X11 Forwarding on Windows with Cygwin

- 1. Download Cygwin installer from <u>cygwin.com/install.html</u>. Obtain suitable version for your Windows (32bit or 64bit)
- 2. Install Cygwin using the installer downloaded in Step 1, and follow the instructions below: a) Click "Next" on initial window.
 - b) Next window, choose "Install from Internet", then click "Next".
 - c) Next window, you can select the location where you want to install Cygwin. Click "Next" to install in default location
 - d) Next window, you can select a location where you want to sore the installation files. Click "Next" to install in default location.
 - e) Next window, select the Internet Connection type, and click "Next".
 - f) Next window, select a download site from Available Download site list, and click "Next".
 - g) Next window, select following package as show below and click "Next".

(Note: Make sur	e you change	" Default " to	("Install")
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openssh		xorg-server			
View Category ~ Search openssh	Clear	View Category V Search xorg-server Clear			
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1.3.4-14	🖂 🗌 54k xinit				

Note: 75 is only required for CSE202 graphical programs using CCC library.

h) Next window, make sure to check "Select require packages", and click "Next".

Select required packages (RECOMMENDED)

- i) Next window, it is recommended to add icons to Start Menu for access.
- 3. Start "XWin Server" from the Start menu \rightarrow Cygwin-X \rightarrow XWin Server.



4. Once "XWin Server" starts, you will see icon at notification area. Right-click on the icon and select "System Tools" \rightarrow "Cygwin Terminal"



5. Type in the ssh command as shown below, then type in your Linux lab password when asked.

ssh -Y Yo	urCoyoteID	@cseX11.cse.csusb.edu
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► ~	_	×
howard@DESKTOP 62LETTG ~ Your Coyote ID # Here \$ ssh -Y username@cseX11.cse.csusb.edu		\sim
username@csex11.cse.csusb.edu's password:Linux Lab Password		

6. you can run graphical applications by running the commands in the terminal.

- gedit
- CSE 202 graphical program
- matlab
- etc



Additional Extra Tip

If you are experiencing slow response on graphical application, try swapping the ssh command in Step 5 with the one below:

ssh -YC -c blowfish YourCoyoteID@cseX11.cse.csusb.edu