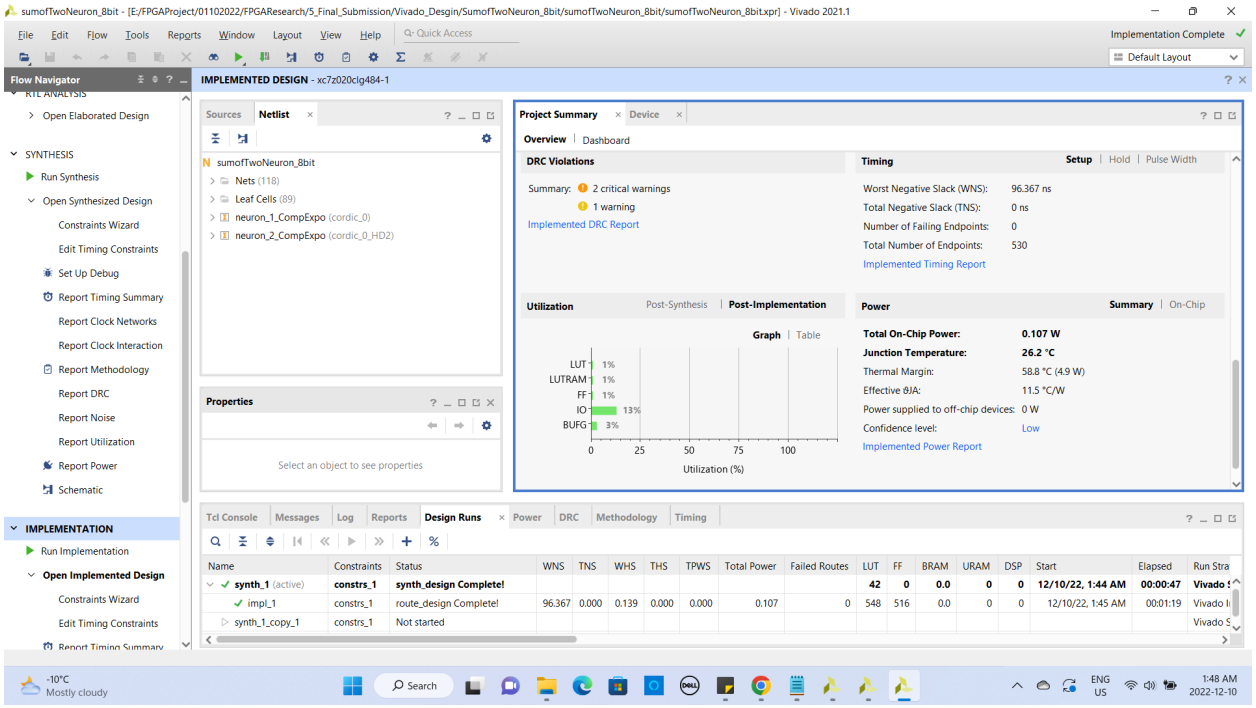
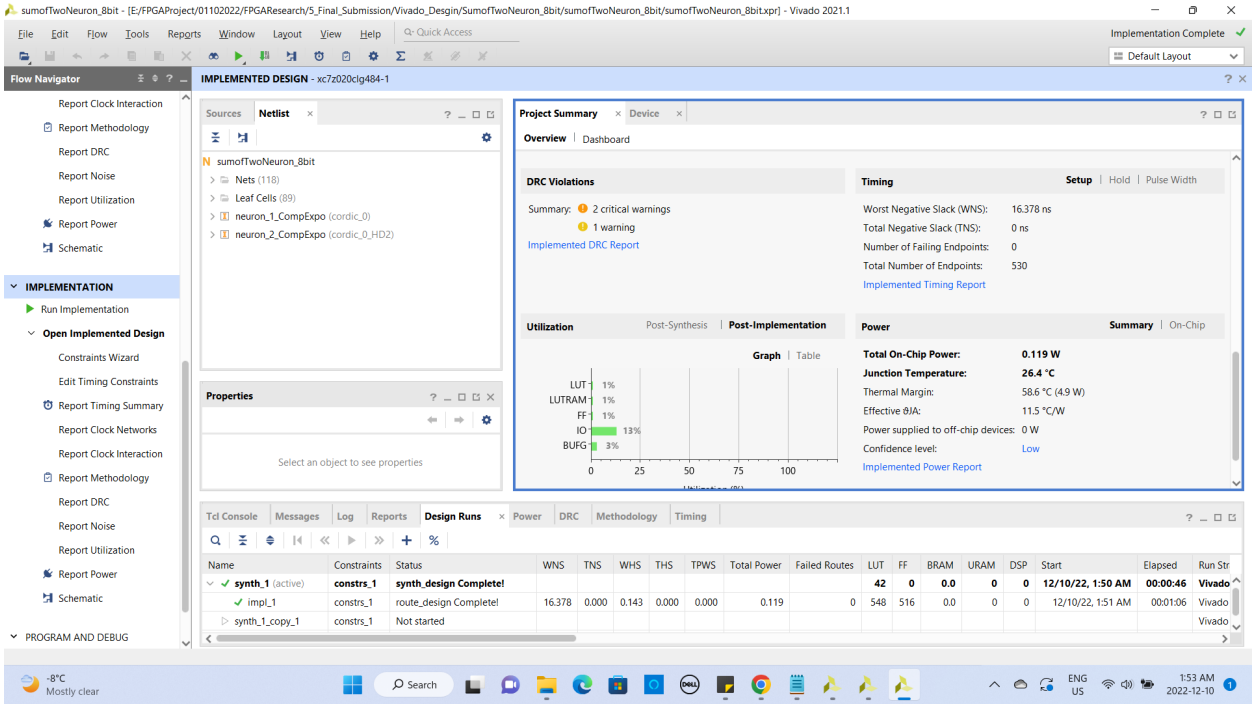
8-bit Direct VHDL

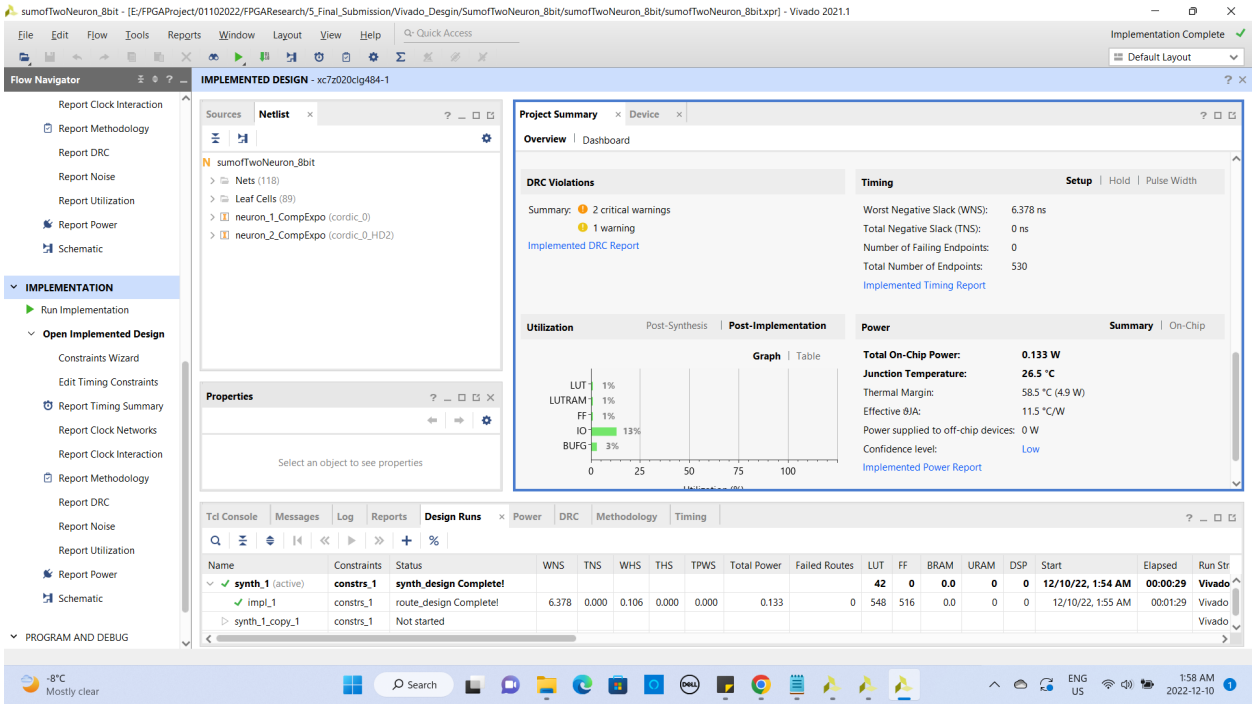
10MHz



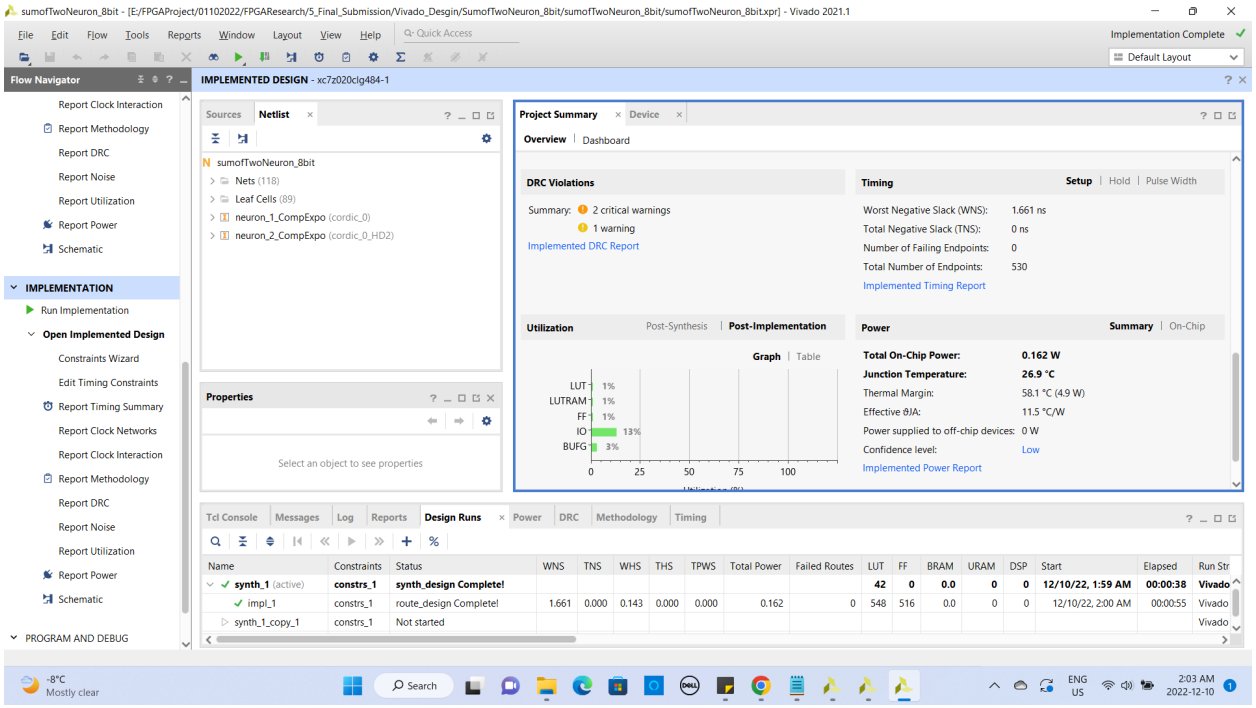
50MHz



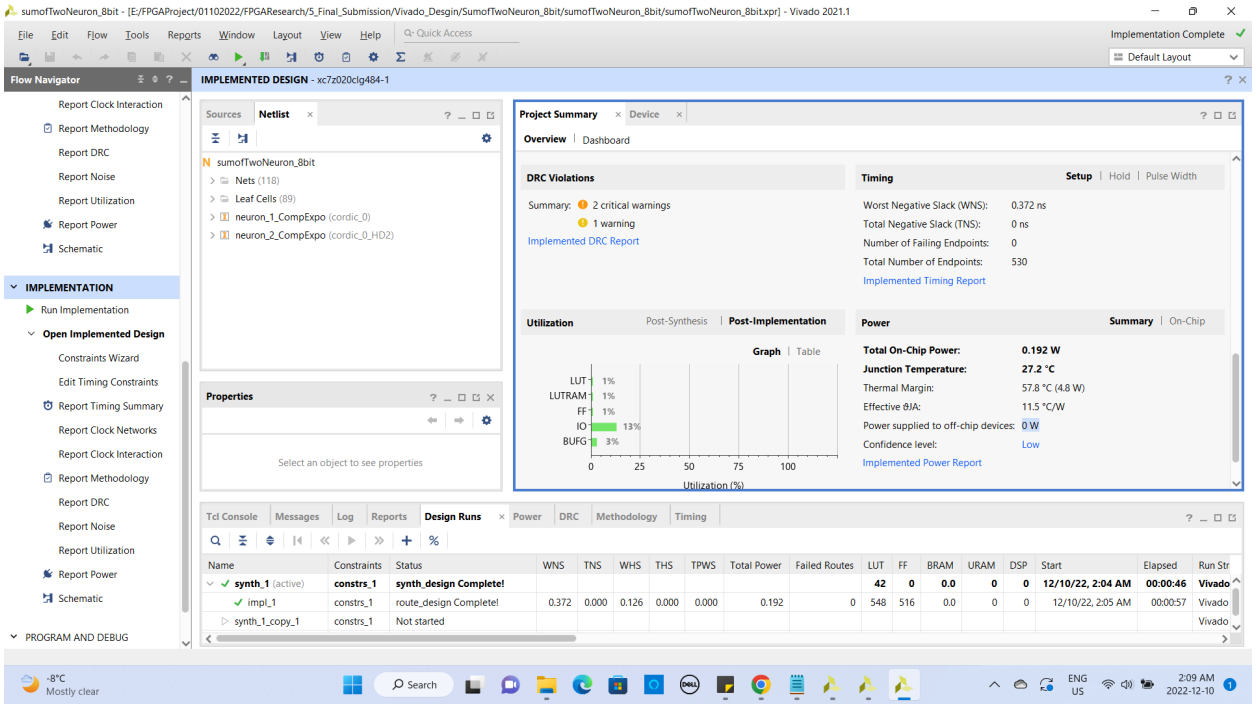
100MHz



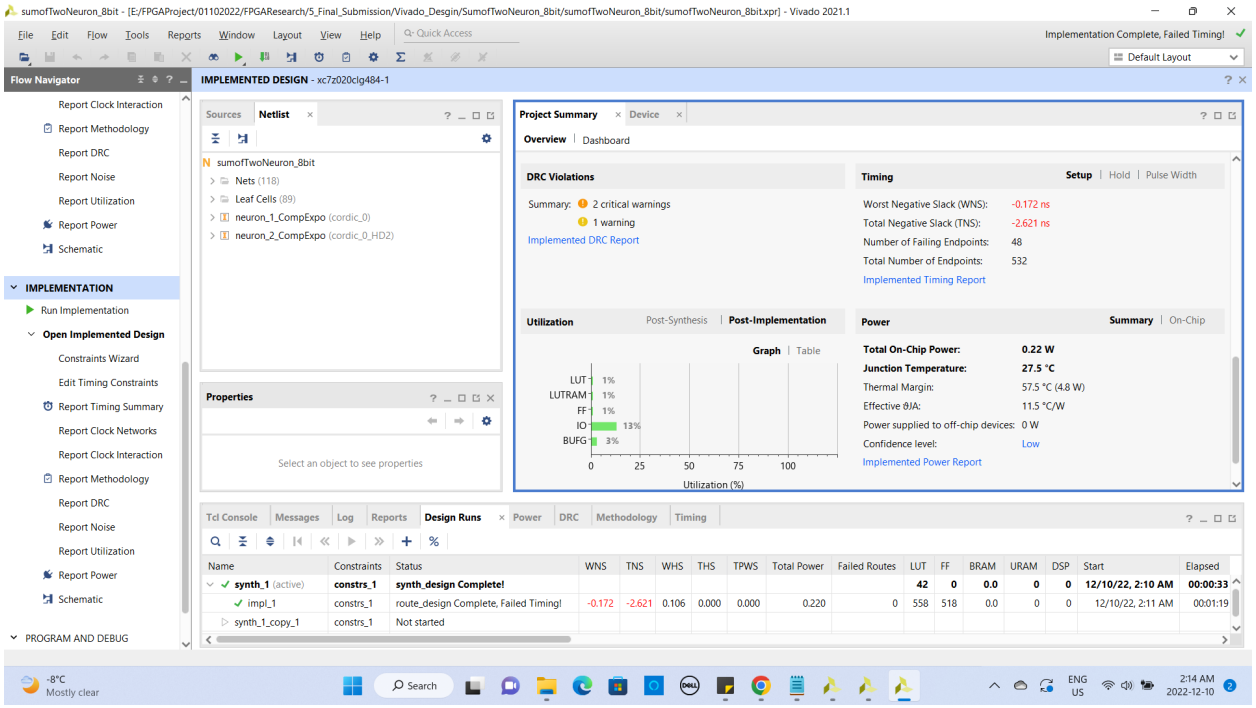
200Mhz



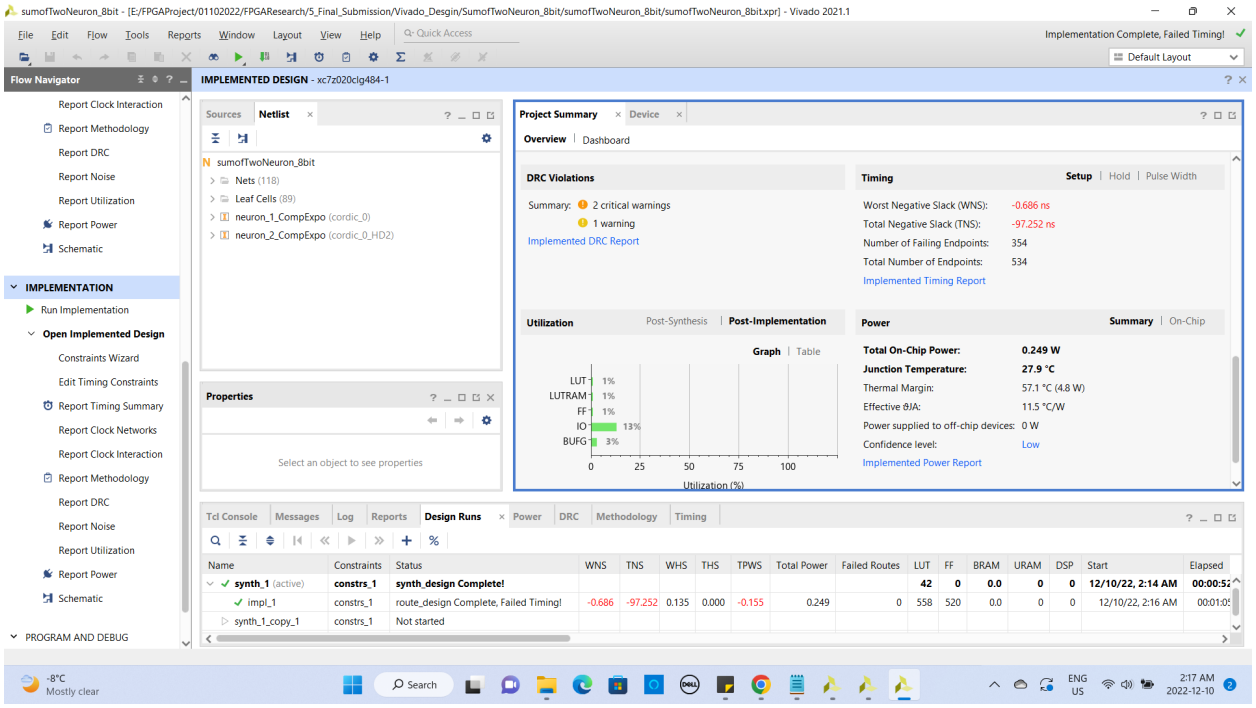
300MHz



400Mhz

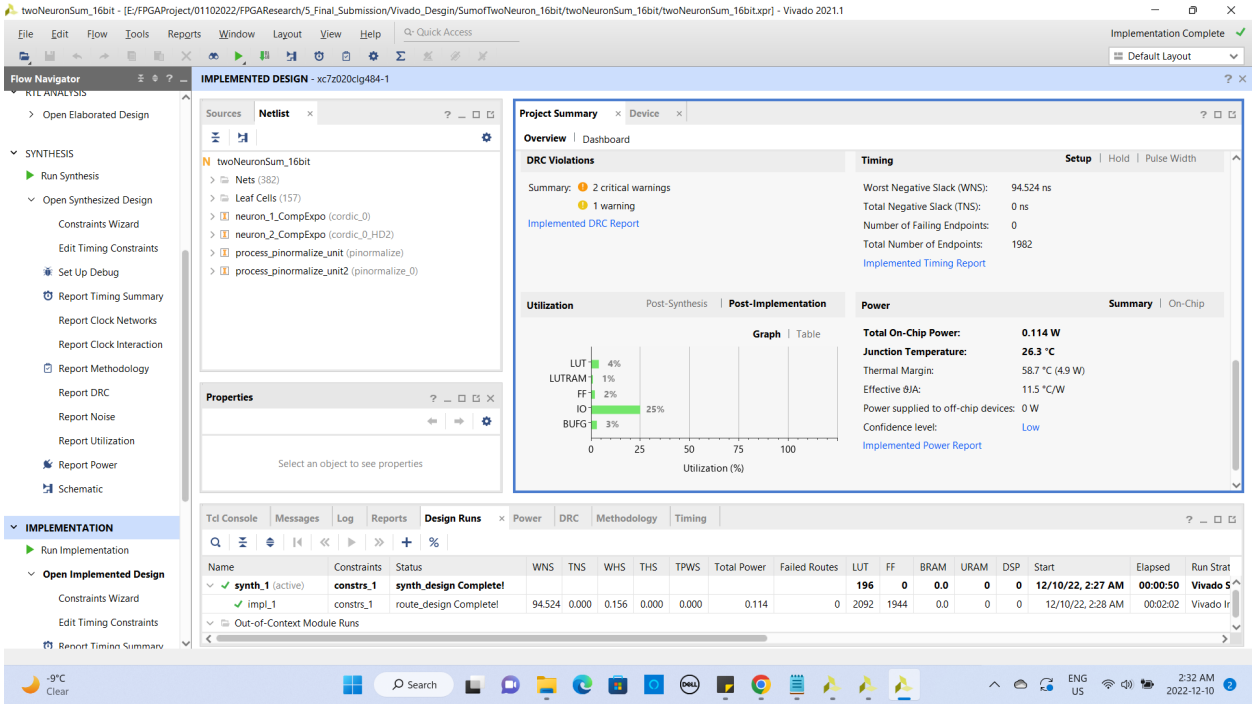


500Mhz

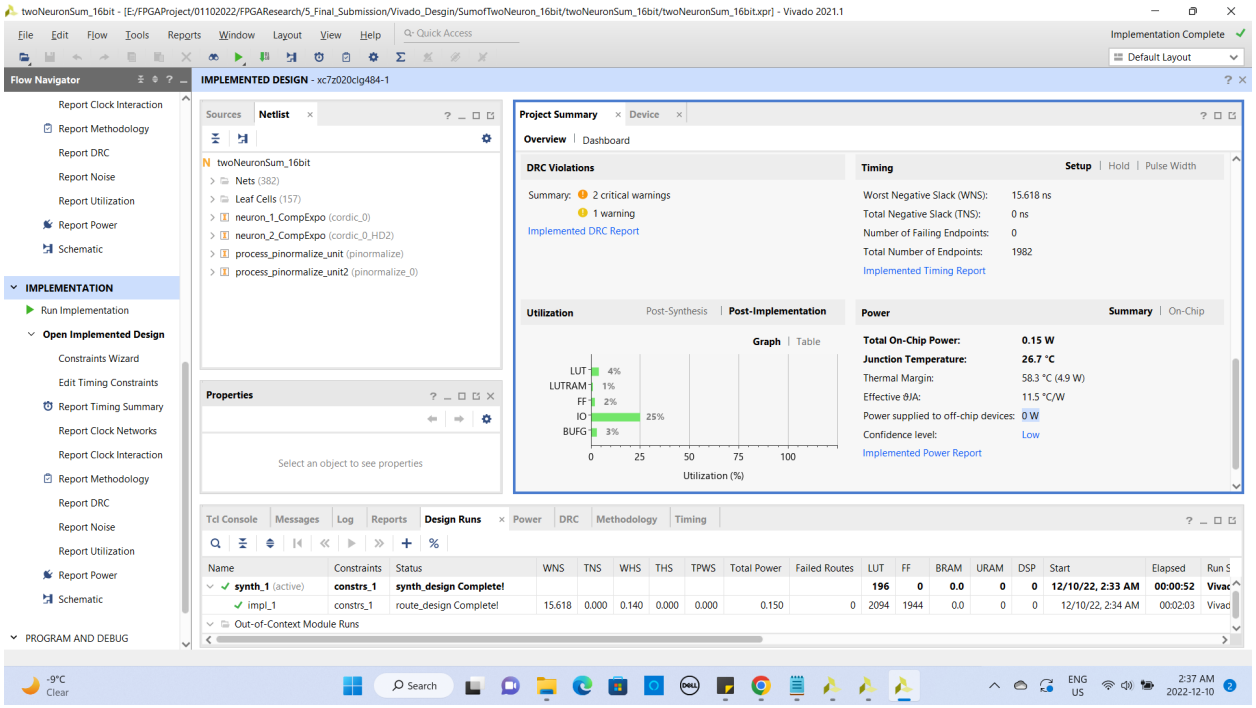


16-bit Direct VHDL

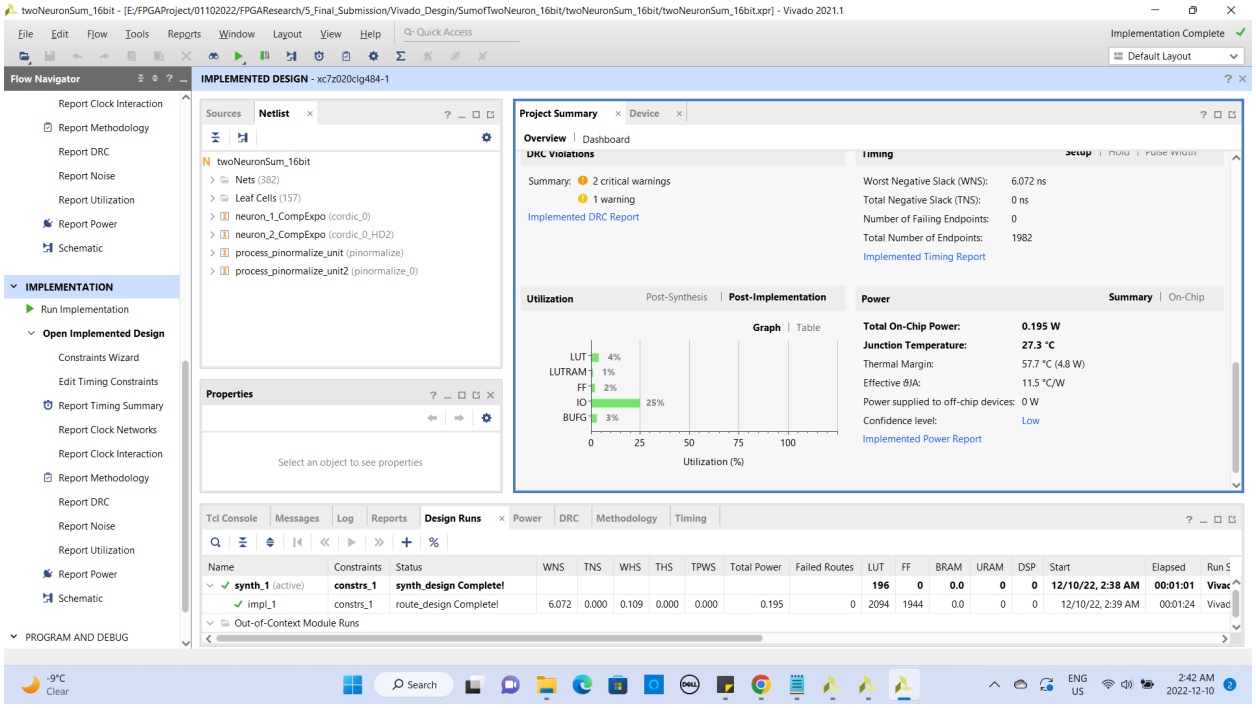
10MHz



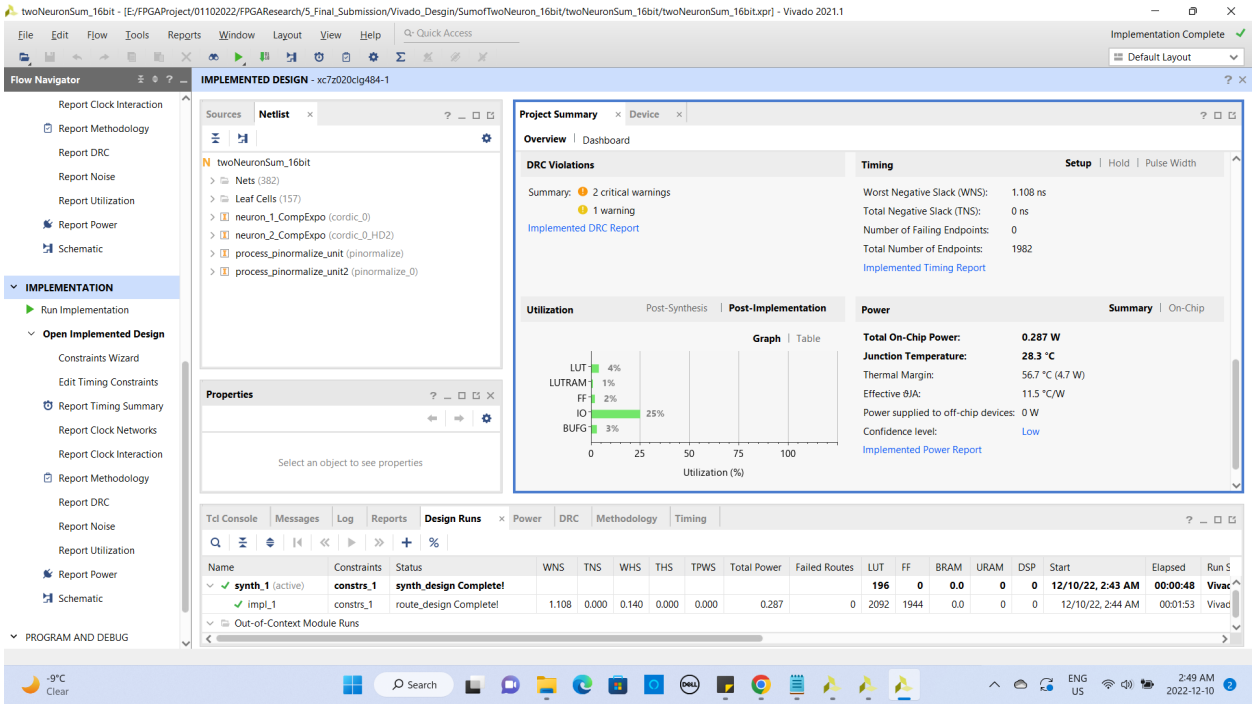
50MHz



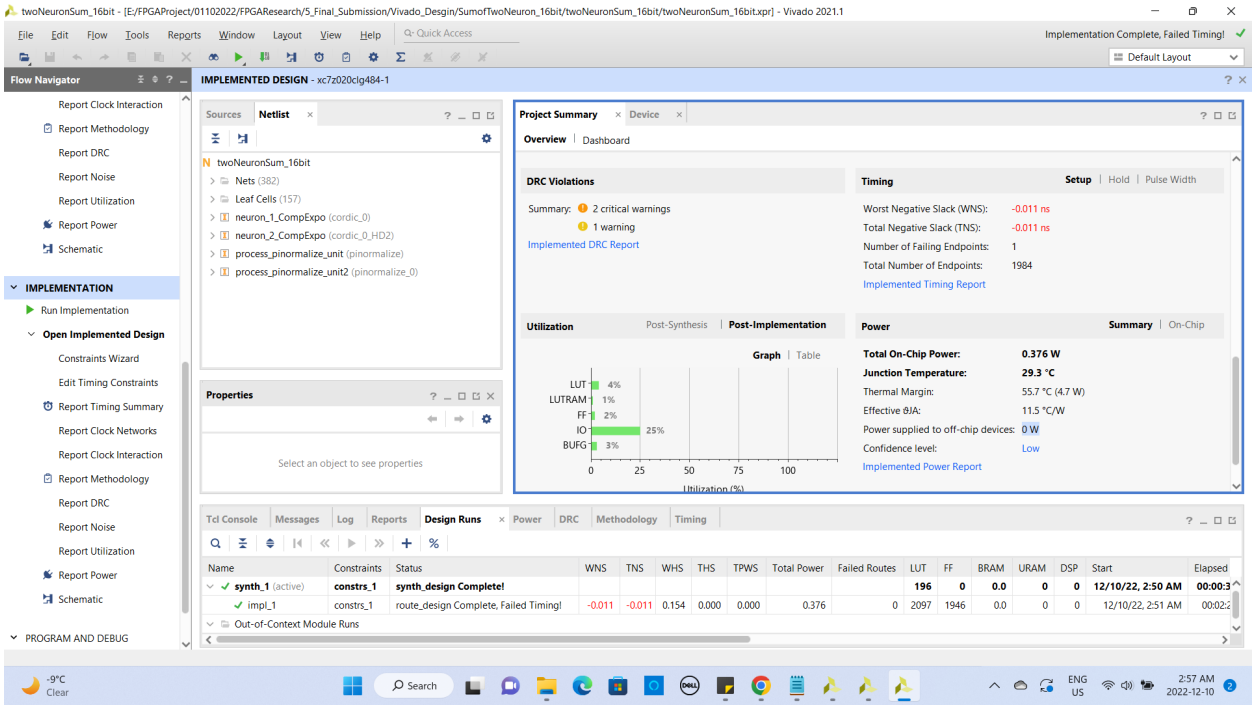
100MHz



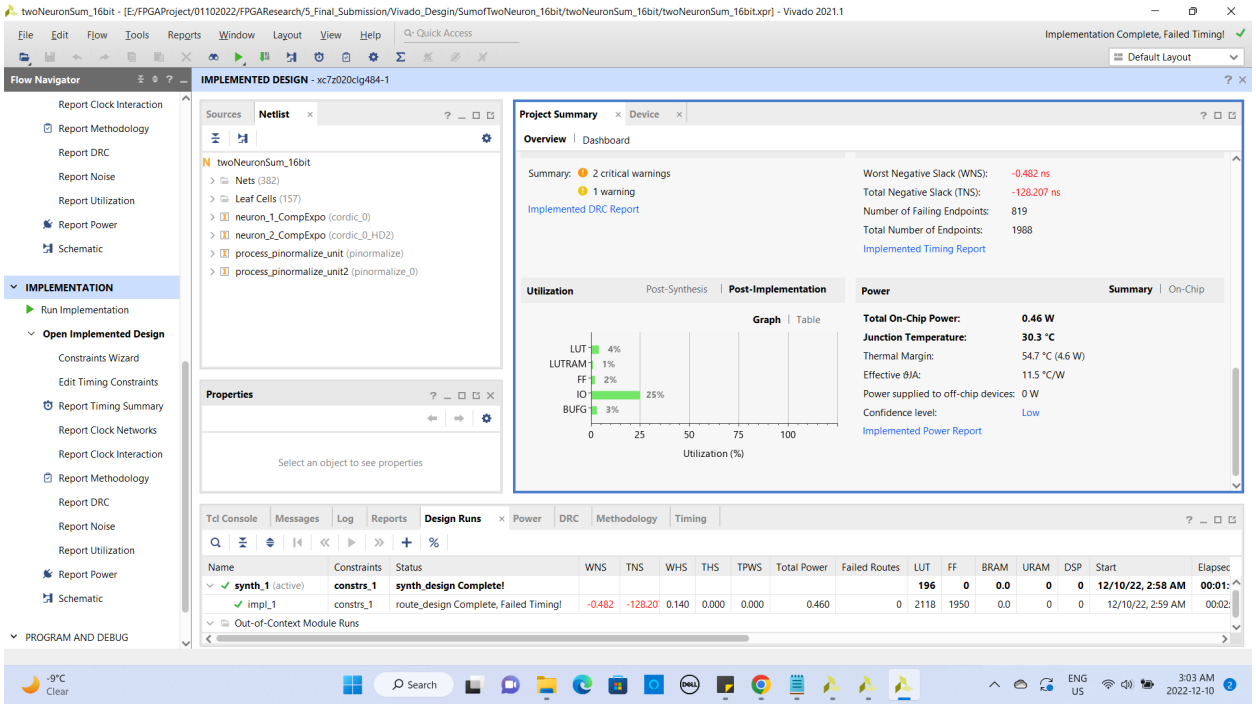
200MHz



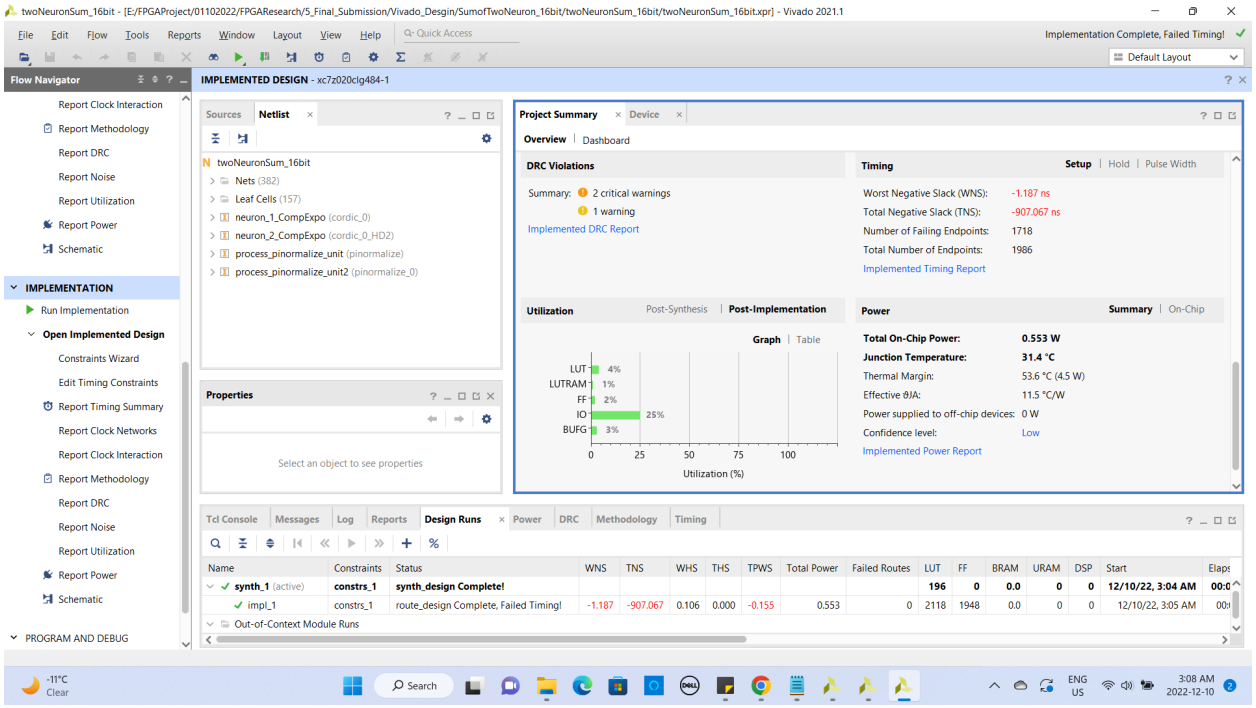
300MHz



400Mhz

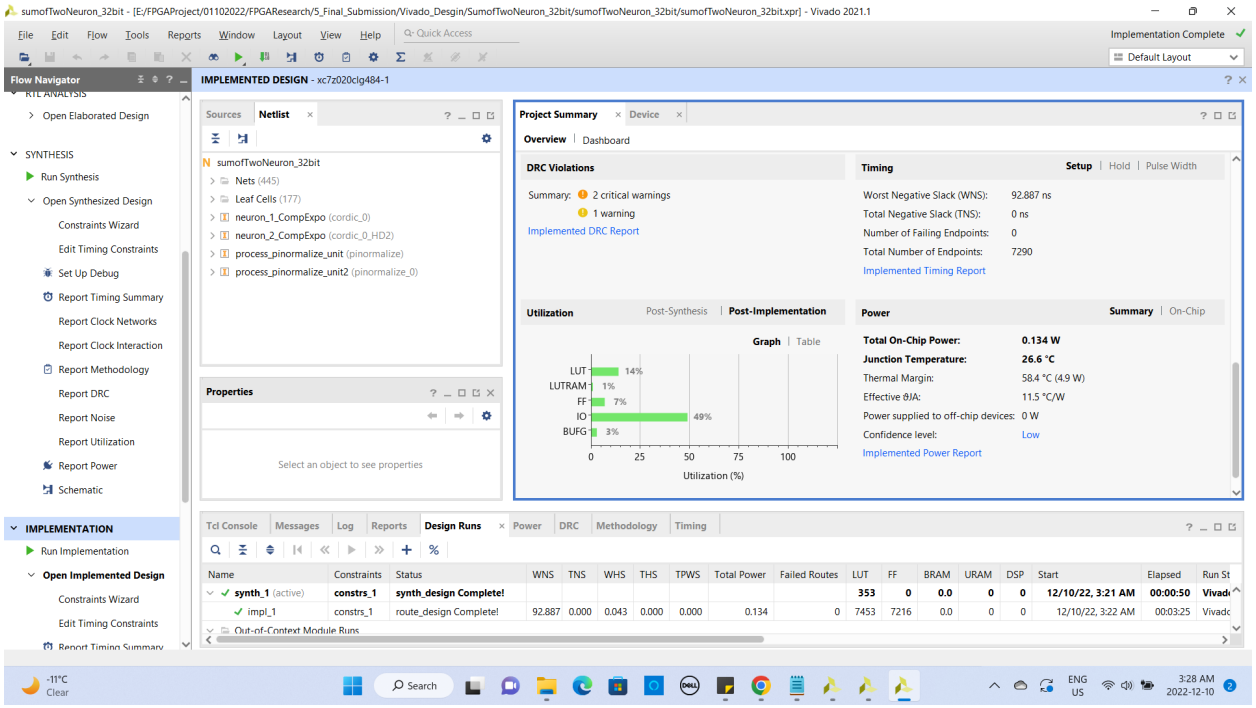


500MHz

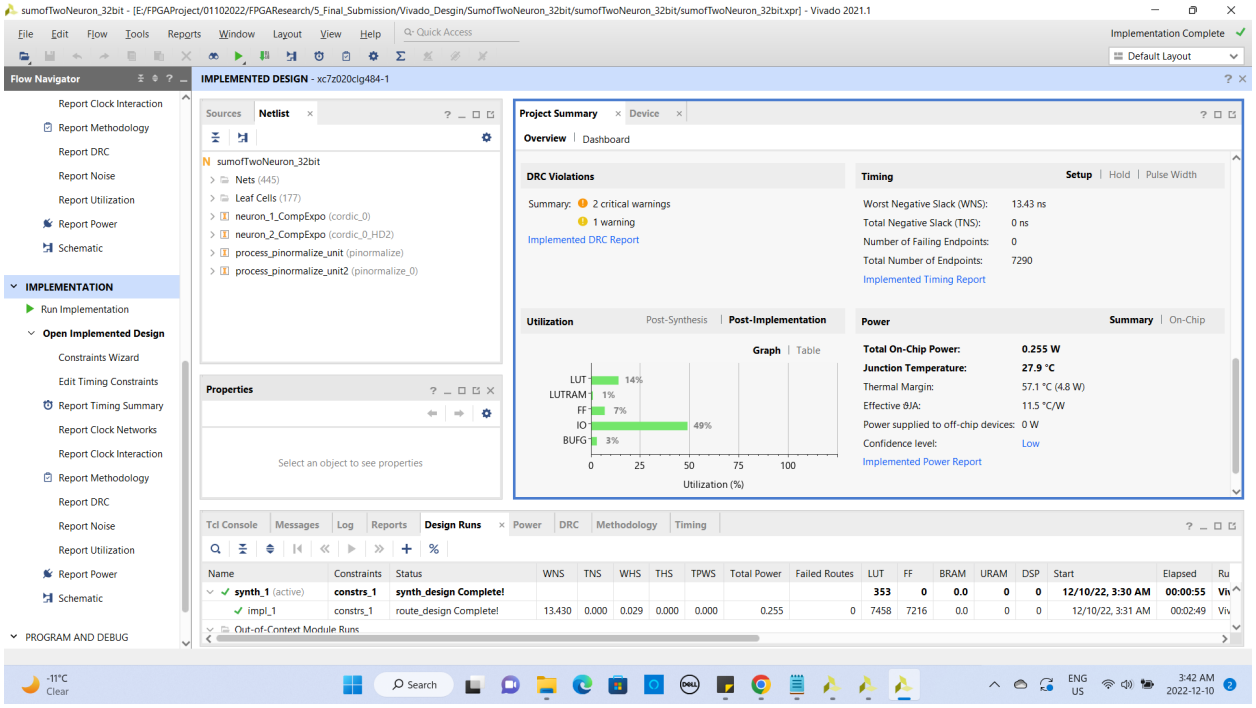


32-bit Direct VHDL

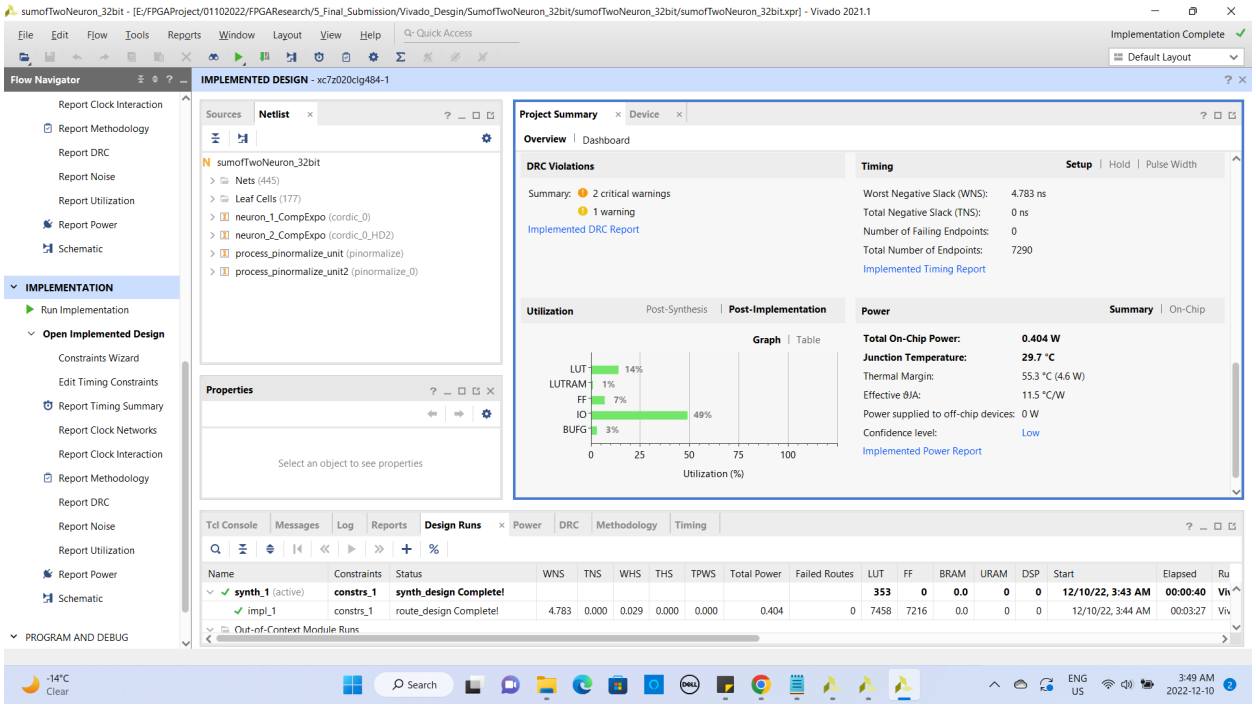
10MHz



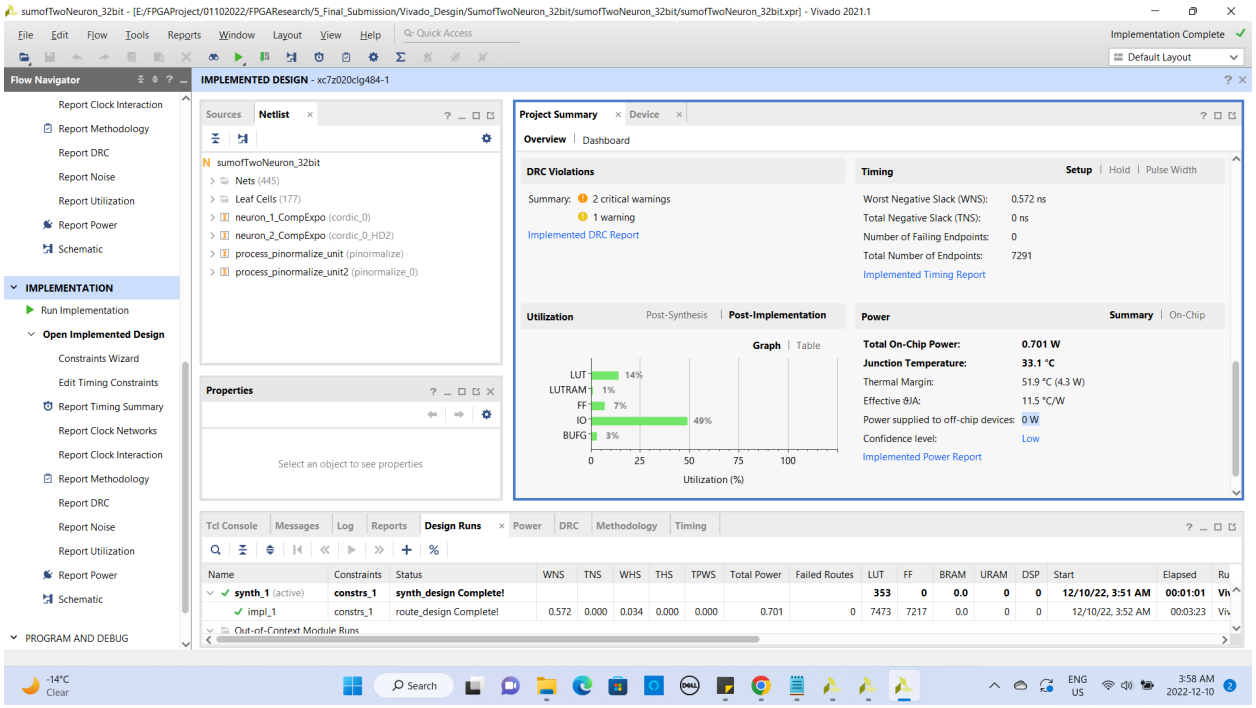
50MHz



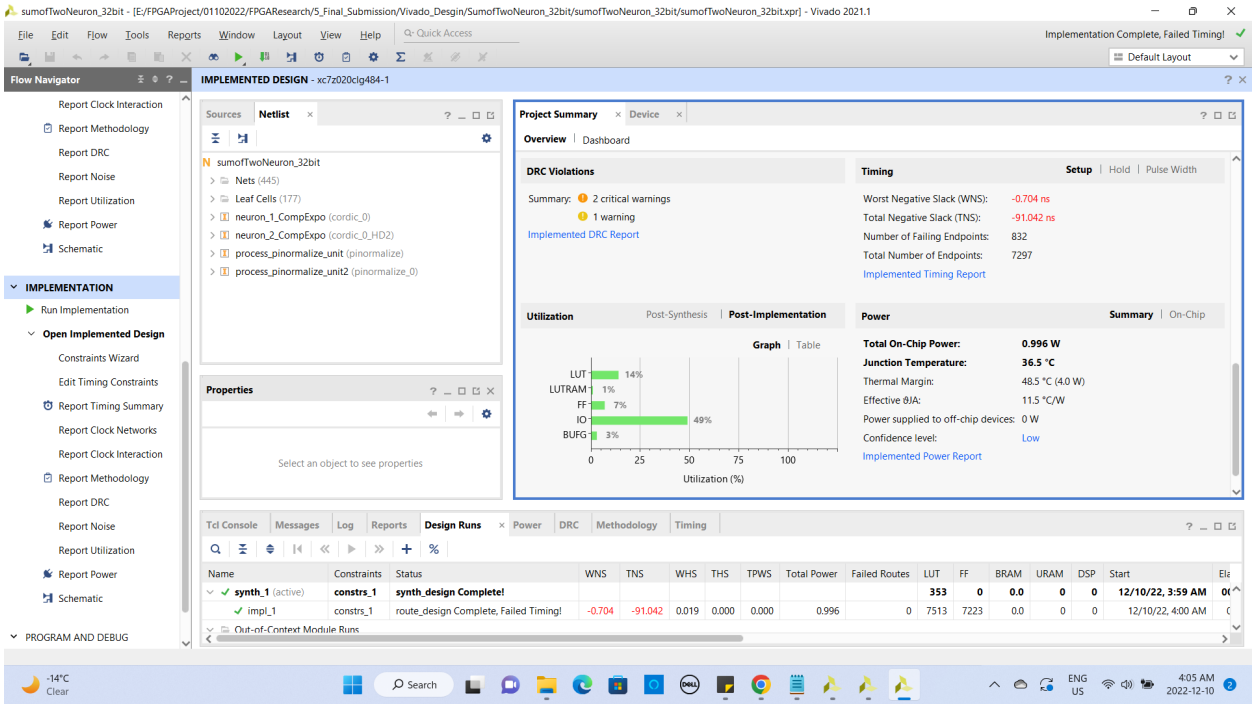
100MHz



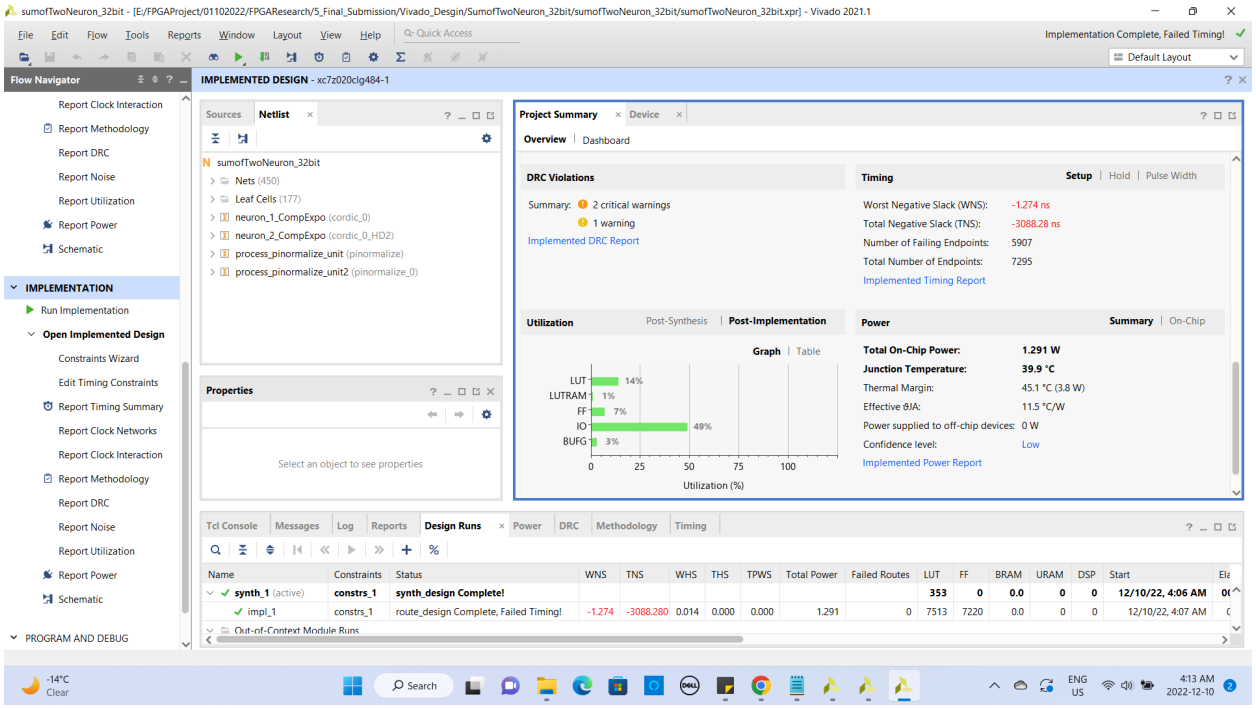
200MHz



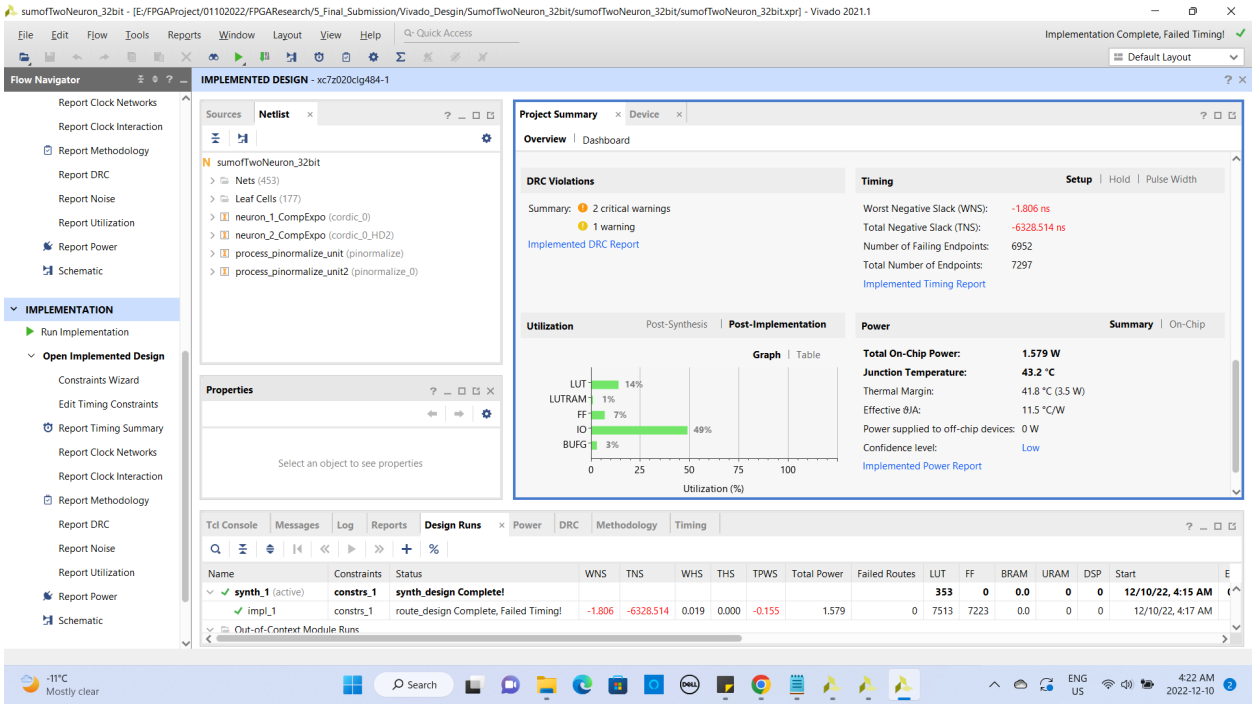
300MHz



400MHz



500Mhz


sumofTwoNeuron_32bit - [E:/FPGAProject/01102022/FPGAResearch/5_Final_Submission/Vivado_Desgin/SumofTwoNeuron_32bit/sumofTwoNeuron_32bit/sumofTwoNeuron_32bit.xpr] - Vivado 2021.1
File Edit Flow Tools Reports Window Layout View Help
Quick Access
Implementation Complete, Failed Timing!
Default Layout
Flow Navigator
Report Clock Networks
Report Clock Interaction
Report Methodology
Report DRC
Report Noise
Report Utilization
Report Power
Schematic
IMPLEMENTATION
Run Implementation
Open Implemented Design
Constraints Wizard
Edit Timing Constraints
Report Timing Summary
Report Clock Networks
Report Clock Interaction
Report Methodology
Report DRC
Report Noise
Report Utilization
Report Power
Schematic
IMPLEMENTED DESIGN - xc7z020clg484-1
Sources
Netlist
sumofTwoNeuron_32bit
Nets (453)
Leaf Cells (177)
neuron_1_CompExpo (cordic_0)
neuron_2_CompExpo (cordic_0_HD2)
process_pinormalize_unit (pinormalize)
process_pinormalize_unit2 (pinormalize_0)
Properties
Select an object to see properties
Project Summary
Device
Overview
Dashboard
DRC Violations
Summary: 2 critical warnings
1 warning
Implemented DRC Report
Timing
Setup
Hold
Pulse Width
Worst Negative Slack (WNS): -1.806 ns
Total Negative Slack (TNS): -6328.514 ns
Number of Failing Endpoints: 6952
Total Number of Endpoints: 7297
Implemented Timing Report
Utilization
Post-Synthesis
Post-Implementation
Graph
Table
LUT 14%
LUTRAM 1%
FF 7%
IO 49%
BUFG 3%
0 25 50 75 100
Utilization (%)
Power
Summary
On-Chip
Total On-Chip Power: 1.579 W
Junction Temperature: 43.2 °C
Thermal Margin: 41.8 °C (3.5 W)
Effective θJA: 11.5 °C/W
Power supplied to off-chip devices: 0 W
Confidence level: Low
Implemented Power Report
Tcl Console
Messages
Log
Reports
Design Runs
Power
DRC
Methodology
Timing
Name Constraints Status WNS TNS WHS THS TPWS Total Power Failed Routes LUT FF BRAM URAM DSP Start
synth_1 (active) constrs_1 synth_design Complete! 353 0 0.0 0 0 12/10/22, 4:15 AM
impl_1 constrs_1 route_design Complete, Failed Timing! -1.806 -6328.514 0.019 0.000 -0.155 1.579 0 7513 7223 0.0 0 0 12/10/22, 4:17 AM
Out-of-Context Module Runs
-11°C
Mostly clear
Search
ENG
US
4:22 AM
2022-12-10