EE434 ASIC & Digital Systems

How to setup work environment

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How to Connect to EECS Servers (Linux)

- If you are connecting from Linux, you can open a terminal and type the following command:
 - > ssh –X username@ee434-466.eecs.wsu.edu
 - "username" is your EECS account name.
- You should be able to use GUI. Try the following.
 - > bash
 - > source /net/ictools/sh/synopsys.sh
 - > /net/ictools/synopsys12/F-2011.09_custExplorer/bin/wv
 - If you see a WaveView window, you are ready to use GUI.
 - If you see error messages, contact me.

How to Connect to EECS Servers (Windows)

- You need an SSH client software such as
 - PuTTY, SecureCRT, XShell, etc.
 - I use PuTTY.
- No matter which software you use, there should be an option related to X11 forwarding. For example, PuTTY has the following menu:

🔀 PuTTY Configuration	×	🔀 PuTTY Configuration	×
Category: Category:	Basic options for your PuTTY session Specify the destination you want to connect to Host Name (or IP address) Port Lee434-466.eccs wsu.edu 22 Connection type: Riogin © SSH © Segial Load, save or delete a stored session Savge Default Settings Load ssh3 Savge Delete Delete	Category:	Options controlling SSH X11 forwarding X11 forwarding Y Enable X11 forwarding X display location Remote X11 authentication protocol MIT-Magic-Cookie-1 X authority file for local display Browse
About	<u>Open</u> <u>Cancel</u>	About	<u>O</u> pen <u>C</u> ancel

How to Connect to EECS Servers (Windows)

- Turn the X11 forwarding.
- You can save the session using the "Saved Session".
- Windows users also need an X Window client such as
 Xming
- Download, install, and run it. It won't show anything.
- Connect to ee434-466.eecs.wsu.edu.
- Run the following to check whether your X Window works well.
 - > bash
 - > source /net/ictools/sh/synopsys.sh
 - > /net/ictools/synopsys12/F-2011.09_custExplorer/bin/wv
 - If you see a WaveView window, you are ready to use GUI.

How to Connect to EECS Servers (Mac)

- Mac has a built-in SSH client "terminal" or OpenSSH.
- You can also use NoMachine.
 - Run NoMachine and make a new session. Remember that you should use not "NX" but "SSH" for the protocol.
- Connect to ee434-466.eecs.wsu.edu.
- It may ask what environment you want to use. You can choose GNOME or KDE.
- Run the following to check whether your X Window works well.
 - > bash
 - > source /net/ictools/sh/synopsys.sh
 - > /net/ictools/synopsys12/F-2011.09_custExplorer/bin/wv
 - If you see a WaveView window, you are ready to use GUI.

Setup Your Shell

- After you log in, type the following command:
 - > echo \$SHELL
- If it is bash (e.g., /bin/bash or /bin/usr/bash), you are ok. You can skip this page.
- If it is not bash, you should run bash as follows:
 - > bash
- Note that you should run bash whenever you connect to an EECS server.

Linux How-To

- Create a directory (It's like the folder in Windows).
 - mkdir directory_name
- Go to the directory.
 - cd directory_name
- Delete a directory.
 - rmdir directory_name
- Delete a directory and the whole files in it.
 - rm –rf directory_name
- Delete a file
 - rm file_name
- Download a file
 - wget address_file_name

Linux How-To

- For example, create the following directories to create a good hierarchy.
 - > mkdir ee434
 - > cd ee434
 - > mkdir hw01
 - > cd hw01 // now you are under your_home/ee434/hw01
 - > wget ...
- For HW2, you can create another directory and work in it.
 - $> cd \sim // go to your home directory$
 - > cd ee434 // now you are under your_home/ee434
 - > mkdir hw02
 - > cd hw02

Linux How-To

- Text editor
 - To edit a text file, you can use a text-based editor or a GUIbased editor.
 - Text-based editor: vi
 - GUI-based editor: gedit
 - Run the editor to edit a file named "b.txt".
 - > vi b.txt
 - > gedit b.txt
 - If you are not familiar with vi, you can just use a GUI-based editor.

Troubleshooting

- If you see the following errors when you run "source ###.sh"
 - Variable name must contain alphanumeric characters.
 - LM_LICENSE_FILE: Undefined variable.
 - Then, check your shell (> echo \$SHELL) and make sure you are using bash.