

















































Bundle Signals	
ut /export/home/demo/FSM/example.vcd – Version File Famat Options Window Tools Help TD=2.12750e+04.5	on 2003.2.2 Mon Dec 6 17:34:27 2004
Image: Second	
	150
Modules, Filter	
. printmem	addres:(83.0) 'ale dflag:(8.1) ''omout ''read write [1]
	* *





























Fast file and load input	
tet: Version 2003.2.1 Mon Dec 6 13:03:47 2004 File famal Options Window Tools Help	 Fast file can be created using an option Load input file using navigator button
	Veritools



Group signals	5
If the Feind Options Window Task Help If Feind Options Window Task Help If Feind Options Window Task Help If A feind of the Window Task If A	 To group, display, modify and delete signals collectively Group of signals can be named collectively
Apply Close	Fle GrupVoritools





Tags & Trigger	
ut Romendemo lexample dexample dexample files/histon.out fast - Version 2083.2.1 Mon Dec 6 16:15:27 2804 File Fund Option Window Tool Hell Tool The Cold Option The Cold Opt	 Option to create tags Title tag, Value tag, Measurement tag Trigger option identifies and drops tags at user specified events
Image: Second	Veritools

	Goto option	
L ut /home/demo/example	es/example_files/hsim.out.fast - Version 2003.2.1 Mon Dec 6 16:36:30 2004 _ 🗌 🗙	• To reach a point in x-axis or
M & D & C & & O & D	Goto button	y-axis by virtue of its value,
r pquast 1.1 Yu		or time or transition type
17.0000 17. 15.		Likewise for each cursor
///was_(v) 3.6000		
/Showhigh(v)		
1/wcgvj 18000	00/ Christian Ref Current of Curr	
eye_diag_ted	V seet Vite Vite Vite Vite	
eye_diag_led	ev to Find Source) Go Toj So Back (Cancel) Help	
14 Dia 10		
💾 🚧 🔨 📢 📈 🕴 🍂 _/16622 [hsimu	out/ast)	
Modules: Filter	Vanibles Filter]	
. x0	²¹ Ceptiny ceptiny ceptiny ceptiny ceptiny nettoday	
		Voritools



















Start I mode	Undertow Suite in interactive
	Place ut $-iv -xl$ in front of the word "verilog" for interactive operation, and add a command to identify your signal file name
	-sigfile waveform_file_name
	verilog –f <i>design file command-line-args</i> becomes
	ut –iv –xl verilog –f <i>design-file command-line-args</i> –sigfile <i>abc.sigs</i>
	Veritools















Use "All" to select all signals at a level



Once the Display icon is toggled down, users can press the "All", icon to select all signals at this level, to be added to waveform display.

Note, Undertow is extremely fast, even if this had been a 2 gigabyte waveform file, the signal data would have been displayed on Undertow almost instantly, provided the data is either in an optimized file or a fast file format.

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Use "Snap" T >-8 Values are shown m, n, o, p, q, r, s, under the signal name Time for T0 cursor shown here Set Snap icon toggle down to enable snap Ca 110 14 20 4 11 14 14 14 10 **8 8**° 27 201 (Strong (Stron Літорісті Парутія Ісій Ларутія Ісій Парутія Ісій Парутія Ісій Парутія Ісій Літорія Літорія Літорія Літорія Літорія Літорія Літорія Літорія Snap T0 cursor to edge of signal VOMOOIS
















































Appendix A: License Installation cont.

Stop and restart your license server from your LicenseMgr directory.

- %./lmutil lmdown -c license.dat //to stop
- %./lmgrd -c license.dat -l log.txt //to start
- %./Imutil Imreread -c license.dat can be used if the Imgrd is started in the first place.
- If you modify the license.dat file, you should reinitialize lmgrd by running lmreread.

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• %./Imutil Imstat -c license.dat //will let you know whether the license is up or not.

If you have any problem with getting your license up, you can try the following:

- 1. Set the hostname of your machine to be its ip address.
- 2. Replace hostname in the license file with its ip adress.
- 3. Change the VENDOR line in the license file to DAEMON /path/verid

Appendix A: License Installation cont. Also, once your license is up and running, make sure you set the following environment variables and source your .cshrc file: $setenv \ UT_ROOT_DIR < path_to_undertow_installation_directory>$ 1. UT_ROOT_DIR points to the installation directory of the Undertow Suite. setenv UT_WORK_DIR path_to_working_directory> Sets the default directory 2. for Undertow Suite file dialogs. You can set it to the current directory. 3. PATH variable: If the Undertow executable (ut) is in a directory path that you specified in the UNIX PATH variable, then you can specify only the executable name (ut) when you start the software. setenv LM_LICENSE_FILE <path to license file>/license.dat Set the 4. LM_LICENSE_FILE environment variable to point to your license file. 5. Then source your .cshrc file before you use ut: %source ~/.cshrc Verify the above as follows: %echo \$UT_ROOT_DIR %which ut These should 6. give you the path to the Undertow installation directory Veritools

























MODELTECH contd.

To open the Undertow Suite in batch mode, the command lines are as follows: ut -iv -f <source_code_file> -sigfile <signal_file> <source_code_file> is the file that lists all the source code files. For example, ut -iv -f source -sigfile fsm.sigs To view just the waveform, ut -v <signal_file> For example, ut -v vt.dump

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NCSIM contd.
 If you are compiling your design through the simulator for the first time, follow these steps: a) Run "ncprep" ncprep -f source -f <file> : used to specify file that contains all the user verilog files. Here, 'source' is a file with all of the user's Verilog files(top.v, fsm1.v, fsm2.v, fsm3.v) and iv.v</file> iv.v is available in the example directory. Note that ncprep will generate the following files and directories. cds.lib hdl.vars INCA_LIB ncvlog.args ncelab.args ncsim.args
Veritools



NCSIM contd.	
 You can then compile through the simulator again as follows: //run_ncsim run_ncsim contents	
# Run the NC-Verilog elaborator (build the design hierarchy) ncelab -f ncelab.args if (\$status != 0) then exit Endif	
	run_nesim <i>contd.</i>



















"Action" Butto	
Button Label Co Button Label : Co 3 then stop Text To Send To Simulate : Image: Text To Send To	 From the Source Code Window menu choose: Session => Button Print the text in "Button Label" text area and simulator command in "Text To Send To Simulator" text area in the "Button Definition" window Press Apply
	Voritools

Finish Simulation	
Subce Mandee - A regist frame dama (2002) 2 A scaled (0/05 hord) 1000 Subce Mandee - A regist frame dama (0/00) 2 A scaled (0/05 hord) 1000 Subce Mandee - A regist frame dama (0/00) 2 A scaled (0/05 hord) 1000 Subce Mandee - A regist frame dama (0/00) 2 A scaled (0/05 hord) 1000 Subce Mandee - A regist frame dama (0/00) 2 A scaled (0/05 hord) 1000 Subce Mandee - A regist frame dama (0/00) 2 A scaled (0/05 hord) 1000 Subce Mandee - A regist frame dama (0/00) 2 A scaled (0/00)	To finish the simulation click on "Finish" from the "Action" list This will exit the simulator after it has finished the given time points
	<u> </u>

History	
Support Support	 Click on "History" button to display the list of previous executed commands.
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Breakpoint Window	
Breakpoint Window r Break Points:	
	_Veritools


















Trace - Breakpoints	
Suprementation Supreme	To add the breakpoint in the "Simulation Trace Window" at the given cursor position Click in "Breakpoint On Line" button
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