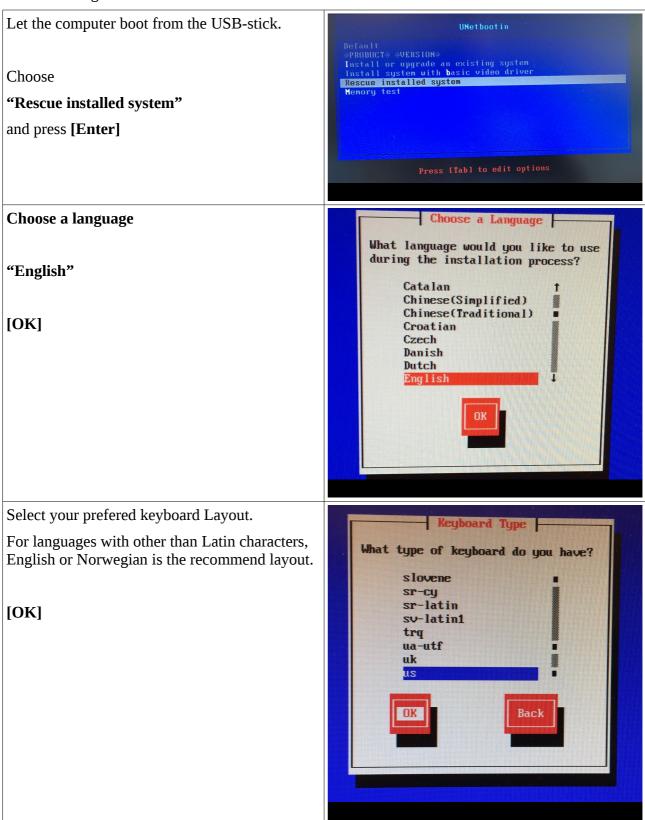
Badblocks – how to check a hard drive for bad sectors

This guide describes how to boot a computer in Linux rescue mode from a bootable USB-stick, and check the hard drive for bad sectors.

The welcoming menu, and how to select the installation image, might deviate depending on the type of media being used.



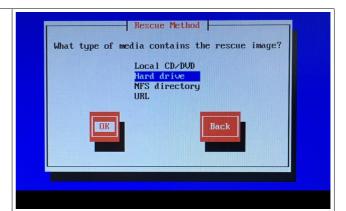


Select media where to find the rescue image.

If a bootable USB stick is used, choose:

"Hard Drive"

[OK]



Select partition on the rescue media.

On this screen image there are four devices named /devsda. Those presumably represent the partitions on the hard drive, and /dev/sdb1 the bootable USB-stick.

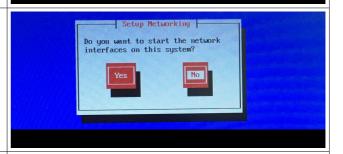
/dev/sdb1 should therefore be selected.



[OK]

Setup Networking

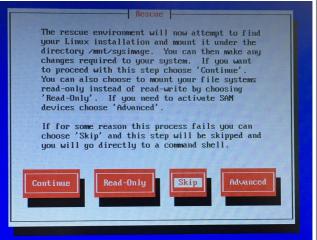
[No]



Rescue

[Skip]

[Next]



Shell Start shell

[OK]



A command prompt will appear. To check the names of the partitions preform the command: fdisk -l

Starting shell . . . bash-4.1# fdisk -l

A list of devices will appear.

The size of the devices indicates that the device /dev/sda is the computer hard drive and /dev/sdb is the USB-device.

In this case /dev/sda is the one to check.

Disk /dev/sda:500.1 GB...

Device Boot Start End ... /dev/sda1 1 25497... /dev/sda2 * 25497 25861... /dev/sda3 26077 26077...

Disk /dev/sdb: 16.0 GB . . .

Device Boot Start End ... /dev/sdb1 * 1 247662 ...

Run "badblocks -v" on /dev/sda to preform a quick reading test of the drive.

For more thorough testing, use the more time consuming read-write test "badblocks -s -n -v"

Any badblocks found will be listed on the screen. A hard drive with bad sectors should be replaced.

Type "exit" to leave the shell and reboot the computer (Remember to remove the USB-stick before reboot).

bash-4.1# badblocks -v /dev/sda

or

bash-4.1# badblocks -s -n -v /dev/sda