

# HOWTO install SchilliX on hard disk for developing

Written 2005 by T. Kirschstein

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1. The disk has to be partitioned using the `fdisk' command.

```
# fdisk /dev/rdisk/<device>
```

e.g. `fdisk /dev/rdisk/c0d0p0`

Create a "Solaris" partition with a minimum size of 1 GB, recommended is at least 5 GB

Make the Solaris partition "active"

2. After the disk is partitioned one partition has to be labeled.

```
# format /dev/rdisk/<device>
```

e.g. `format /dev/rdisk/c0d0p0`

Enter the partition menu by typing "par" and create a root partition with at least 1 GB (recommended is 10 GB) by typing "0" and answering questions

create a swap partition with the recommended size of 2 GB by typing "1" and answering questions

create a home partition with the desired size by typing "6" and answering the questions.

Check the partition table by typing "print"

Write the partition table back by typing "label"

quit format.

3. Put a filesystem on the label where we want to install later on

```
# newfs /dev/rdisk/<device>
```

Type e.g:

```
newfs /dev/rdisk/c0d0s0  
newfs /dev/rdisk/c0d0s6
```

4. Mount the newly formatted label.

```
# mount /dev/dsk/<device> /some/where
```

Type e.g. `mount /dev/dsk/c0d0s0 /mnt`

5. Copy the files tree from CD to the mounted disk with `star`.

```
star -copy -p -sparse -no-fsync -time -xdot bs=1m fs=32m -C /.cdrom/ . /mnt
```

6. Look where the mounted devices in /dev points to in /devices and edit the `/boot/solaris/bootconf.rc` to set `rootpath=<device>`. (<device> is the device in the /devices filesystem without the `/devices/` string at the beginning.)

Type e.g. `ls -l /dev/dsk/c0d0s0` and check the symlink target  
See also the file `/boot/solaris/bootconf.rc.sample`

7. Edit the grub loader config "/boot/grub/menu.lst" to fit your needs and to make the new system bootable from hard disk.

See also the file `/boot/solaris/menu.lst.sample`

8. Install grub into the master boot record (using the `-m` option) or any other boot record of an existing partition, but remember to set this partition as bootable.

```
# installgrub [-m]
```

Type e.g.:

```
cd /boot/grub/  
installgrub -m stage1 stage2 /dev/rdisk/c0d0s0
```

9. Generate an initial ramdisk for grub which is needed to boot where <mount-point> is the mounted hard disk label of the new system.

```
# bootadm update-archive -R <mount-point>
```

Type e.g.:

```
bootadm update-archive -R /mnt
```

10. Generate an initial /dev/ population using devfsadm.

Type e.g.:

```
devfsadm -r /mnt
```

11. Edit `/etc/vfstab` to reflect the hard disk after reboot.

See also the file `/etc/vfstab.sample`

12. Reboot the system and enjoy Schillix running from hard disk.