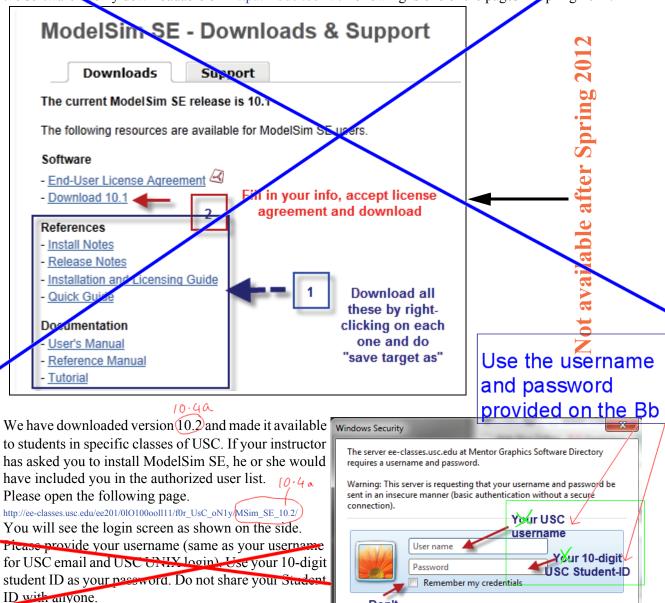
Cancel

ModelSim SE Installation on Windows machines by USC students (confidential)

1 ModelSim SE is not a FREE version. Hence this is open to USC members only with USC login privileges.

Prior to Summer 2012, we were asking students to download Modelsim SE as if they were going to evaluate this tool. But, instead of seeking evaluation license, they point to the USC license server running on USC unix system. In Summer 2012, Modelsim stopped providing Modelsim SE evaluation licenses and stopped making the software openly downloadable on http://model.com/. Following is one of the pages in Spring 2012.



Download

1.2

- (1) INSTALL NOTES.txt,
- (2) modelsim se install.pdf and either
- (3.1) modelsim-win32-10.2-se.exe
- 10.4a (3.2) modelsim-win64-10.2-se.exe

depending on whether you are running windows 32-bit or windows 64-bit OS. The two .exe files are each about 430 MB and it does take a lot of time if you do not have a high-speed internet.

Don't

check this

March 15, 2013 11:46 pm 1/7 (C) Copyright 2013 Gandhi Puvvada As advised in the INSTALL_NOTES.txt, first remove any previous versions of ModelSim before proceeding with installing this new version.

Go to

control panel => Uninstall or Change a Program => Mentor Graphics Products
or/and
control panel => Uninstall or Change a Program => ModelSim PE Student Edition

1.4 Windows XP, Windows 7 win-32/win64, Solaris and floating licenses

I am writing this document while installing Modelsim SE on my PC running windows 7 64-bit system. If you are installing on Windows XP or on SUN OS, please follow appropriate sections of instructions in INSTALL_NOTES.txt and modelsim_se_install.pdf. We have floating licenses already installed on licence.usc.edu and we can get the license by pointing the LM_LICENSE_FILE variable to 1800@license.usc.edu .

1.4.1 Significant info from the above INSTALL_NOTES.txt is included here. Do read the INSTALL_NOTES.txt completely, if your platform is different from Window 7 64-bit.

Never overlay a new ModelSim release over the top of an old release. Either remove the old release first or install the new release to a different location.

```
|-- Common files --
INSTALL_NOTES This file.
RELEASE_NOTES Release notes for current release.
modelsim_se_10.2_install.pdf Installation details.
```

Note:
The Win32 gcc is NO LONGER automatically installed when ModelSim is installed.
See below installation instructions.

-- For Windows -- modelsim-win32-10.2-se.exe modelsim-win64-10.2-se.exe ModelSim 64-bit self extracting executable.

-- For Windows -- win32:

modelsim-win32-10.2-se.exe Double click the file to install Modelsim.
win64:
modelsim-win64-10.2-se.exe Double click the file to install Modelsim.

ADDITIONAL SYSTEMC INSTALLATION:
copy modelsim-gcc-4.2.1-mingw32vc9.zip into the <install_path modeltech> folder
Open up the zip file modelsim-gcc-4.2.1-mingw32vc9.zip and extract the contents
into this <install_path modeltech> folder.

win64 does not support systemc

1.5 Start installing. Assuming that your OS is Windows 64-bit, after double-clicking on



1.6 Click next in the Welcome screen.

Welcome to Modelsim SE-64 10.2



1.7 Accept the target location. Select a target location:



Browse...

Let the tool create the target directory.

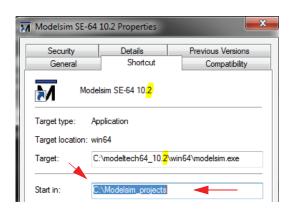
- 1.8 Agree to the License Agreement
- 1.9 Installation in progress ... Please Wait
- 1.10 The tool takes a few minutes to install. Allow it to create the Modelsim Desktop Shortcut
- 1.11 Allow the installer to Add Modelsim To Path
- 1.12 Say to Install Hardware Security Key Driver
- 1.13 Modelsim-64 Setup Complete Click on Done.
- **1.14** For our courses at USC, we keep all our modelsim projects in a directory created under C:

Please create C:\Modelsim projects

Then right-click on the desktop icon



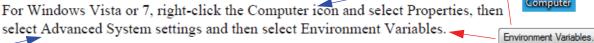
and select Properties. In the Properties dialogue box (shown on the right) change the Start in directory to C:\Modelsim projects.

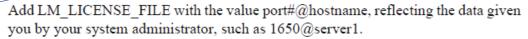


Advanced system settings

Connecting to the floating license server license.usc.edu 2

- 2.1 Please refer to the section Windows PC Client (Obtains License from a Server) on page 13 of 41 of modelsim se install.pdf.
 - Set the LM LICENSE FILE environment variable with the port# and hostname given you by the system administrator.
 - o For Windows XP, right-click the My Computer icon and select Properties, then select the Advanced tab and then Environment Variables.

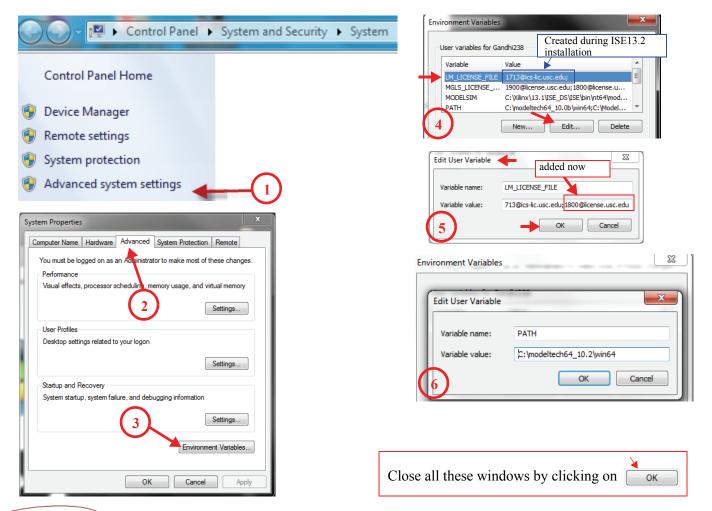




The software does not look for licensing variables in the registry, therefore you must set either LM LICENSE FILE or MGLS LICENSE FILE environment variable.

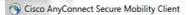
2.1.1 On my PC, I have created/edited a user environment variable LM LICENSE FILE and set its value as 1800@license.usc.edu.

I also verified that the path variable includes the Modelsim Executable C:\modeltech64 10.2\win64.



Computer

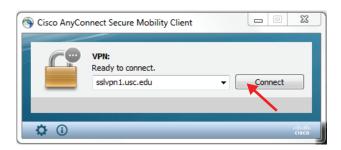
- 2.2 If you are new to creating/editing an user environment variable on a PC, read the procedure in the following page for Windows 7: http://www.itechtalk.com/thread3595.html
 And for Windows XP, read: http://vlaurie.com/computers2/Articles/environment.htm
- 2.3 Since you are trying to checkout university floating license to run Modelsim-SE (a licensed full version of Modelsim), you need to prove to USC that you are a member of USC community. This is done by doing vpn to USC.
- **2.3.1** If you are a new student at USC, probably you will not have the following program on your PC:



If you do not have the above program on your PC go to the next step to install the program.

If you have the above program, then click on it. It will show you the dialog box on the side. After you press Select, you will receive the following. Login and proceed.

After you login, wait until the lock symbol appears in your system tray at the right-bottom of your screen.

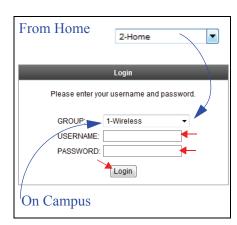




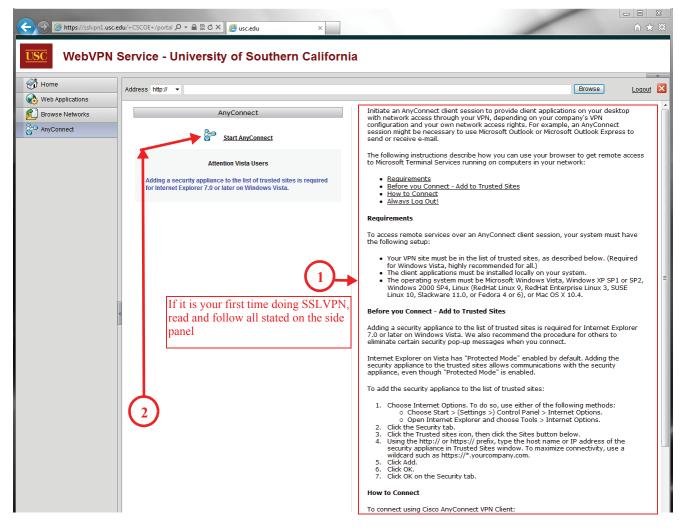




2.3.2 If you do not have Scisco AnyConnect Secure Mobility Client on your PC, go to sslvpn.usc.edu and login there using your USC login.



2.3.2.1 After you login, the following screen appears.



2.3.2.2



This website wants to install the following add-on: 'AnyConnect VPN Client' from 'Cisco Systems, Inc.'. What's the risk? Install ×

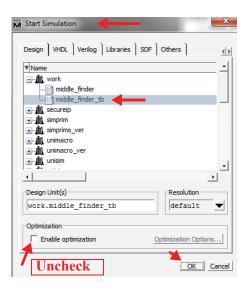
2.3.2.3 Wait until the lock symbol appears in the tray at the right-bottom of your screen.

3 Test your installation

3.1 Testing is same for any version of the Modelsim. So please use the following items to test your installation. Even though the following document talks about Modelsim PE, the procedure is equally applicable to Modelsim SE.

http://www-classes.usc.edu/engr/ee-s/457/ee457_tools/ EE457_ModelSim_PE_Testing_USC.pdf http://www-classes.usc.edu/engr/ee-s/457/ee457_tools/ ee201L Middle Finder.zip

Please make sure that you unchecked the "Enable optimization" option as shown on the side. Optimizing a test bench unfortunately removes all signals in the design. This is because the test bench (in most cases) is written to instantiate the design under test (DUT) and hence it (the test bench) itself does not have any external inputs or outputs. The optimization tool thinks that the signals in DUT which do not go anywhere beyond the top design (which is the test bench here) are essentially waste signals and trims them off:(



- 4 compxlib: There is a separate document for the OHE/RTH/SAL installations and for EE101/EE201L/ EE560 students to make the Xilinx ISE13 / 10 mail. This Modelsim SE 10.2. Unix installation can ignore this step as we did not install ISE 13.2 on unix.
- 5 Celebrate your successful completion of installing the ModelSim SE 10.23

10.4a

