INDINF10 – DEBUGGING WITH ECLIPSE

Microcontroller

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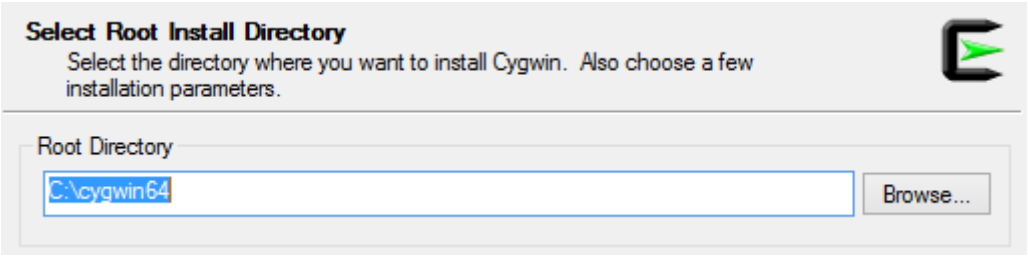
X-Server

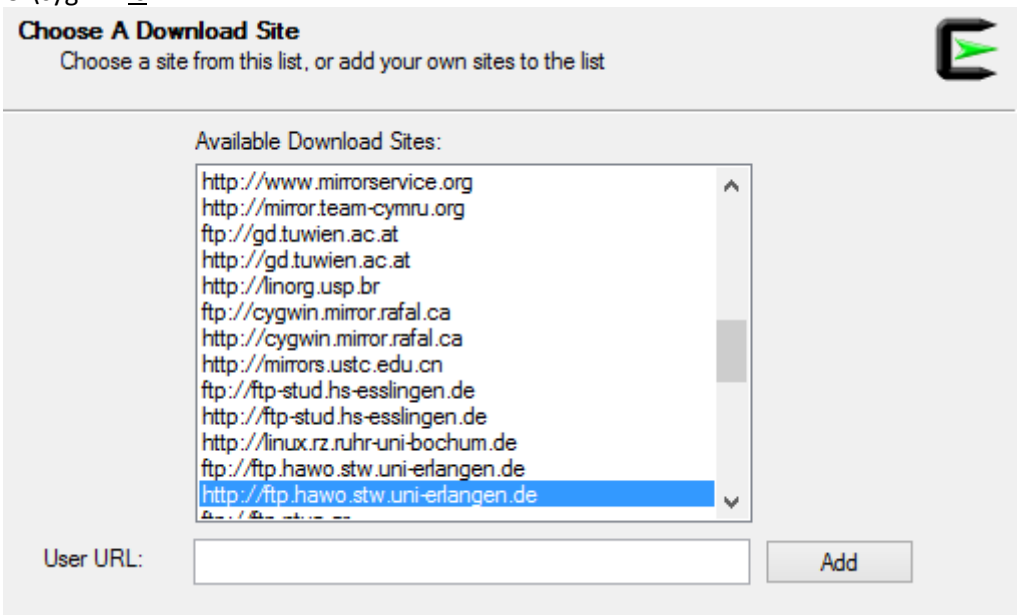
Cygwin

Installation

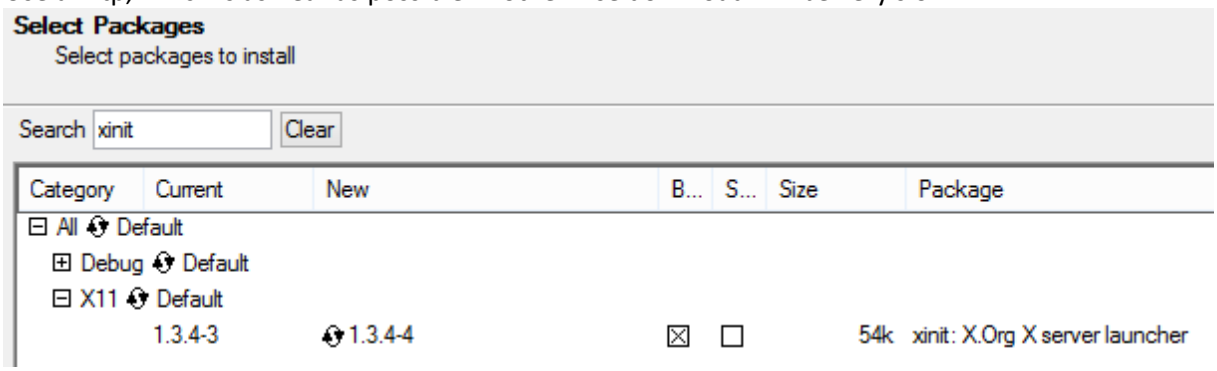
http://x.cygwin.com/



Root directory should be without spaces, e.g. C:\Program Files is NOT valid on the other side C:\cygwin is.



Use an ftp, which is as near as possible -> otherwise download will be very slow



Install *xinit*

Configuration

Enable X11 forwarding on the remote machine

```
~
"/etc/ssh/ssh_config" 54L, 1691C
```

Edit the *ssh_config* file in the root directory of your ssh-provider, and enable x11-forwarding e.g.

```
Host *
#   ForwardAgent no
    ForwardX11 yes
#   ForwardX11Trusted yes
```

See this thread http://superuser.com/questions/310197/how-do-i-fix-a-cannot-open-display-error-when-opening-an-x-program-after-sshi

Usage

Open the Cygwin terminal, which is usually in *Cygwin/bin/mintty*

```
C:\cygwin64\bin>mintty.exe -
```

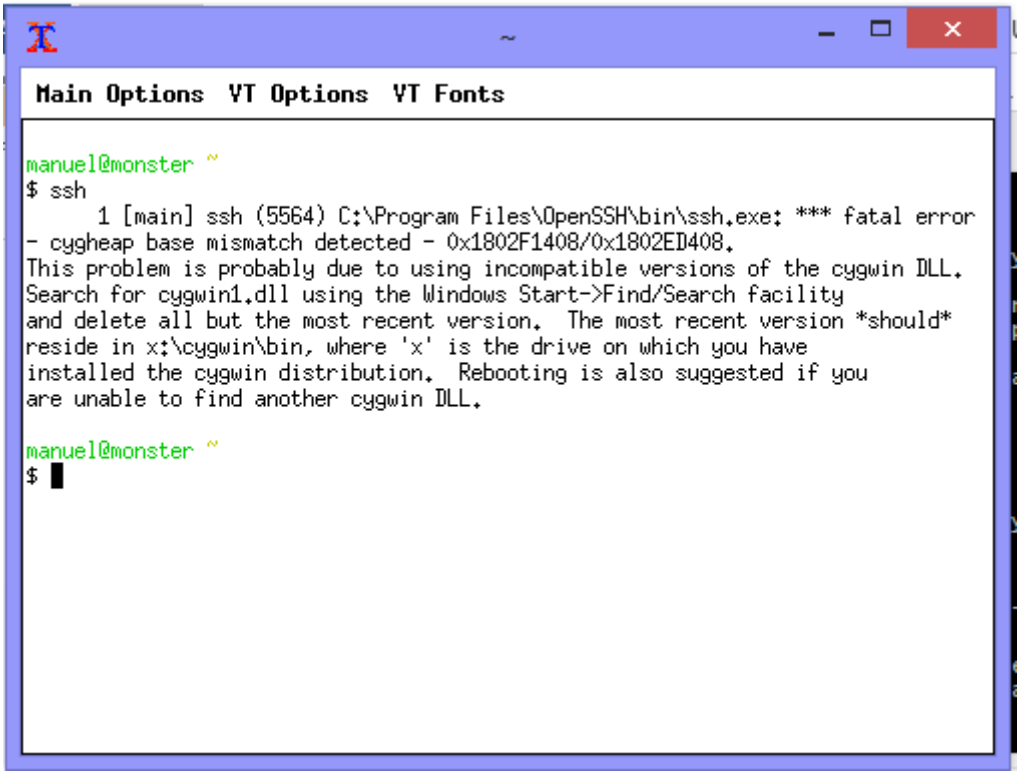
Open it with the – argument as you can see above.
A terminal will open up and you may type in *startxwin*.
Another terminal will open up and you can now start your ssh-connection e.g. as follows.

- ssh –Y username@hostname

You can now start any GUI Application you want and it will be printed on your X-Server.

Troubleshooting

Ssh fatal error



ATTENTION, backup your *ssh/bin/cygwin1.dll* before continuing.

Copy the *cygwin1.dll* from the bin directory of your Cygwin root directory (*Cygwin/bin*), to your ssh bin directory (*ssh/bin*).

Untrusted X11 forwarding

```
$ ssh -X schueler@school
schueler@school's password:
Warning: untrusted X11 forwarding setup failed: xauth key data not generated
Warning: No xauth data; using fake authentication data for X11 forwarding.
Linux sqldb 3.2.0-4-amd64 #1 SMP Debian 3.2.65-1 x86_64
```

Use *–Y* instead of *–X*, because –Y uses trusted X11 forwarding, see this Thread
http://serverfault.com/questions/273847/what-does-warning-untrusted-x11-forwarding-setup-failed-xauth-key-data-not-ge