

knoppix xmodule=nv|radeon|savage|s3 - Use specified XFree4-Module (2)

knoppix xmodule=radeon|svga|i810 - Use specified XFree4-Module (3)

knoppix 2 - Runlevel 2, Textmode only

knoppix floppyconfig - Run "knoppix.sh" from a floppy

knoppix myconf=/dev/sda1 - Run "knoppix.sh" from a partition

knoppix myconf=scan (or config=scan) - Try to find "knoppix.sh" automatically

knoppix home=/mnt/sda1/knoppix.img - Mount loopback file as /home/knoppix

knoppix home=scan - Automatic search for knoppix homedir

knoppix no{apic,agp,apm,audio,ddc} - Skip parts of HW-detection (1)

knoppix no{dhcp,fstab,firewire} - Skip parts of HW-detection (2)

knoppix no{pcmcia,scsi,swap,udev} - Skip parts of HW-detection (3)

knoppix nousb - Skip parts of HW-detection (4)

knoppix nousb2 - Disable USB 2.x extension

knoppix noide RAID - Disable IDE-Raid disk detection

knoppix pnpbios=off - No PnP Bios initialization

knoppix acpi=off - Disable ACPI Bios completely

knoppix acpi=force - FORCE ACPI Bios initialization

failsafe - Boot with (almost) no HW-detection

knoppix pci=irqmask=0x0e98 - Try this, if PS/2 mouse doesn't work *)

knoppix pci=bios - Workaround for bad PCI controllers

knoppix ide2=0x180 nopcmcia - Boot from PCMCIA-CD-Rom (some notebooks)

knoppix mem=128M - Specify Memory size in MByte

knoppix dma - Enable DMA acceleration for ALL IDE-Drives

knoppix noeject - Do NOT eject CD after halt

knoppix noprompt - Do NOT prompt to remove the CD

knoppix vga=normal - No-framebuffer mode, but X

knoppix blind - Start Braille-Terminal (no X)

knoppix brlty=type,port,table - Parameters for Braille device

knoppix wheelmouse - Enable IMPS/2 protocol for wheelmice

knoppix nowheelmouse - Force plain PS/2 protocol

for PS/2-mouse

fb1280x1024 - Use fixed framebuffer graphics (1)

fb1024x768 - Use fixed framebuffer graphics (2)

fb800x600 - Use fixed framebuffer graphics (3)

knoppix keyboard=us xkeyboard=us - Use different keyboard (text/X)

knoppix splash - Boot with fancy background splash screen + animations + progress bar **)

knoppix toram - Copy CD to RAM and run from there

knoppix tohd=/dev/hda1 - Copy CD to HD partition and run from there

knoppix fromhd - Skip checking for Knoppix on CD-ROM

knoppix fromhd=/dev/hda1 - Boot from previously copied CD-Image

knoppix bootfrom=/dev/hda1 - Access Image then boot from previously copied CD-Image (enables booting from NTFS / ReiserFS) ***)

knoppix bootfrom=/dev/hda1/KNX.iso - Access image, boot from ISO-Image. ***)

knoppix knoppix_dir=KNOPPIX - Directory to search for on the CD.

knoppix knoppix_name=KNOPPIX - Cloop-File to search for on the CD.

knoppix tested - Check CD data integrity and md5sums

expert - Interactive setup for experts

debug - Debug boot process

Hint: Using the default DE-bootimage, SYSLINUX boots with German keyboard layout. The '=' letter is located at Shift-0 on this keyboard (just in case you want to change keyboard and language with lang=us).

*) Try "knoppix pci=irqmask=0x0e98" if (you have a notebook and) your PS/2 mouse doesn't work. (Possibly caused by a BIOS-flaw on your board, BIOS updates can help.) Sometimes, switching to the text console with Control-Alt-F1 and back to the X-screen with Control-F5 solves the problem without rebooting, since the X server reinitializes the mouse driver during that procedure.

**) You can also have your own splash-screen in putting an executable shell-script to /cdrom/KNOPPIX/splash.sh. For an example how to do this see: /usr/bin/splash-knoppix.sh. (Feature added by Fabian Franz.)

***) bootfrom needs access to a running Knoppix-System with the same Kernel as the Bootkernel, before it is able to mount the partition / ISO-Image. This should allow a poor mans install from NTFS-Partitions and makes it also possible to boot an ISO-Image directly. You can also use wildcards in the ISO-Filename, but it must be unique. So: If you have just one KNOPPIX.iso on /dev/hda1 you can access it as: bootfrom=/dev/hda1/K*.iso, but if there are several, you need to make clear, which one you want. (Feature added by Fabian Franz.)

If your KNOPPIX CD makes strange noises during boot, or you see frequent errors like "cloop: read error", or programs on your KDE desktop keep crashing randomly, then your CD image is probably defective or incomplete, or your CD-burner created a defective CD due to wrong writing speed or bad media. This is the most common error reported. Please boot with "knoppix tested" to check if the CD is OK, and/or even better, verify the MD5 checksums that are present on the mirrors before writing the CD. In some cases, defective IDE controllers cause this error if you have DMA enabled. Also, please read the KNOPPIX-FAQ.

In case of a failing hardware autodetection, try booting with any of the "no-" options as shown in the table above, like in :

```
knoppix noagp noaudio noapm noapic acpi=off
nodma nopcmcia noscsi nousb
```

to skip some critical parts of the autodetection system.

The "noswap" option is useful for a forensic analysis without touching existing swap partitions.

Some Boards apparently don't pass the proper memory size to the Linux-kernel. It may cause the message "Panic: cannot mount root file system" and the system hangs. Use "knoppix mem=128M" to solve that problem if your system has 128MByte memory for example (caution: you MUST use a capital "M" here).

The "expert" mode provides a very simple interface to loading additional Kernel modules from floppy disks (ext2 or vfat), plus interactive configuration of mouse/keyboard/soundcard/xserver. "expert" mode supports the same boot options as "knoppix".

The "floppyconfig" or

"(my)config=/dev/partition" options allow you to reconfigure the system after auto-configuration by running a Bourne shell script called "knoppix.sh" from the root directory on the given device (or floppy). There is a GUI to create such a configuration floppy disk called "saveconfig" (also located in the KDE menu under "KNOPPIX", but experts also know how to do this by creating their own shell scripts. From Version 2.1 and up, a file called "knoppix.sh", if located in the toplevel KNOPPIX directory on CD, will also be executed at startup. This makes it easier to create customized versions without having to change anything on the compressed filesystem KNOPPIX/KNOPPIX.

SCSI-Emulation is active for all CD-ROMs (unless you switch it off by using the "atapi cd" option), so IDE CD-Writers should work with the installed versions of cdrecord and cdrdao (or the graphical front ends thereof, k3b for example).

If your BIOS does not support "no emulation boot" from CD, you can create two bootable floppy disks by issuing (from Knoppix running on a different machine) the command "mkbootfloppy", which will create a bootable Kernel-disk plus a disk containing the initial ramdisk, which will be prompted for at boot time.

If you wish to re-master the CD, please don't forget to specify

```
-no-emul-boot -boot-load-size 4 -boot-info-table \  
-b boot/isolinux/isolinux.bin -c  
boot/isolinux/boot.cat
```

as option to mkisofs. Otherwise your CD won't be bootable. The directory KNOPPIX, containing the compressed filesystem file "KNOPPIX", must be located in the top level directory of the CD.

Caution: X-Screensaver: Don't start xlock or any screensaver that requires a password. There are no default passwords on KNOPPIX, i.e. all accounts are LOCKED unless you explicitly set a password. See also README_Security.txt about this issue.

If you accidentally hit the screensaver button in KDE, switch to one of the text consoles by Control-Alt-F1 and kill the screensaver (or just set a password for the knoppix user).

If you would like to edit your X-Server configuration manually (/etc/X11/XF86Config-4 for XFree86 V4.x), use "knoppix 2" to boot into runlevel 2 (textmode only) and, after changing the X configuration, start the X environment with "init 5". Note that you can always leave the graphical environment with "init 2", and restart it later with "init 5".

(Source: <http://gd.tuwien.ac.at/opsys/linux/knoppix/knoppix-cheatcodes.txt>)

About TTLUG

The Trinidad and Tobago Linux Users Group (TTLUG) is a small group of computer enthusiasts who share a love for Linux.

TTLUG Aims

- *Advocate* the use of Linux and Free and Open Source Software (FOSS) in government, large and small businesses, non- governmental organizations, education and end users
- *Educate* the broader community about Linux and FLOSS
- *Support* new users as they learn to use Linux
- *Provide* a forum where local Linux users can meet and interact

To learn more about TTLUG, see our web site at <http://www.ttlug.org>

TTLUG has a discussion group on Yahoo, where members can discuss Linux, FOSS, general computing issues and troubleshoot member problems. It is located at <http://groups.yahoo.com/group/ttlug>

To subscribe to the TTLUG Yahoo! Group, send an email to TTLUG-subscribe@yahoo.com



CHEATCODES AND HINTS FOR KNOPPIX V5.0.1

These options (can be combined) work from the ISOLINUX boot prompt:

```
knoppix lang=ch|cn|de|da|es|fr|it - Specify  
language/keyboard  
knoppix lang=nl|pl|ru|sk|tr|tw|us - Specify  
language/keyboard  
knoppix gmt - Use GMT-based time  
knoppix tz=Europe/Berlin - Use this timezone for  
TZ  
knoppix desktop=fluxbox|gnome|icewm - Use  
specified WM instead of KDE (1)  
knoppix desktop=kde|lg3d|larswm - Use specified  
WM instead of KDE (2)  
knoppix desktop=openbox|twm - Use specified WM  
instead of KDE (3)  
knoppix desktop=wmaker|xfce|xfce4 - Use  
specified WM instead of KDE (4)  
knoppix screen=1280x1024 - Use specified Screen  
resolution for X  
knoppix xvrefresh=60 (or vsync=60) - Use 60 Hz  
vertical refresh rate for X  
knoppix xhrefresh=80 (or hsync=80) - Use 80  
kHz horizontal refresh rate for X  
knoppix xserver=XFree86|XF86_SVGA - Use  
specified X-Server  
knoppix xmodule=ati|fbdev|i810|mga - Use  
specified XFree4-Module (1)
```