

CS152 Remote Desktop Client
University of California at Berkeley
College of Engineering
Department of Electrical Engineering and Computer Sciences
Compiled: 9/4/2004 for CS152 Fall 04, Dave Patterson and John Lazzaro
Please send any errors, corrections, or comments to cs152-te@imail.eecs.berkeley.edu

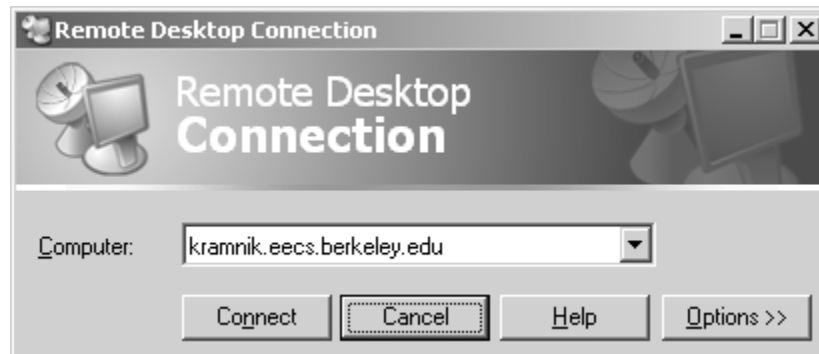
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1 Software Needed

In order to remotely access the CAD tools used for this course, a client for Windows Terminal Services is needed:

- Windows Remote Desktop
<http://www.microsoft.com/windowsxp/downloads/tools/rdclientdl.msp>
- Remote Desktop Client for OS X (untested)
<http://www.microsoft.com/mac/otherproducts/otherproducts.aspx?pid=remotedesktopclient>
- rdesktop (untested)
<http://www.rdesktop.org>

2 RDC Server



The server used for cs152 is kramnik.eecs.berkeley.edu, which runs Windows Server 2003. As of 9/4/2004 it runs slightly newer versions of the CAD tools in 119 Cory. This means that there are some migration issues between lab and kramnik. In addition, because Xilinx does not officially support running its tools under Windows Sever 2003, some significant bugs may be encountered.

3 Known Problems and their Workarounds

3.1 Unable to create a new Project Navigator Project



It appears that Project Navigator is unable to create new projects under Windows Server 2003. However, it is able to open and modify previous created ones. A blank project is located in M:\skeleton. Copy M:\skeleton to the desired directory to create a new project.

3.2 ModelSim complains about not being able to find modules/access libraries

```
# ** Error: (vsim-19) Failed to access library 'xilinxcorelib_ver' at "xilinxcorelib_ver".
# No such file or directory. (errno = ENOENT)
# ** Error: (vsim-19) Failed to access library 'unisims_ver' at "unisims_ver".
# No such file or directory. (errno = ENOENT)
# ** Error: (vsim-3033) bitladder.vf(17): Instantiation of 'XOR3' failed. The design unit was not found.
#           Region: /bit2adder_tb/myAdder/ba
#           Searched libraries:
# ** Error: (vsim-19) Failed to access library 'xilinxcorelib_ver' at "xilinxcorelib_ver".
# No such file or directory. (errno = ENOENT)
# ** Error: (vsim-19) Failed to access library 'unisims_ver' at "unisims_ver".
# No such file or directory. (errno = ENOENT)
#           work
```

In 119 Cory, we have modified the default modelsim.ini file (in c:\ModelSim_5.7d), to include information about the location of Xilinx simulation libraries. That way, when starting a simulation with “vsim -t 1ps +maxdelays -L xilinxcorelib_ver -L unisims_ver bit2adder_tb glbl,” ModelSim is able to locate the xilinxcorelib_ver and unisims_ver libraries. Copy M:\new_lib\modelsim.ini into your project directory.

3.3 ModelSim complains about incompatible library versions

```
# ** Fatal: (vsim-3381) Obsolete library format for design unit.
# ** Fatal: (vsim-3382) New library format is incompatible with this version of the simulator.
```

Because the version of Modelsim installed on Kramnik is different than the one installed in 119. For 119 Cory, copy M:\lib\modelsim.ini to your project directory, and for Kramnik, copy M:\new_lib\modelsim.ini to your project directory. If you open the file, you will see the three lines that are responsible for mapping unisims_ver and XilinxCoreLib_ver to the correct location:

```
For 119 Cory:
unisims_ver = M:/lib/unisims_ver
XilinxCoreLib_ver = M:/lib/XilinxCoreLib_ver
simprims_ver = M:/lib/simprims_ver

For Kramnik:
unisims_ver = M:/new_lib/unisims_ver
XilinxCoreLib_ver = M:/new_lib/XilinxCoreLib_ver
simprims_ver = M:/new_lib/simprims_ver
```

4 Additional Information

See the cs150 Kramnik information page: <http://www-inst.eecs.berkeley.edu/~cs150/fa04/Kramnik.htm>