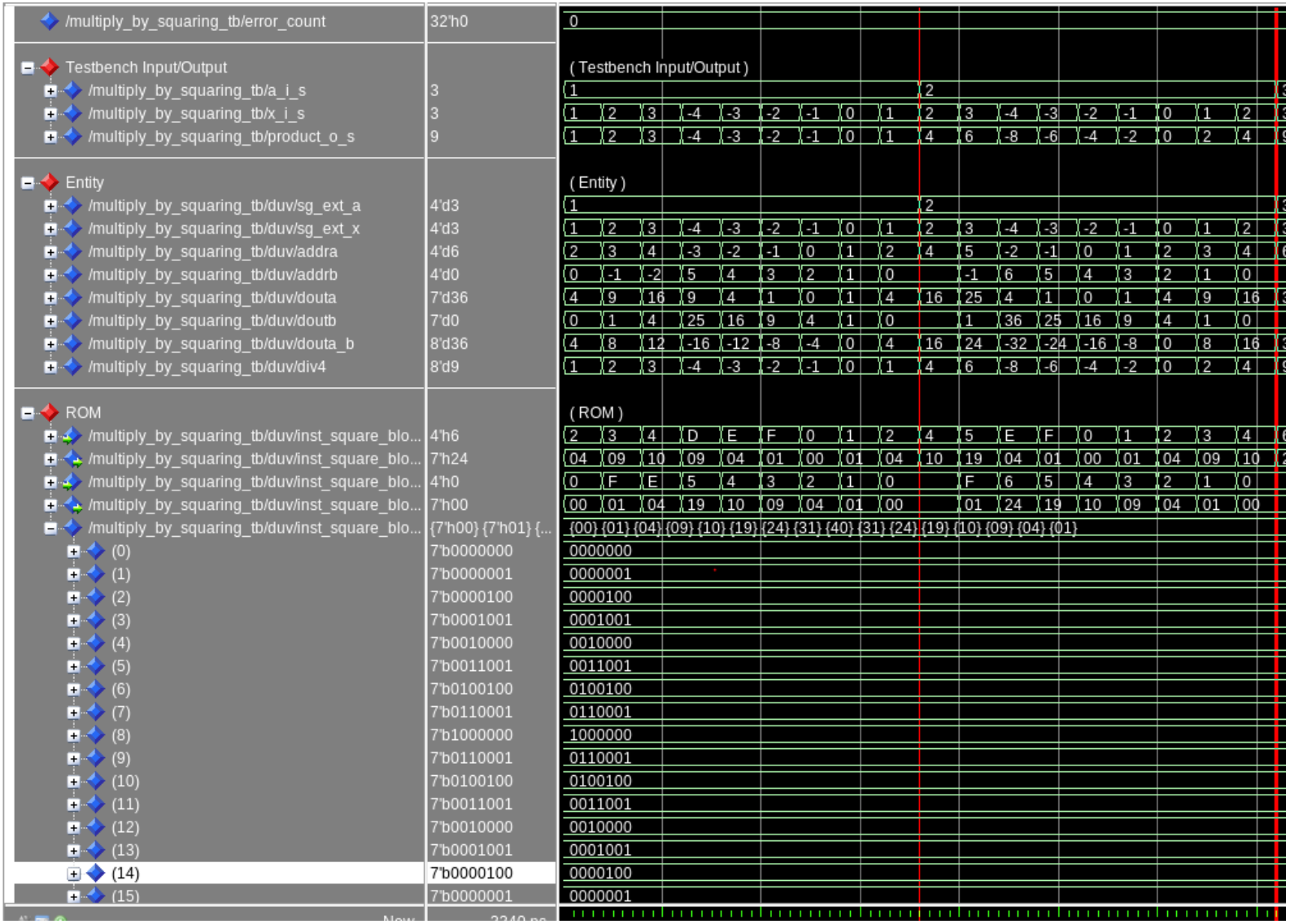
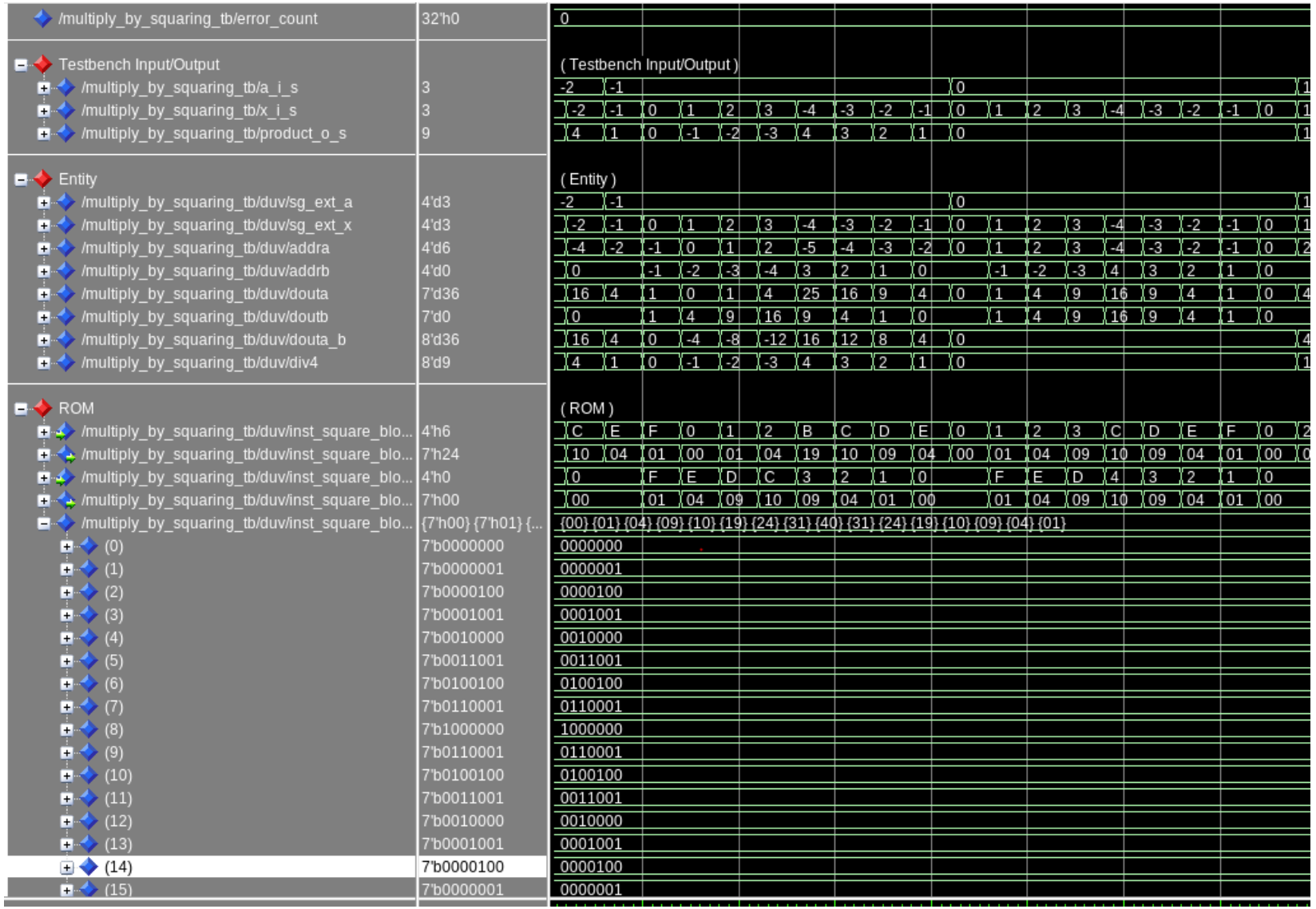
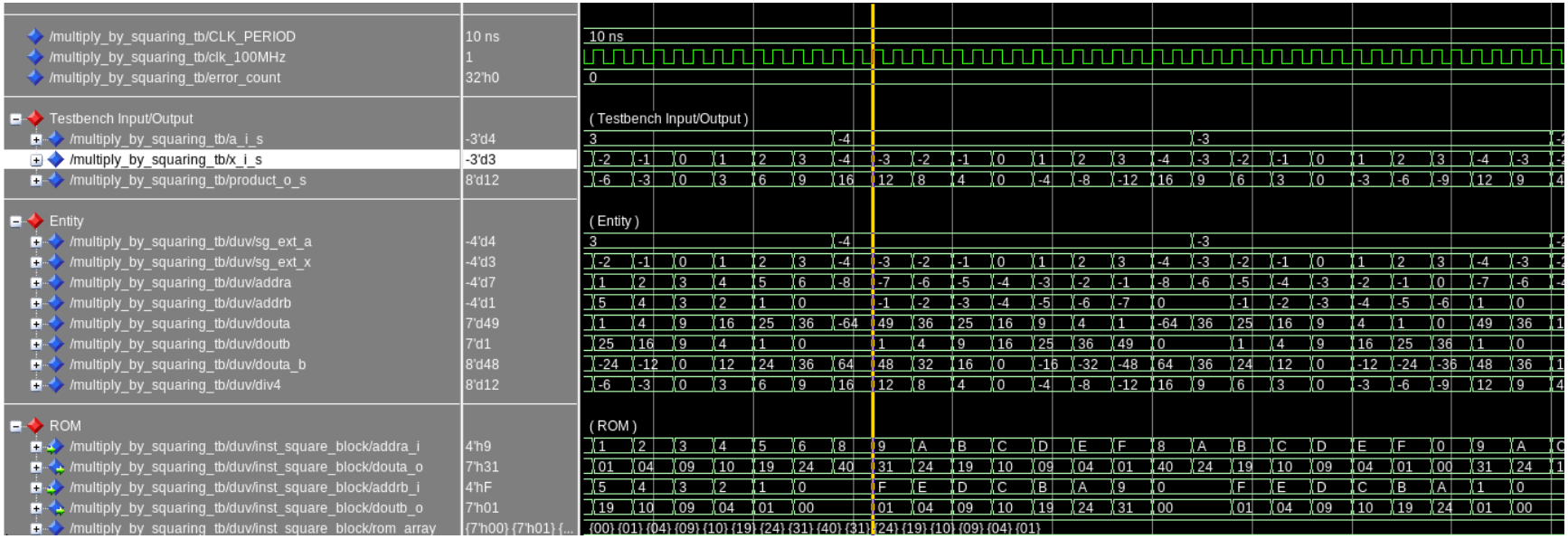
Test Case : When input a = 001 and a = 010



Test Case : When input a = 111 and a = 000



Test Case : when input a = 100 and 101



Console Output

Transcript

```
# ** Warning: NUMERIC_STD.TO_INTEGER: metavalue detected, returning 0
#    Time: 0 ns  Iteration: 1  Instance: /multiply_by_squaring_tb/duv/inst_square_block
# ** Warning: NUMERIC_STD.TO_INTEGER: metavalue detected, returning 0
#    Time: 0 ns  Iteration: 1  Instance: /multiply_by_squaring_tb/duv/inst_square_block
#
# *******
# RESULTS
# *******
#
# Simulation completed without errors
#
# ******************
# Simulation Ending
# ******************
#
# Break in Process stimuli_proc at ../tb/multiply_by_squaring_tb.vhd line 134

VSIM 2>
```

Coverage Result

```
vcover report -verbose -output final_report_verbose.txt merged_coverage.ucdb
End time: 22:49:44 on Nov 03,2022, Elapsed time: 0:00:00
Errors: 0, Warnings: 0
Reading pref.tcl

# 2020.4_2

# coverage read -dataset merged_coverage merged_coverage.ucdb
# merged_coverage.ucdb opened as coverage dataset "merged_coverage"
# coverage report -output final_report_by_srcfile.txt -srcfile=* -code {s b c e f x}
# exit
Coverage Report Summary Data by file

================================================================================
=== File: ../src/dp_rom.vhd
================================================================================
    Enabled Coverage              Bins      Hits    Misses  Coverage
    ----------------              ----      ----    ------  --------
    Statements                       2         2         0   100.00%

================================================================================
=== File: ../src/multiply_by_squaring.vhd
================================================================================
    Enabled Coverage              Bins      Hits    Misses  Coverage
    ----------------              ----      ----    ------  --------
    Statements                       7         7         0   100.00%


Total Coverage By File (code coverage only, filtered view): 100.00%
```