

Quartus for Debian Wheezy

From Altera Wiki

Installation of Quartus on Debian Wheezy amd64 (Testing) from 13.12.2011

1. Install used library's and tools

```
aptitude install ia32-libs ia32-libs-gtk libxerces-c28 zsh
```

2. Extract Quartus

```
./11.1sp1_216_quartus_free_linux.sh --noexec
```

3. Edit setup file

Edit first line of `./11.1sp1_216_quartus_free_linux/setup.sh`

```
#!/bin/zsh
```

4. Add missing locales

```
dpkg-reconfigure locales -> Select all en_US
```

5. Setup Quartus

```
cd ./11.1sp1_216_quartus_free_linux/  
./setup.sh
```

6. Stupid hack because altera forgot some libraries...

```
cd altera/11.1sp1/quartus/  
cp /usr/lib/libxerces-c.so.28.0 linux64/libaxerces-c.so.26  
cp /usr/lib/libxerces-c.so.28.0 linux64/libaxerces-c.so  
cp /usr/lib/libicudata.so.48 linux64/libicudata.so.34  
cp /usr/lib/libicuuc.so.48.1.1 linux64/libicuuc.so.34
```

7. Add group blaster and add user to group

```
addgroup blaster  
adduser username blaster
```

8. Setup udev for USB-Blaster

-> http://www.altera.com/download/drivers/dri-usb_b-lnx.html (Changed for use of group / new udev)

Add the following lines to the `/etc/udev/rules.d/51-usbblaster.rules` file:

```
-----
# USB-Blaster
SUBSYSTEM=="usb", ATTR{idVendor}=="09fb", ATTR{idProduct}=="6001", GROUP="blaster"
SUBSYSTEM=="usb", ATTR{idVendor}=="09fb", ATTR{idProduct}=="6002", GROUP="blaster"
SUBSYSTEM=="usb", ATTR{idVendor}=="09fb", ATTR{idProduct}=="6003", GROUP="blaster"

# USB-Blaster II
SUBSYSTEM=="usb", ATTR{idVendor}=="09fb", ATTR{idProduct}=="6010", GROUP="blaster"
SUBSYSTEM=="usb", ATTR{idVendor}=="09fb", ATTR{idProduct}=="6810", GROUP="blaster"

# BeMicro
SUBSYSTEM=="usb", ATTR{idVendor}=="0403", ATTR{idProduct}=="a4a0", GROUP="blaster"
-----
```

9. (Optional) BeMicro Driver

Download driver from: <http://www.arroweurope.com/markets-solutions/solutions/bemicro/bemicro.html> -> Download Reference Design

Direct link: <http://www.arroweurope.com/contact-us/bemicro-reg-thank-you.html>

Extract the Archive and copy the driver:

```
-----
cp driver/linux-x86_64/libjtag_hw_arrow.so altera/11.1sp1/quartus/linux64/
-----
```

10. Paths

Add the following lines to your `~/.profile`:

```
-----
export QUARTUS_ROOTDIR="$HOME/altera/11.1sp1/quartus"
export QUARTUS_ROOTDIR_OVERRIDE="$QUARTUS_ROOTDIR"
export PATH=$PATH:"$HOME/altera/11.1sp1/quartus/bin"
export PATH=$PATH:"$HOME/altera/11.1sp1/nios2eds/bin"
export PATH=$PATH:"$HOME/altera/11.1sp1/modelsim_ase/bin"
-----
```

Now you should log out and log in again. Then you can call all commands from a terminal. It is also possible to add the programs to the menu of Gnome. `quartus` and `eclipse-nios2` works but `vsim` has to be called this way:

```
-----
xterm -e vsim
-----
```

11. GTK_PATH

If you get errors like:

```
-----
Gtk-Message: Failed to load module "canberra-gtk-module": /usr/lib/gtk-2.0/modules/libcanberra-gtk-mo
-----
```

GTK_PATH has to be set for the 32-Bit librarys. But this doesn't work global in .profile because then 64-Bit programs have problems. So the best way is to create startup scripts for quartus and eclipse-nios2 in ~/bin/:

```
#!/bin/sh
export GTK_PATH=/usr/lib32/gtk-2.0
~/altera/11.1sp1/quartus/bin/quartus
```

```
#!/bin/sh
export GTK_PATH=/usr/lib32/gtk-2.0
~/altera/11.1sp1/nios2eds/bin/eclipse-nios2
```

12. Fix for sof2flash, elf2flash, elf2hex, bin2flash

These scripts are not compatible with dash, so modify the first line from #!/bin/sh to #!/bin/bash in the folowing files:

```
sof2flash elf2flash elf2hex bin2flash sh_jar.sh
```

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