

Solutions to Common ModelSim errors

1 PROBLEM

1. An error message appears of the form:
** Error: (vcom-xxx)
2. Trying to compile some HDL code you get the message:
** Error: (vcom-19) Failed to access library 'work' at "work".
No such file or directory. (errno = ENOENT)
3. Trying to simulate you get the message:
** Fatal: (vsim-3382) New library format is incompatible with this version of the simulator.
(See design unit listed above)
4. Trying to compile Xilinx Simprim library you get the message:
** Error: C:\Xilinx\vhdl\src\simprim\simprim_VITAL.vhd(xxx): VITAL TISD timing generic must be a scalar form of VITAL delay type. (1076.4 section 4.3.2.1.3.13)

2 SOLUTION

1. Use the **verror** command from a command prompt to get more details and references to the error number within the documentation:

```
verror <error_number>
    returns
vsim message <error_number>:
<error_description>
[DOC: Modelsim User's Manual - <chapter_title>]
```

2. No default library exists. You must do one of the following:
 1. Create a new library called "work" (**vlib work**)
 2. Map an existing library to become "work" (**vmap work <library_path>**)
 3. Create a new library and map to "work" (**vlib <library_name>; vmap work <library_path>**)
 4. Compile to a library other than "work" (**vcom -work <library_name> ...**)
3. Library is out of date. To refresh this you need to either use GUI, right-mouse click on the library then select Refresh or use:

```
vcom -refresh -work <library_name>
or
vcom -refresh -work <library_path>
```

Note: Refresh will only be required between major versions ie 5.7x to 5.8x not on minor, ie 5.8 to 5.8a

4. You have tried to compile the standard Xilinx Simprim vhd files instead of the mti-specific ones:

```
simprim_Vcomponents_mti.vhd
simprim_Vpackage_mti.vhd
simprim_VITAL_mti.vhd
```

An explanation for this can be found in the file, **\$XILINX\vhdl\src\simprim\readme**

DISCLAIMER

This technical note is provided in good faith, and is intended to offer some guidance and ideas as to how you might improve the effectiveness with which you use our tools in the implementation of your designs. Whilst we make every endeavour to ensure the correctness of the information herein you should verify its suitability for use in your design as Saros Technology can accept no liability for any damages arising from its use howsoever caused.