Icarus Simulator helloworld simulation repo 102121icozip 10/10/23

The helloworld_tb.v needs to be created. See catboard-relook/doc/iverilog/helloworld_tb.v

devel@pi4-20:~ \$ cd 102121icozip/rtl/uart/

devel@pi4-20:~/102121icozip/rtl/uart \$ iverilog -o dsn helloworld_tb.v helloworld.v The following

initial begin #1920000 \$finish(); end

devel@pi4-20:~/102121icozip/rtl/uart \$ vvp dsn VCD info: dumpfile helloworld.vcd opened for output. devel@pi4-20:~/102121icozip/rtl/uart \$

devel@pi4-20:~/102121icozip/rtl/uart \$ vvp dsn-VCD info: dumpfile helloworld.vcd opened for output. Killed

devel@pi4-20:~ \$ kill -9 9093

devel@pi4-20:~/102121icozip/rtl/uart \$ gtkwave helloworld.vcd

GTKWave Analyzer v3.3.104 (w)1999-2020 BSI

[0] start time. [1920000000] end time.

devel@pi4-20:~/102121icozip/rtl/uart \$ gtkwave helloworld.vcd

GTKWave Analyzer v3.3.104 (w)1999-2020 BSI

Near byte 57770007, Unknown VCD identifier: '11101100101000010010' [0] start time. [9697700] end time.



The above image has time where as the image below time is unknown.



i_setup is 0x364 or 868 is for a baudrate 115200.

		868.055555
100000000	115200	555556
		434.027777
100000000	230400	777778
		289.351851
100000000	345600	851852
		217.013888
100000000	460800	888889
100000000	921600	108.506944 444444
100000000	1843200	54.2534722 222222

state is 0-9 for the 10 bits to transmit 1 ASCII chacter.

devel@pi4-20:~/102121icozip/rtl/uart \$ git diff helloworld.pcf diff --git a/rtl/uart/helloworld.pcf b/rtl/uart/helloworld.pcf index 8337466..b12f38f 100644

--- a/rtl/uart/helloworld.pcf

+++ b/rtl/uart/helloworld.pcf

@@ -13,6 +13,6 @@ set_io o_ledg A9 #IOT_194 LED1

#set_io o_ledr B7 #IOT_207 LED4

set_io i_rts A1 #IOT_220 PM2-A1 i_rts

set_io o_cts B6 #IOT_208 PM2-A4 o_cts