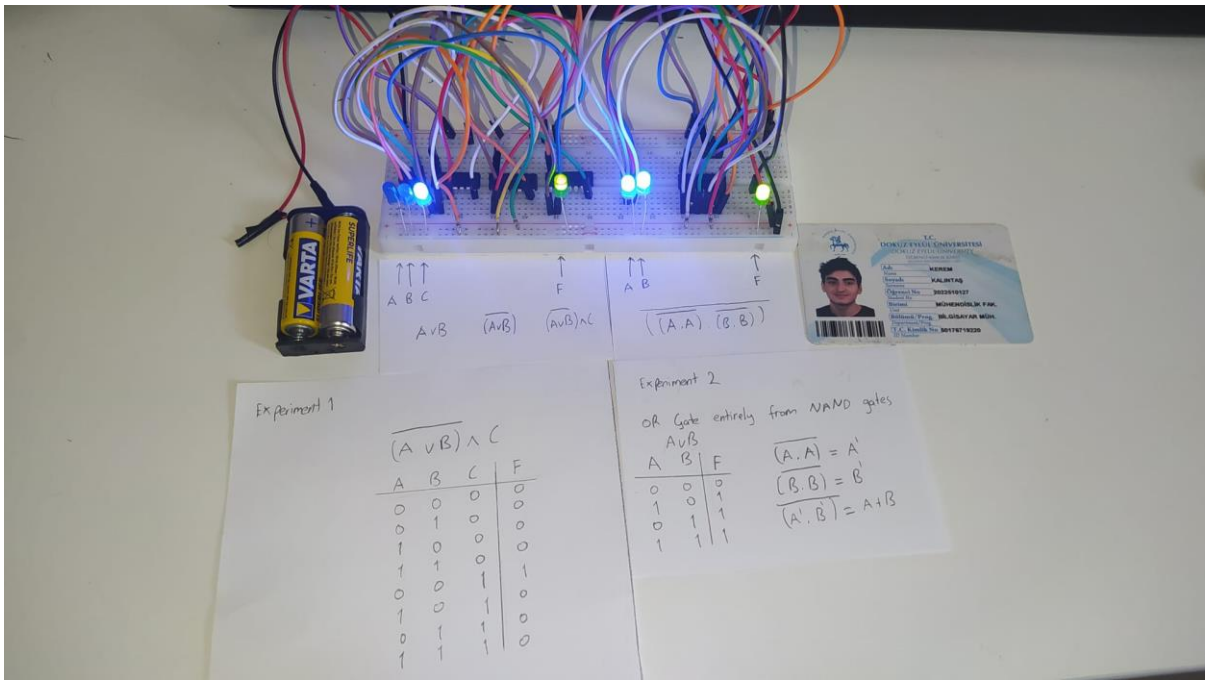
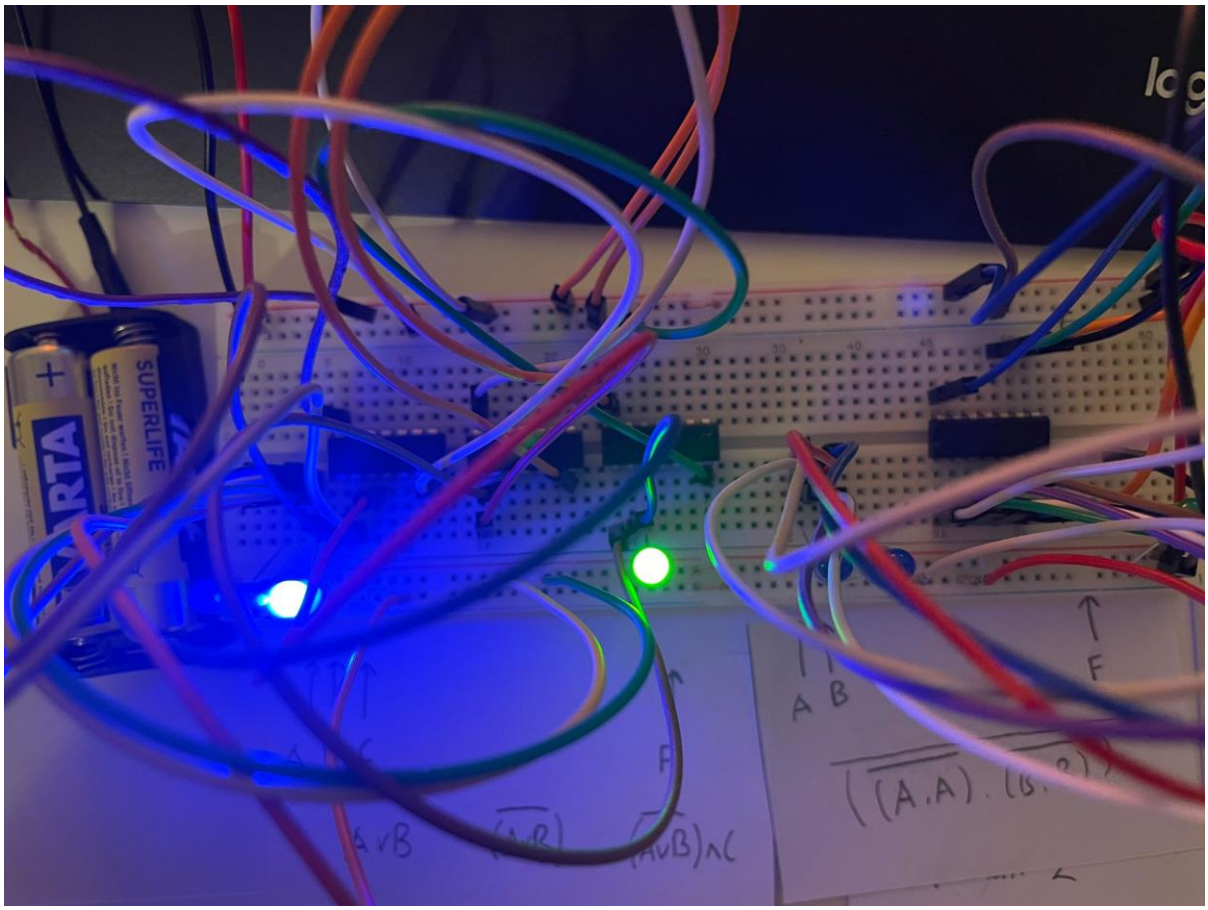
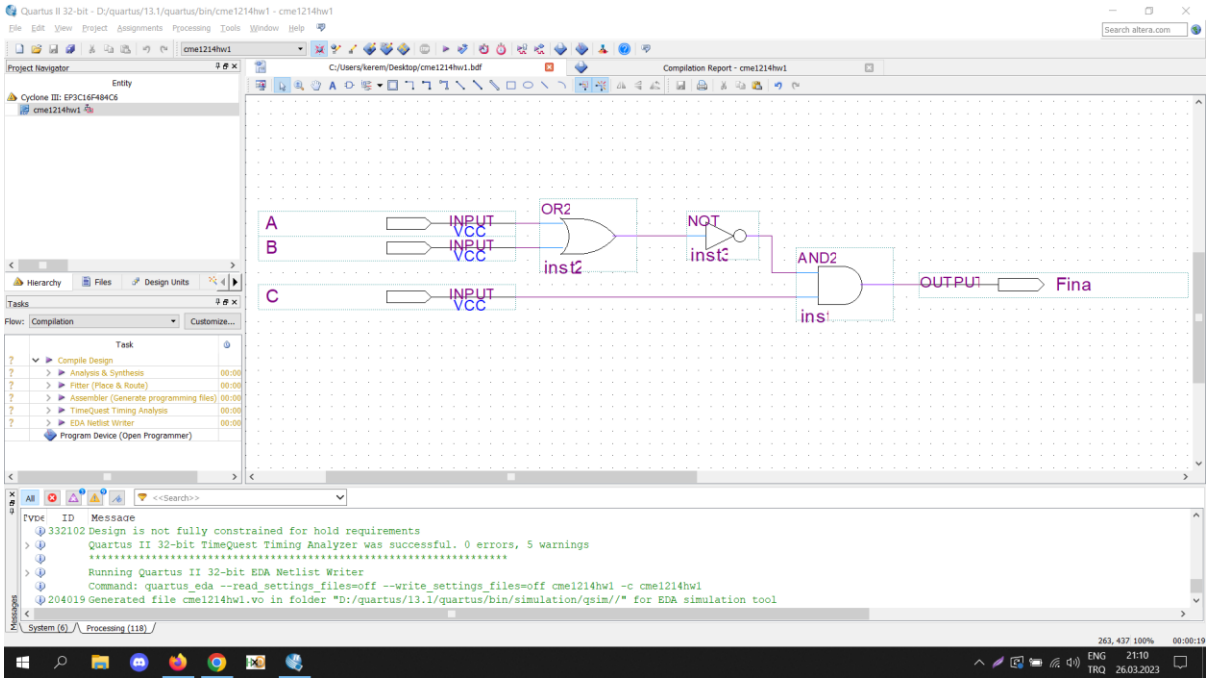
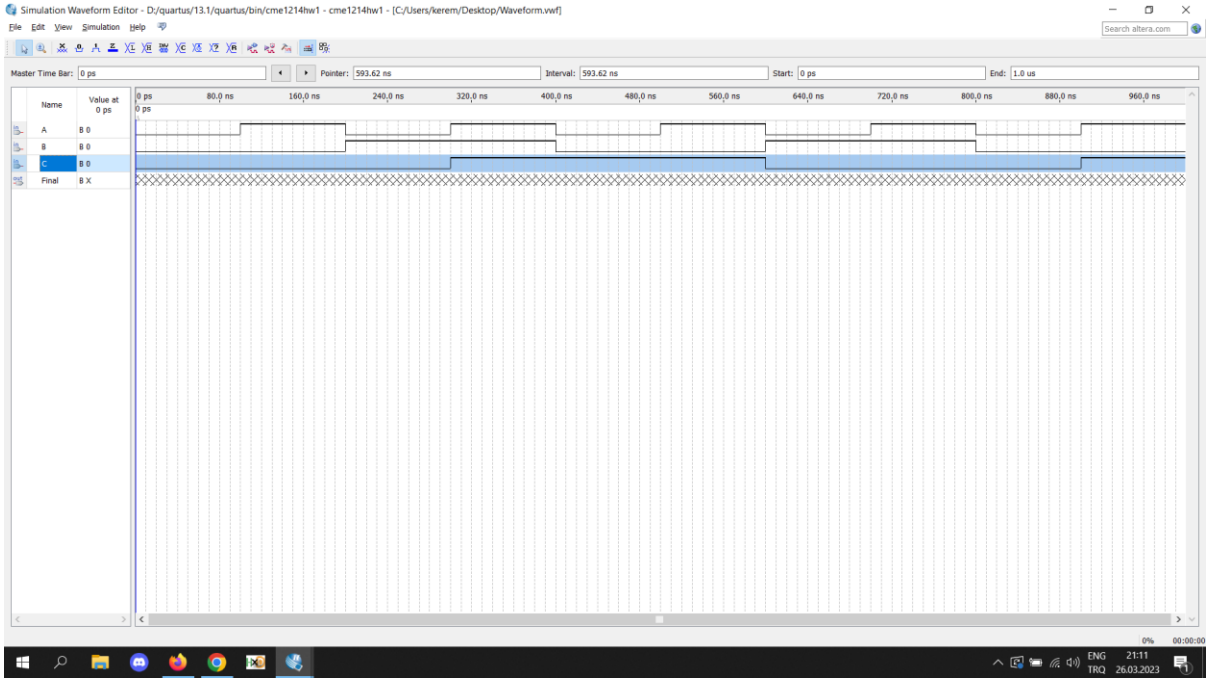
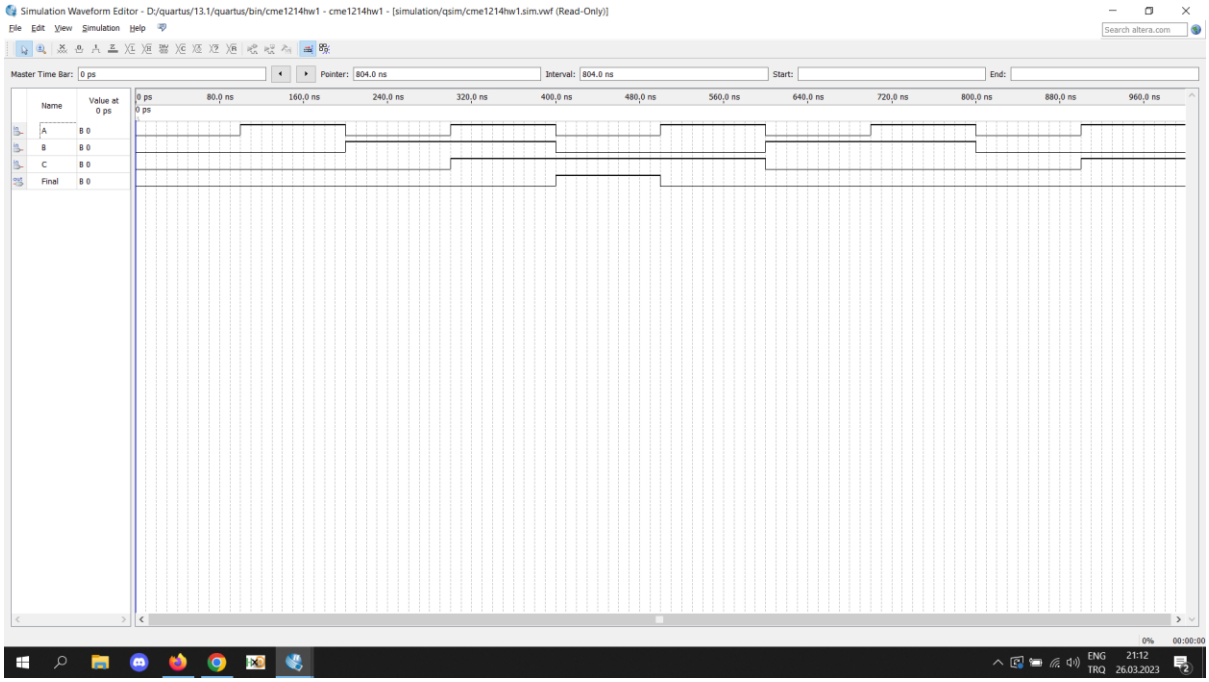
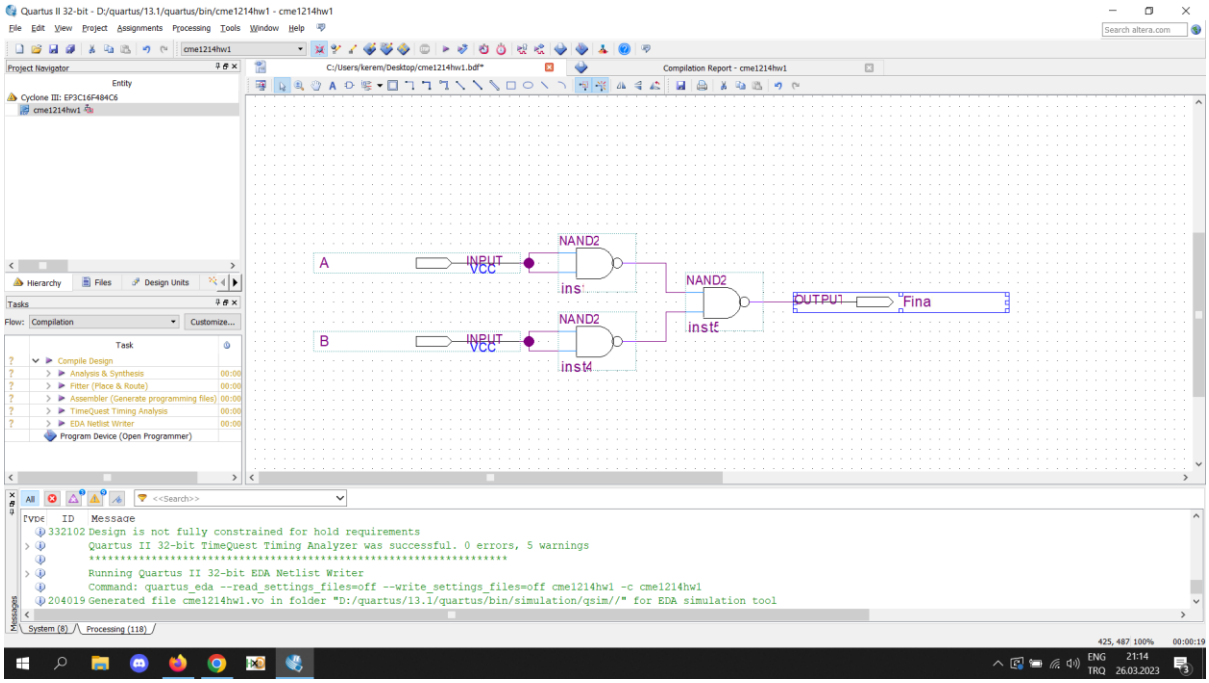

VARTA
SUPERLIFE
A B C
F
A B
F
Experiment 1
$\overline{(A \vee B)} \wedge C$
Experiment 2
OR Gate entirely from NAND gates
$\overline{(A.A)} = A'$
$\overline{(B.B)} = B'$
$\overline{(A'.B')} = A+B$

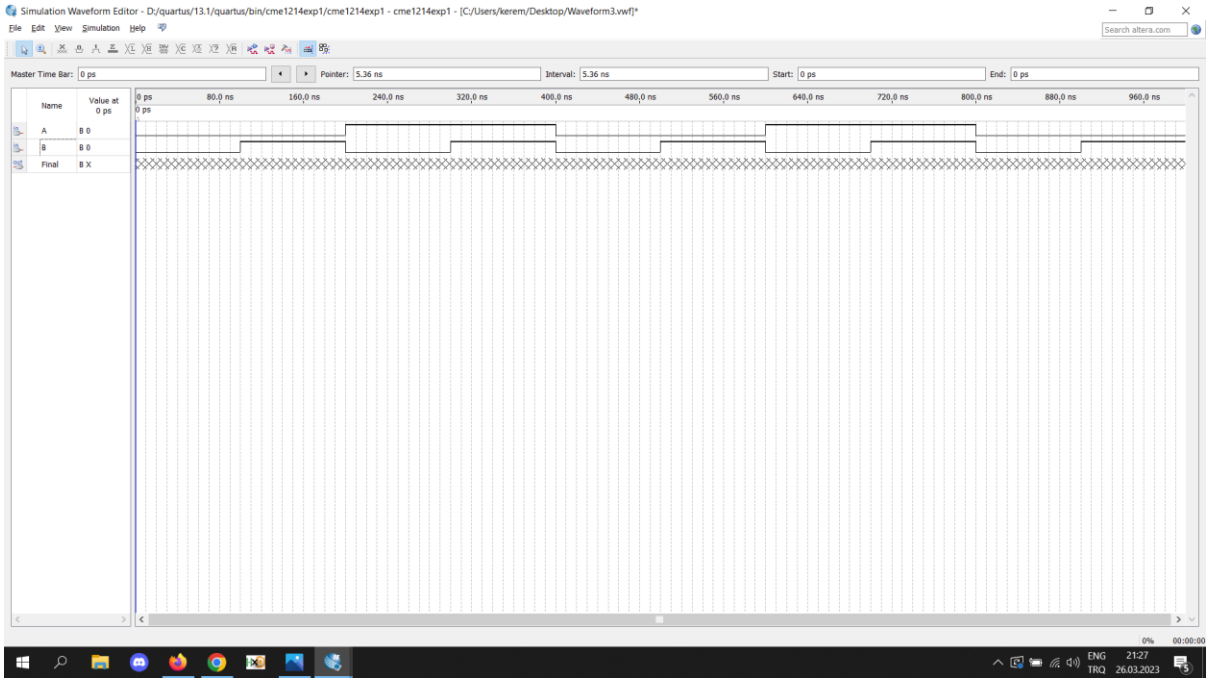

SUPERLIFE
A B
F

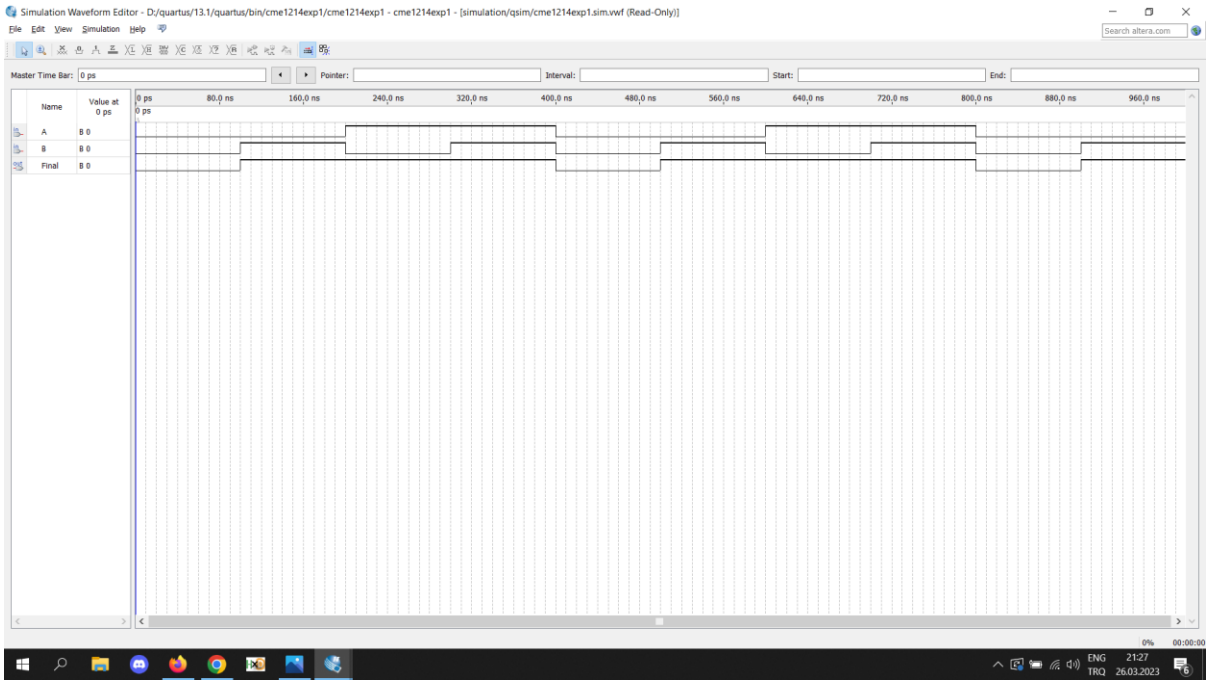

A
B
C
INPUT
VCC
OR2
inst2
NOT
inst3
AND2
inst1
OUTPUT
Fina




Simulation Waveform Editor - D:/quartus/13.1/quartus/bin/cme1214hw1 - cme1214hw1 - [simulation/qsim/cme1214hw1.sim.vwf (Read-Only)]
File Edit View Simulation Help
Master Time Bar: 0 ps
Pointer: 804.0 ns
Interval: 804.0 ns
Start:
End:
Name
Value at 0 ps
A
B
C
Final
0 ps
80,0 ns
160,0 ns
240,0 ns
320,0 ns
400,0 ns
480,0 ns
560,0 ns
640,0 ns
720,0 ns
800,0 ns
880,0 ns
960,0 ns


Quartus II 32-bit - D:/quartus/13.1/quartus/bin/cme1214hw1 - cme1214hw1
File Edit View Project Assignments Processing Tools Window Help
Project Navigator
Entity
Cyclone III: EP3C16F484C6
cme1214hw1
Hierarchy
Files
Design Units
Tasks
Flow: Compilation
Customize...
Task
Compile Design
Analysis & Synthesis
Fitter (Place & Route)
Assembler (Generate programming files)
TimeQuest Timing Analysis
EDA Netlist Writer
Program Device (Open Programmer)
C:/Users/kerem/Desktop/cme1214hw1.bdf*
Compilation Report - cme1214hw1
A
B
INPUT
VCC
NAND2
ins
inst4
inst5
OUTPUT
Fina
Type ID Message
332102 Design is not fully constrained for hold requirements
Quartus II 32-bit TimeQuest Timing Analyzer was successful. 0 errors, 5 warnings
Running Quartus II 32-bit EDA Netlist Writer
Command: quartus_eda --read_settings_files=off --write_settings_files=off cme1214hw1 -c cme1214hw1
204019 Generated file cme1214hw1.vo in folder "D:/quartus/13.1/quartus/bin/simulation/qsim//" for EDA simulation tool
System (8)
Processing (118)


Simulation Waveform Editor - D:/quartus/13.1/quartus/bin/cme1214exp1/cme1214exp1 - cme1214exp1 - [C:/Users/kerem/Desktop/Waveform3.vwf]*
File Edit View Simulation Help
Search altera.com
Master Time Bar: 0 ps
Pointer: 5.36 ns
Interval: 5.36 ns
Start: 0 ps
End: 0 ps
Name
Value at 0 ps
A
B 0
B
B 0
Final
B X
0 ps
80,0 ns
160,0 ns
240,0 ns
320,0 ns
400,0 ns
480,0 ns
560,0 ns
640,0 ns
720,0 ns
800,0 ns
880,0 ns
960,0 ns
0%
00:00:00
ENG
TRQ
21:27
26.03.2023


Simulation Waveform Editor - D:/quartus/13.1/quartus/bin/cme1214exp1/cme1214exp1 - cme1214exp1 - [simulation/qsim/cme1214exp1.sim.vwf (Read-Only)]
File Edit View Simulation Help
Search altera.com
Master Time Bar: 0 ps
Pointer:
Interval:
Start:
End:
Name
Value at 0 ps
A
B 0
B
B 0
Final
B 0
0 ps
80,0 ns
160,0 ns
240,0 ns
320,0 ns
400,0 ns
480,0 ns
560,0 ns
640,0 ns
720,0 ns
800,0 ns
880,0 ns
960,0 ns
0%
00:00:00
ENG
TRQ
21:27
26.03.2023