\*\*\* Running vivado

with args -log Mux\_2.vds -m64 -product Vivado -mode batch -messageDb vivado.pb -notrace -source Mux\_2.tcl

\*\*\*\*\*\* Vivado v2018.3 (64-bit)

\*\*\*\* SW Build 2405991 on Thu Dec 6 23:36:41 MST 2018

\*\*\*\* IP Build 2404404 on Fri Dec 7 01:43:56 MST 2018

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CRITICAL WARNING: [Common 17-741] No write access right to the local Tcl store at '/home/jinson/.Xilinx/Vivado/2018.3/XilinxTclStore'. XilinxTclStore is reverted to the installation area. If you want to use local Tcl Store, please change the access right and relaunch Vivado.

source Mux\_2.tcl -notrace

Command: synth\_design -top Mux\_2 -part xc7a100tcsg324-1

Starting synth\_design

Attempting to get a license for feature 'Synthesis' and/or device 'xc7a100t'

INFO: [Common 17-349] Got license for feature 'Synthesis' and/or device 'xc7a100t'

INFO: Launching helper process for spawning children vivado processes

INFO: Helper process launched with PID 35711

WARNING: [Synth 8-1935] empty port in module declaration [/home/jinson/vivado/Mux\_2/Mux\_2.srcs/sources\_1/new/Mux\_2.v:32]

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Starting RTL Elaboration : Time (s): cpu = 00:00:01 ; elapsed = 00:00:02 . Memory (MB): peak = 1384.352 ; gain = 0.000 ; free physical = 868 ; free virtual = 2073

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INFO: [Synth 8-6157] synthesizing module 'Mux\_2' [/home/jinson/vivado/Mux\_2/Mux\_2.srcs/sources\_1/new/Mux\_2.v:23]

WARNING: [Synth 8-308] ignoring empty port [/home/jinson/vivado/Mux\_2/Mux\_2.srcs/sources\_1/new/Mux\_2.v:33]

INFO: [Synth 8-6155] done synthesizing module 'Mux\_2' (1#1) [/home/jinson/vivado/Mux\_2/Mux\_2.srcs/sources\_1/new/Mux\_2.v:23]

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Finished RTL Elaboration : Time (s): cpu = 00:00:02 ; elapsed = 00:00:03 . Memory (MB): peak = 1384.352 ; gain = 0.000 ; free physical = 887 ; free virtual = 2092

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Report Check Netlist:

+------+------------------+-------+---------+-------+------------------+

| |Item |Errors |Warnings |Status |Description |

+------+------------------+-------+---------+-------+------------------+

|1 |multi\_driven\_nets | 0| 0|Passed |Multi driven nets |

+------+------------------+-------+---------+-------+------------------+

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Start Handling Custom Attributes

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Finished Handling Custom Attributes : Time (s): cpu = 00:00:02 ; elapsed = 00:00:03 . Memory (MB): peak = 1384.352 ; gain = 0.000 ; free physical = 888 ; free virtual = 2092

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Finished RTL Optimization Phase 1 : Time (s): cpu = 00:00:02 ; elapsed = 00:00:03 . Memory (MB): peak = 1384.352 ; gain = 0.000 ; free physical = 888 ; free virtual = 2092

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INFO: [Device 21-403] Loading part xc7a100tcsg324-1

INFO: [Project 1-570] Preparing netlist for logic optimization

Processing XDC Constraints

Initializing timing engine

Parsing XDC File [/home/jinson/vivado/Mux\_2/Mux\_2.srcs/constrs\_1/new/Mux\_21.xdc]

Finished Parsing XDC File [/home/jinson/vivado/Mux\_2/Mux\_2.srcs/constrs\_1/new/Mux\_21.xdc]

Completed Processing XDC Constraints

Netlist sorting complete. Time (s): cpu = 00:00:00 ; elapsed = 00:00:00 . Memory (MB): peak = 1629.121 ; gain = 0.000 ; free physical = 634 ; free virtual = 1838

INFO: [Project 1-111] Unisim Transformation Summary:

No Unisim elements were transformed.

Netlist sorting complete. Time (s): cpu = 00:00:00 ; elapsed = 00:00:00 . Memory (MB): peak = 1629.121 ; gain = 0.000 ; free physical = 634 ; free virtual = 1838

WARNING: [Constraints 18-5210] No constraints selected for write.

Resolution: This message can indicate that there are no constraints for the design, or it can indicate that the used\_in flags are set such that the constraints are ignored. This later case is used when running synth\_design to not write synthesis constraints to the resulting checkpoint. Instead, project constraints are read when the synthesized design is opened.

Constraint Validation Runtime : Time (s): cpu = 00:00:00.03 ; elapsed = 00:00:00.07 . Memory (MB): peak = 1629.121 ; gain = 0.000 ; free physical = 633 ; free virtual = 1838

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Finished Constraint Validation : Time (s): cpu = 00:00:06 ; elapsed = 00:00:08 . Memory (MB): peak = 1629.121 ; gain = 244.770 ; free physical = 701 ; free virtual = 1905

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Start Loading Part and Timing Information

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Loading part: xc7a100tcsg324-1

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Finished Loading Part and Timing Information : Time (s): cpu = 00:00:06 ; elapsed = 00:00:08 . Memory (MB): peak = 1629.121 ; gain = 244.770 ; free physical = 701 ; free virtual = 1905

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Start Applying 'set\_property' XDC Constraints

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Finished applying 'set\_property' XDC Constraints : Time (s): cpu = 00:00:06 ; elapsed = 00:00:08 . Memory (MB): peak = 1629.121 ; gain = 244.770 ; free physical = 702 ; free virtual = 1907

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Finished RTL Optimization Phase 2 : Time (s): cpu = 00:00:06 ; elapsed = 00:00:08 . Memory (MB): peak = 1629.121 ; gain = 244.770 ; free physical = 700 ; free virtual = 1905

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Report RTL Partitions:

+-+--------------+------------+----------+

| |RTL Partition |Replication |Instances |

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Start RTL Component Statistics

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Detailed RTL Component Info :

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Finished RTL Component Statistics

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Start RTL Hierarchical Component Statistics

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Hierarchical RTL Component report

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Finished RTL Hierarchical Component Statistics

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Start Part Resource Summary

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Part Resources:

DSPs: 240 (col length:80)

BRAMs: 270 (col length: RAMB18 80 RAMB36 40)

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Finished Part Resource Summary

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Start Cross Boundary and Area Optimization

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Warning: Parallel synthesis criteria is not met

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Finished Cross Boundary and Area Optimization : Time (s): cpu = 00:00:07 ; elapsed = 00:00:08 . Memory (MB): peak = 1637.129 ; gain = 252.777 ; free physical = 690 ; free virtual = 1896

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Report RTL Partitions:

+-+--------------+------------+----------+

| |RTL Partition |Replication |Instances |

+-+--------------+------------+----------+

+-+--------------+------------+----------+

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Start Applying XDC Timing Constraints

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Finished Applying XDC Timing Constraints : Time (s): cpu = 00:00:11 ; elapsed = 00:00:13 . Memory (MB): peak = 1681.129 ; gain = 296.777 ; free physical = 567 ; free virtual = 1773

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Start Timing Optimization

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Finished Timing Optimization : Time (s): cpu = 00:00:11 ; elapsed = 00:00:13 . Memory (MB): peak = 1681.129 ; gain = 296.777 ; free physical = 567 ; free virtual = 1773

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Report RTL Partitions:

+-+--------------+------------+----------+

| |RTL Partition |Replication |Instances |

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Start Technology Mapping

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Finished Technology Mapping : Time (s): cpu = 00:00:11 ; elapsed = 00:00:13 . Memory (MB): peak = 1691.145 ; gain = 306.793 ; free physical = 566 ; free virtual = 1773

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Report RTL Partitions:

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| |RTL Partition |Replication |Instances |

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Start IO Insertion

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Start Flattening Before IO Insertion

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---------------------------------------------------------------------------------

Finished Flattening Before IO Insertion

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Start Final Netlist Cleanup

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Finished Final Netlist Cleanup

---------------------------------------------------------------------------------

---------------------------------------------------------------------------------

Finished IO Insertion : Time (s): cpu = 00:00:11 ; elapsed = 00:00:13 . Memory (MB): peak = 1691.145 ; gain = 306.793 ; free physical = 566 ; free virtual = 1773

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Report Check Netlist:

+------+------------------+-------+---------+-------+------------------+

| |Item |Errors |Warnings |Status |Description |

+------+------------------+-------+---------+-------+------------------+

|1 |multi\_driven\_nets | 0| 0|Passed |Multi driven nets |

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Start Renaming Generated Instances

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Finished Renaming Generated Instances : Time (s): cpu = 00:00:11 ; elapsed = 00:00:13 . Memory (MB): peak = 1691.145 ; gain = 306.793 ; free physical = 566 ; free virtual = 1773

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Report RTL Partitions:

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| |RTL Partition |Replication |Instances |

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Start Rebuilding User Hierarchy

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Finished Rebuilding User Hierarchy : Time (s): cpu = 00:00:11 ; elapsed = 00:00:13 . Memory (MB): peak = 1691.145 ; gain = 306.793 ; free physical = 566 ; free virtual = 1773

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Start Renaming Generated Ports

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Finished Renaming Generated Ports : Time (s): cpu = 00:00:11 ; elapsed = 00:00:13 . Memory (MB): peak = 1691.145 ; gain = 306.793 ; free physical = 566 ; free virtual = 1773

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Start Handling Custom Attributes

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Finished Handling Custom Attributes : Time (s): cpu = 00:00:11 ; elapsed = 00:00:13 . Memory (MB): peak = 1691.145 ; gain = 306.793 ; free physical = 566 ; free virtual = 1773

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Start Renaming Generated Nets

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Finished Renaming Generated Nets : Time (s): cpu = 00:00:11 ; elapsed = 00:00:13 . Memory (MB): peak = 1691.145 ; gain = 306.793 ; free physical = 566 ; free virtual = 1773

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Start Writing Synthesis Report

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Report BlackBoxes:

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| |BlackBox name |Instances |

+-+--------------+----------+

+-+--------------+----------+

Report Cell Usage:

+------+-----+------+

| |Cell |Count |

+------+-----+------+

|1 |LUT6 | 2|

|2 |IBUF | 8|

|3 |OBUF | 1|

+------+-----+------+

Report Instance Areas:

+------+---------+-------+------+

| |Instance |Module |Cells |

+------+---------+-------+------+

|1 |top | | 11|

+------+---------+-------+------+

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Finished Writing Synthesis Report : Time (s): cpu = 00:00:11 ; elapsed = 00:00:13 . Memory (MB): peak = 1691.145 ; gain = 306.793 ; free physical = 566 ; free virtual = 1773

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Synthesis finished with 0 errors, 0 critical warnings and 0 warnings.

Synthesis Optimization Runtime : Time (s): cpu = 00:00:09 ; elapsed = 00:00:10 . Memory (MB): peak = 1691.145 ; gain = 62.023 ; free physical = 621 ; free virtual = 1827

Synthesis Optimization Complete : Time (s): cpu = 00:00:12 ; elapsed = 00:00:13 . Memory (MB): peak = 1691.152 ; gain = 306.793 ; free physical = 621 ; free virtual = 1827

INFO: [Project 1-571] Translating synthesized netlist

INFO: [Project 1-570] Preparing netlist for logic optimization

INFO: [Opt 31-138] Pushed 0 inverter(s) to 0 load pin(s).

Netlist sorting complete. Time (s): cpu = 00:00:00 ; elapsed = 00:00:00 . Memory (MB): peak = 1698.145 ; gain = 0.000 ; free physical = 561 ; free virtual = 1768

INFO: [Project 1-111] Unisim Transformation Summary:

No Unisim elements were transformed.

INFO: [Common 17-83] Releasing license: Synthesis

11 Infos, 3 Warnings, 0 Critical Warnings and 0 Errors encountered.

synth\_design completed successfully

synth\_design: Time (s): cpu = 00:00:13 ; elapsed = 00:00:14 . Memory (MB): peak = 1698.145 ; gain = 313.867 ; free physical = 610 ; free virtual = 1817

Netlist sorting complete. Time (s): cpu = 00:00:00 ; elapsed = 00:00:00 . Memory (MB): peak = 1698.145 ; gain = 0.000 ; free physical = 610 ; free virtual = 1817

WARNING: [Constraints 18-5210] No constraints selected for write.

Resolution: This message can indicate that there are no constraints for the design, or it can indicate that the used\_in flags are set such that the constraints are ignored. This later case is used when running synth\_design to not write synthesis constraints to the resulting checkpoint. Instead, project constraints are read when the synthesized design is opened.

INFO: [Common 17-1381] The checkpoint '/home/jinson/vivado/Mux\_2/Mux\_2.runs/synth\_1/Mux\_2.dcp' has been generated.

INFO: [runtcl-4] Executing : report\_utilization -file Mux\_2\_utilization\_synth.rpt -pb Mux\_2\_utilization\_synth.pb

INFO: [Common 17-206] Exiting Vivado at Thu Apr 11 19:46:06 2019...