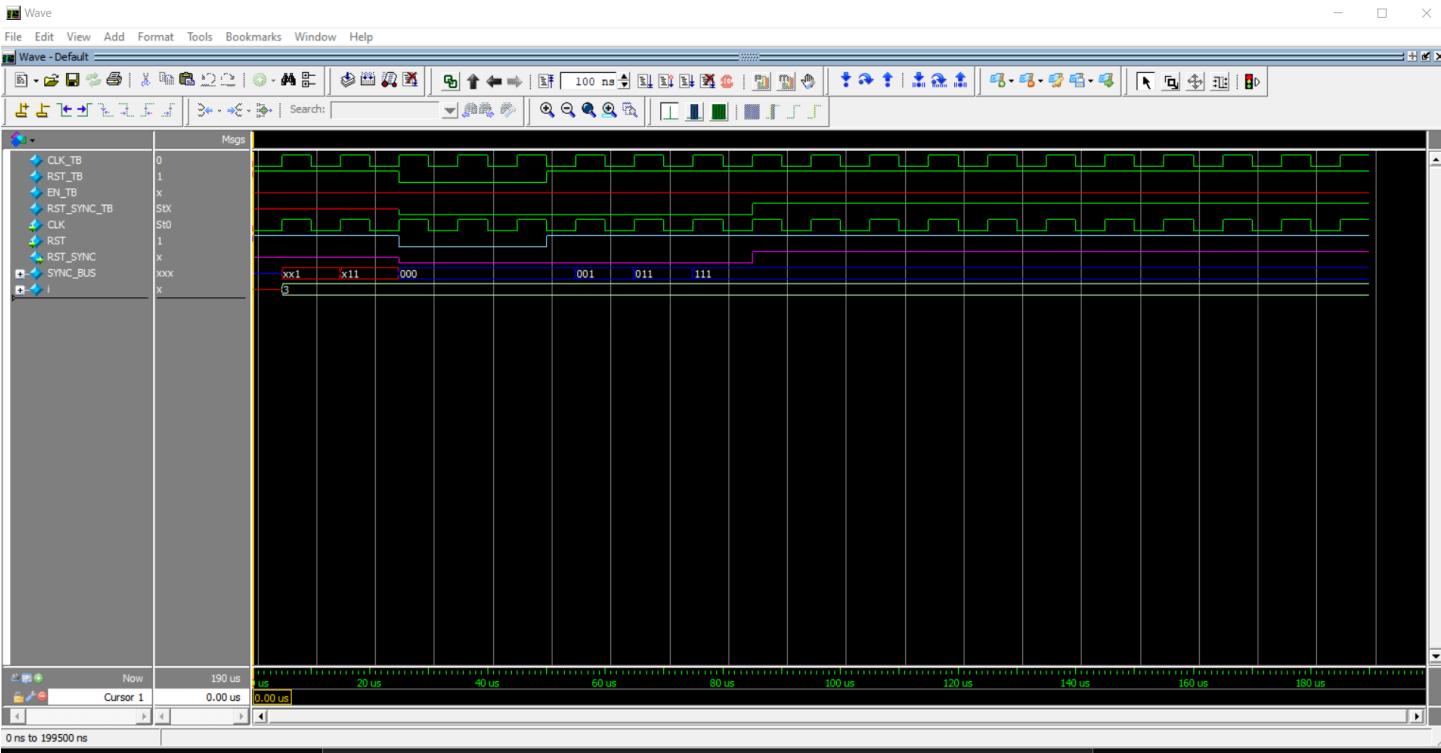


# **RESET SYNCHRONIZER**

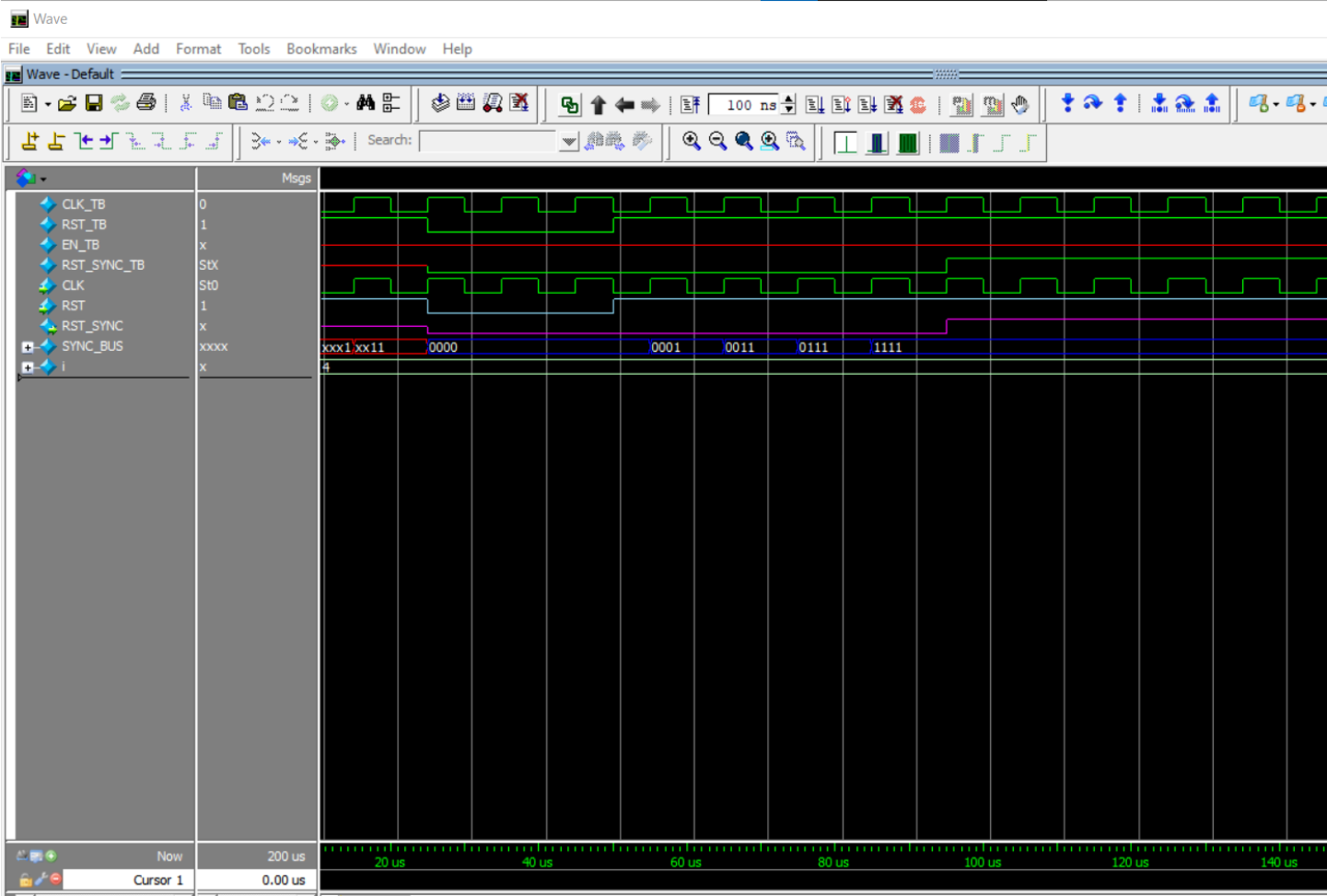
*8//6//2024*

*Ziad Ahmed  
ENG: Ali\_Eltemsah*

Wave form for RESET\_SYNC while Assertion && DE-Assertion when NUM\_STAGES = 3



Wave form for RESET\_SYNC while Assertion && DE-Assertion when NUM\_STAGES = 4



# Log window snip shot

```
project open {E:/Digital Projects/RESET_SYNC/RESET_SYNC}
# Loading project RESET_SYNC
ModelSim> do run.txt
# ** Warning: (vlib-34) Library already exists at "work".
#
# Model Technology ModelSim ALTERA vlog 10.1b Compiler 2012.04 Apr 27 2012
# -- Compiling module DATA_SYNC
# -- Compiling module DATA_SYNC_TB
#
# Top level modules:
#   DATA_SYNC_TB
# vsim -voptargs+=accs work.DATA_SYNC_TB
# Loading work.DATA_SYNC_TB
# Loading work.DATA_SYNC_TB
# TEST CASE 1 testing assertion of the asynchronous reset
# Test_Case is succeeded and RST_SYNC = 0 at Time 30
# TEST CASE 2 testing de-assertion of the asynchronous reset
# Test_Case is succeeded and RST_SYNC = 1 at Time 100
# Break in Module DATA_SYNC_TB at RESET_SYNC_TB.v line 28
# Simulation Breakpoint: Break in Module DATA_SYNC_TB at RESET_SYNC_TB.v line 28
# MACRO ./run.txt PAUSED at line 7

VSIIM(paused)>
```