\*\*\* Running vivado

with args -log Lab08\_Keyboard.vds -m64 -product Vivado -mode batch -messageDb vivado.pb -notrace -source Lab08\_Keyboard.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 Lab08\_Keyboard.tcl -notrace

Command: synth\_design -top Lab08\_Keyboard -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 29869

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Starting RTL Elaboration : Time (s): cpu = 00:00:02 ; elapsed = 00:00:02 . Memory (MB): peak = 1380.348 ; gain = 0.000 ; free physical = 1094 ; free virtual = 1946

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INFO: [Synth 8-6157] synthesizing module 'Lab08\_Keyboard' [/home/jinson/vivado/Lab08\_Keyboard/Lab08\_Keyboard.srcs/sources\_1/new/Lab08\_Keyboard.sv:23]

INFO: [Synth 8-6155] done synthesizing module 'Lab08\_Keyboard' (1#1) [/home/jinson/vivado/Lab08\_Keyboard/Lab08\_Keyboard.srcs/sources\_1/new/Lab08\_Keyboard.sv:23]

WARNING: [Synth 8-3917] design Lab08\_Keyboard has port an[7] driven by constant 1

WARNING: [Synth 8-3917] design Lab08\_Keyboard has port an[6] driven by constant 1

WARNING: [Synth 8-3917] design Lab08\_Keyboard has port an[5] driven by constant 1

WARNING: [Synth 8-3917] design Lab08\_Keyboard has port an[4] driven by constant 1

WARNING: [Synth 8-3917] design Lab08\_Keyboard has port an[3] driven by constant 1

WARNING: [Synth 8-3917] design Lab08\_Keyboard has port an[2] driven by constant 1

WARNING: [Synth 8-3917] design Lab08\_Keyboard has port an[1] driven by constant 1

WARNING: [Synth 8-3917] design Lab08\_Keyboard has port an[0] driven by constant 0

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Finished RTL Elaboration : Time (s): cpu = 00:00:02 ; elapsed = 00:00:03 . Memory (MB): peak = 1386.273 ; gain = 5.926 ; free physical = 1105 ; free virtual = 1959

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

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 = 1386.273 ; gain = 5.926 ; free physical = 1104 ; free virtual = 1958

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Finished RTL Optimization Phase 1 : Time (s): cpu = 00:00:02 ; elapsed = 00:00:03 . Memory (MB): peak = 1386.273 ; gain = 5.926 ; free physical = 1104 ; free virtual = 1958

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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/Lab08\_Keyboard/Lab08\_Keyboard.srcs/constrs\_1/new/Lab08\_Keyboard.xdc]

WARNING: [Vivado 12-584] No ports matched 'a'. [/home/jinson/vivado/Lab08\_Keyboard/Lab08\_Keyboard.srcs/constrs\_1/new/Lab08\_Keyboard.xdc:16]

CRITICAL WARNING: [Common 17-55] 'set\_property' expects at least one object. [/home/jinson/vivado/Lab08\_Keyboard/Lab08\_Keyboard.srcs/constrs\_1/new/Lab08\_Keyboard.xdc:16]

Resolution: If [get\_<value>] was used to populate the object, check to make sure this command returns at least one valid object.

WARNING: [Vivado 12-584] No ports matched 'b'. [/home/jinson/vivado/Lab08\_Keyboard/Lab08\_Keyboard.srcs/constrs\_1/new/Lab08\_Keyboard.xdc:17]

CRITICAL WARNING: [Common 17-55] 'set\_property' expects at least one object. [/home/jinson/vivado/Lab08\_Keyboard/Lab08\_Keyboard.srcs/constrs\_1/new/Lab08\_Keyboard.xdc:17]

Resolution: If [get\_<value>] was used to populate the object, check to make sure this command returns at least one valid object.

WARNING: [Vivado 12-584] No ports matched 'c'. [/home/jinson/vivado/Lab08\_Keyboard/Lab08\_Keyboard.srcs/constrs\_1/new/Lab08\_Keyboard.xdc:18]

CRITICAL WARNING: [Common 17-55] 'set\_property' expects at least one object. [/home/jinson/vivado/Lab08\_Keyboard/Lab08\_Keyboard.srcs/constrs\_1/new/Lab08\_Keyboard.xdc:18]

Resolution: If [get\_<value>] was used to populate the object, check to make sure this command returns at least one valid object.

WARNING: [Vivado 12-584] No ports matched 'd'. [/home/jinson/vivado/Lab08\_Keyboard/Lab08\_Keyboard.srcs/constrs\_1/new/Lab08\_Keyboard.xdc:20]

CRITICAL WARNING: [Common 17-55] 'set\_property' expects at least one object. [/home/jinson/vivado/Lab08\_Keyboard/Lab08\_Keyboard.srcs/constrs\_1/new/Lab08\_Keyboard.xdc:20]

Resolution: If [get\_<value>] was used to populate the object, check to make sure this command returns at least one valid object.

WARNING: [Vivado 12-584] No ports matched 'dp'. [/home/jinson/vivado/Lab08\_Keyboard/Lab08\_Keyboard.srcs/constrs\_1/new/Lab08\_Keyboard.xdc:21]

CRITICAL WARNING: [Common 17-55] 'set\_property' expects at least one object. [/home/jinson/vivado/Lab08\_Keyboard/Lab08\_Keyboard.srcs/constrs\_1/new/Lab08\_Keyboard.xdc:21]

Resolution: If [get\_<value>] was used to populate the object, check to make sure this command returns at least one valid object.

WARNING: [Vivado 12-584] No ports matched 'e'. [/home/jinson/vivado/Lab08\_Keyboard/Lab08\_Keyboard.srcs/constrs\_1/new/Lab08\_Keyboard.xdc:22]

CRITICAL WARNING: [Common 17-55] 'set\_property' expects at least one object. [/home/jinson/vivado/Lab08\_Keyboard/Lab08\_Keyboard.srcs/constrs\_1/new/Lab08\_Keyboard.xdc:22]

Resolution: If [get\_<value>] was used to populate the object, check to make sure this command returns at least one valid object.

WARNING: [Vivado 12-584] No ports matched 'f'. [/home/jinson/vivado/Lab08\_Keyboard/Lab08\_Keyboard.srcs/constrs\_1/new/Lab08\_Keyboard.xdc:23]

CRITICAL WARNING: [Common 17-55] 'set\_property' expects at least one object. [/home/jinson/vivado/Lab08\_Keyboard/Lab08\_Keyboard.srcs/constrs\_1/new/Lab08\_Keyboard.xdc:23]

Resolution: If [get\_<value>] was used to populate the object, check to make sure this command returns at least one valid object.

WARNING: [Vivado 12-584] No ports matched 'g'. [/home/jinson/vivado/Lab08\_Keyboard/Lab08\_Keyboard.srcs/constrs\_1/new/Lab08\_Keyboard.xdc:24]

CRITICAL WARNING: [Common 17-55] 'set\_property' expects at least one object. [/home/jinson/vivado/Lab08\_Keyboard/Lab08\_Keyboard.srcs/constrs\_1/new/Lab08\_Keyboard.xdc:24]

Resolution: If [get\_<value>] was used to populate the object, check to make sure this command returns at least one valid object.

WARNING: [Vivado 12-584] No ports matched 'a'. [/home/jinson/vivado/Lab08\_Keyboard/Lab08\_Keyboard.srcs/constrs\_1/new/Lab08\_Keyboard.xdc:40]

CRITICAL WARNING: [Common 17-55] 'set\_property' expects at least one object. [/home/jinson/vivado/Lab08\_Keyboard/Lab08\_Keyboard.srcs/constrs\_1/new/Lab08\_Keyboard.xdc:40]

Resolution: If [get\_<value>] was used to populate the object, check to make sure this command returns at least one valid object.

WARNING: [Vivado 12-584] No ports matched 'b'. [/home/jinson/vivado/Lab08\_Keyboard/Lab08\_Keyboard.srcs/constrs\_1/new/Lab08\_Keyboard.xdc:41]

CRITICAL WARNING: [Common 17-55] 'set\_property' expects at least one object. [/home/jinson/vivado/Lab08\_Keyboard/Lab08\_Keyboard.srcs/constrs\_1/new/Lab08\_Keyboard.xdc:41]

Resolution: If [get\_<value>] was used to populate the object, check to make sure this command returns at least one valid object.

WARNING: [Vivado 12-584] No ports matched 'c'. [/home/jinson/vivado/Lab08\_Keyboard/Lab08\_Keyboard.srcs/constrs\_1/new/Lab08\_Keyboard.xdc:42]

CRITICAL WARNING: [Common 17-55] 'set\_property' expects at least one object. [/home/jinson/vivado/Lab08\_Keyboard/Lab08\_Keyboard.srcs/constrs\_1/new/Lab08\_Keyboard.xdc:42]

Resolution: If [get\_<value>] was used to populate the object, check to make sure this command returns at least one valid object.

WARNING: [Vivado 12-584] No ports matched 'd'. [/home/jinson/vivado/Lab08\_Keyboard/Lab08\_Keyboard.srcs/constrs\_1/new/Lab08\_Keyboard.xdc:43]

CRITICAL WARNING: [Common 17-55] 'set\_property' expects at least one object. [/home/jinson/vivado/Lab08\_Keyboard/Lab08\_Keyboard.srcs/constrs\_1/new/Lab08\_Keyboard.xdc:43]

Resolution: If [get\_<value>] was used to populate the object, check to make sure this command returns at least one valid object.

WARNING: [Vivado 12-584] No ports matched 'dp'. [/home/jinson/vivado/Lab08\_Keyboard/Lab08\_Keyboard.srcs/constrs\_1/new/Lab08\_Keyboard.xdc:44]

CRITICAL WARNING: [Common 17-55] 'set\_property' expects at least one object. [/home/jinson/vivado/Lab08\_Keyboard/Lab08\_Keyboard.srcs/constrs\_1/new/Lab08\_Keyboard.xdc:44]

Resolution: If [get\_<value>] was used to populate the object, check to make sure this command returns at least one valid object.

WARNING: [Vivado 12-584] No ports matched 'a'. [/home/jinson/vivado/Lab08\_Keyboard/Lab08\_Keyboard.srcs/constrs\_1/new/Lab08\_Keyboard.xdc:60]

CRITICAL WARNING: [Common 17-55] 'set\_property' expects at least one object. [/home/jinson/vivado/Lab08\_Keyboard/Lab08\_Keyboard.srcs/constrs\_1/new/Lab08\_Keyboard.xdc:60]

Resolution: If [get\_<value>] was used to populate the object, check to make sure this command returns at least one valid object.

WARNING: [Vivado 12-584] No ports matched 'b'. [/home/jinson/vivado/Lab08\_Keyboard/Lab08\_Keyboard.srcs/constrs\_1/new/Lab08\_Keyboard.xdc:61]

CRITICAL WARNING: [Common 17-55] 'set\_property' expects at least one object. [/home/jinson/vivado/Lab08\_Keyboard/Lab08\_Keyboard.srcs/constrs\_1/new/Lab08\_Keyboard.xdc:61]

Resolution: If [get\_<value>] was used to populate the object, check to make sure this command returns at least one valid object.

WARNING: [Vivado 12-584] No ports matched 'c'. [/home/jinson/vivado/Lab08\_Keyboard/Lab08\_Keyboard.srcs/constrs\_1/new/Lab08\_Keyboard.xdc:62]

CRITICAL WARNING: [Common 17-55] 'set\_property' expects at least one object. [/home/jinson/vivado/Lab08\_Keyboard/Lab08\_Keyboard.srcs/constrs\_1/new/Lab08\_Keyboard.xdc:62]

Resolution: If [get\_<value>] was used to populate the object, check to make sure this command returns at least one valid object.

WARNING: [Vivado 12-584] No ports matched 'd'. [/home/jinson/vivado/Lab08\_Keyboard/Lab08\_Keyboard.srcs/constrs\_1/new/Lab08\_Keyboard.xdc:63]

CRITICAL WARNING: [Common 17-55] 'set\_property' expects at least one object. [/home/jinson/vivado/Lab08\_Keyboard/Lab08\_Keyboard.srcs/constrs\_1/new/Lab08\_Keyboard.xdc:63]

Resolution: If [get\_<value>] was used to populate the object, check to make sure this command returns at least one valid object.

WARNING: [Vivado 12-584] No ports matched 'dp'. [/home/jinson/vivado/Lab08\_Keyboard/Lab08\_Keyboard.srcs/constrs\_1/new/Lab08\_Keyboard.xdc:64]

CRITICAL WARNING: [Common 17-55] 'set\_property' expects at least one object. [/home/jinson/vivado/Lab08\_Keyboard/Lab08\_Keyboard.srcs/constrs\_1/new/Lab08\_Keyboard.xdc:64]

Resolution: If [get\_<value>] was used to populate the object, check to make sure this command returns at least one valid object.

WARNING: [Vivado 12-584] No ports matched 'a'. [/home/jinson/vivado/Lab08\_Keyboard/Lab08\_Keyboard.srcs/constrs\_1/new/Lab08\_Keyboard.xdc:81]

CRITICAL WARNING: [Common 17-55] 'set\_property' expects at least one object. [/home/jinson/vivado/Lab08\_Keyboard/Lab08\_Keyboard.srcs/constrs\_1/new/Lab08\_Keyboard.xdc:81]

Resolution: If [get\_<value>] was used to populate the object, check to make sure this command returns at least one valid object.

WARNING: [Vivado 12-584] No ports matched 'b'. [/home/jinson/vivado/Lab08\_Keyboard/Lab08\_Keyboard.srcs/constrs\_1/new/Lab08\_Keyboard.xdc:82]

CRITICAL WARNING: [Common 17-55] 'set\_property' expects at least one object. [/home/jinson/vivado/Lab08\_Keyboard/Lab08\_Keyboard.srcs/constrs\_1/new/Lab08\_Keyboard.xdc:82]

Resolution: If [get\_<value>] was used to populate the object, check to make sure this command returns at least one valid object.

WARNING: [Vivado 12-584] No ports matched 'c'. [/home/jinson/vivado/Lab08\_Keyboard/Lab08\_Keyboard.srcs/constrs\_1/new/Lab08\_Keyboard.xdc:83]

CRITICAL WARNING: [Common 17-55] 'set\_property' expects at least one object. [/home/jinson/vivado/Lab08\_Keyboard/Lab08\_Keyboard.srcs/constrs\_1/new/Lab08\_Keyboard.xdc:83]

Resolution: If [get\_<value>] was used to populate the object, check to make sure this command returns at least one valid object.

WARNING: [Vivado 12-584] No ports matched 'd'. [/home/jinson/vivado/Lab08\_Keyboard/Lab08\_Keyboard.srcs/constrs\_1/new/Lab08\_Keyboard.xdc:85]

CRITICAL WARNING: [Common 17-55] 'set\_property' expects at least one object. [/home/jinson/vivado/Lab08\_Keyboard/Lab08\_Keyboard.srcs/constrs\_1/new/Lab08\_Keyboard.xdc:85]

Resolution: If [get\_<value>] was used to populate the object, check to make sure this command returns at least one valid object.

WARNING: [Vivado 12-584] No ports matched 'dp'. [/home/jinson/vivado/Lab08\_Keyboard/Lab08\_Keyboard.srcs/constrs\_1/new/Lab08\_Keyboard.xdc:86]

CRITICAL WARNING: [Common 17-55] 'set\_property' expects at least one object. [/home/jinson/vivado/Lab08\_Keyboard/Lab08\_Keyboard.srcs/constrs\_1/new/Lab08\_Keyboard.xdc:86]

Resolution: If [get\_<value>] was used to populate the object, check to make sure this command returns at least one valid object.

WARNING: [Vivado 12-584] No ports matched 'e'. [/home/jinson/vivado/Lab08\_Keyboard/Lab08\_Keyboard.srcs/constrs\_1/new/Lab08\_Keyboard.xdc:87]

CRITICAL WARNING: [Common 17-55] 'set\_property' expects at least one object. [/home/jinson/vivado/Lab08\_Keyboard/Lab08\_Keyboard.srcs/constrs\_1/new/Lab08\_Keyboard.xdc:87]

Resolution: If [get\_<value>] was used to populate the object, check to make sure this command returns at least one valid object.

WARNING: [Vivado 12-584] No ports matched 'f'. [/home/jinson/vivado/Lab08\_Keyboard/Lab08\_Keyboard.srcs/constrs\_1/new/Lab08\_Keyboard.xdc:88]

CRITICAL WARNING: [Common 17-55] 'set\_property' expects at least one object. [/home/jinson/vivado/Lab08\_Keyboard/Lab08\_Keyboard.srcs/constrs\_1/new/Lab08\_Keyboard.xdc:88]

Resolution: If [get\_<value>] was used to populate the object, check to make sure this command returns at least one valid object.

WARNING: [Vivado 12-584] No ports matched 'g'. [/home/jinson/vivado/Lab08\_Keyboard/Lab08\_Keyboard.srcs/constrs\_1/new/Lab08\_Keyboard.xdc:89]

CRITICAL WARNING: [Common 17-55] 'set\_property' expects at least one object. [/home/jinson/vivado/Lab08\_Keyboard/Lab08\_Keyboard.srcs/constrs\_1/new/Lab08\_Keyboard.xdc:89]

Resolution: If [get\_<value>] was used to populate the object, check to make sure this command returns at least one valid object.

Finished Parsing XDC File [/home/jinson/vivado/Lab08\_Keyboard/Lab08\_Keyboard.srcs/constrs\_1/new/Lab08\_Keyboard.xdc]

INFO: [Project 1-236] Implementation specific constraints were found while reading constraint file [/home/jinson/vivado/Lab08\_Keyboard/Lab08\_Keyboard.srcs/constrs\_1/new/Lab08\_Keyboard.xdc]. These constraints will be ignored for synthesis but will be used in implementation. Impacted constraints are listed in the file [.Xil/Lab08\_Keyboard\_propImpl.xdc].

Resolution: To avoid this warning, move constraints listed in [.Xil/Lab08\_Keyboard\_propImpl.xdc] to another XDC file and exclude this new file from synthesis with the used\_in\_synthesis property (File Properties dialog in GUI) and re-run elaboration/synthesis.

Netlist sorting complete. Time (s): cpu = 00:00:00 ; elapsed = 00:00:00 . Memory (MB): peak = 1719.148 ; gain = 0.000 ; free physical = 848 ; free virtual = 1703

Completed Processing XDC Constraints

Netlist sorting complete. Time (s): cpu = 00:00:00 ; elapsed = 00:00:00 . Memory (MB): peak = 1719.148 ; gain = 0.000 ; free physical = 848 ; free virtual = 1703

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 = 1719.148 ; gain = 0.000 ; free physical = 848 ; free virtual = 1703

Constraint Validation Runtime : Time (s): cpu = 00:00:00 ; elapsed = 00:00:00 . Memory (MB): peak = 1719.148 ; gain = 0.000 ; free physical = 848 ; free virtual = 1703

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Finished Constraint Validation : Time (s): cpu = 00:00:07 ; elapsed = 00:00:09 . Memory (MB): peak = 1719.148 ; gain = 338.801 ; free physical = 916 ; free virtual = 1771

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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 = 00:00:07 ; elapsed = 00:00:09 . Memory (MB): peak = 1719.148 ; gain = 338.801 ; free physical = 916 ; free virtual = 1771

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Start Applying 'set\_property' XDC Constraints

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

Finished applying 'set\_property' XDC Constraints : Time (s): cpu = 00:00:07 ; elapsed = 00:00:09 . Memory (MB): peak = 1719.148 ; gain = 338.801 ; free physical = 918 ; free virtual = 1773

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INFO: [Synth 8-5545] ROM "abcd" won't be mapped to RAM because address size (32) is larger than maximum supported(25)

INFO: [Synth 8-5545] ROM "abcd" won't be mapped to RAM because address size (32) is larger than maximum supported(25)

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Finished RTL Optimization Phase 2 : Time (s): cpu = 00:00:07 ; elapsed = 00:00:09 . Memory (MB): peak = 1719.148 ; gain = 338.801 ; free physical = 909 ; free virtual = 1764

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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 :

+---Registers :

8 Bit Registers := 1

4 Bit Registers := 1

+---Muxes :

10 Input 8 Bit Muxes := 1

12 Input 8 Bit Muxes := 1

2 Input 4 Bit Muxes := 1

4 Input 4 Bit Muxes := 1

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

Finished RTL Component Statistics

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

Start RTL Hierarchical Component Statistics

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Hierarchical RTL Component report

Module Lab08\_Keyboard

Detailed RTL Component Info :

+---Registers :

8 Bit Registers := 1

4 Bit Registers := 1

+---Muxes :

10 Input 8 Bit Muxes := 1

12 Input 8 Bit Muxes := 1

2 Input 4 Bit Muxes := 1

4 Input 4 Bit Muxes := 1

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

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

WARNING: [Synth 8-3917] design Lab08\_Keyboard has port an[7] driven by constant 1

WARNING: [Synth 8-3917] design Lab08\_Keyboard has port an[6] driven by constant 1

WARNING: [Synth 8-3917] design Lab08\_Keyboard has port an[5] driven by constant 1

WARNING: [Synth 8-3917] design Lab08\_Keyboard has port an[4] driven by constant 1

WARNING: [Synth 8-3917] design Lab08\_Keyboard has port an[3] driven by constant 1

WARNING: [Synth 8-3917] design Lab08\_Keyboard has port an[2] driven by constant 1

WARNING: [Synth 8-3917] design Lab08\_Keyboard has port an[1] driven by constant 1

WARNING: [Synth 8-3917] design Lab08\_Keyboard has port an[0] driven by constant 0

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Finished Cross Boundary and Area Optimization : Time (s): cpu = 00:00:08 ; elapsed = 00:00:09 . Memory (MB): peak = 1719.148 ; gain = 338.801 ; free physical = 897 ; free virtual = 1756

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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 = 00:00:12 ; elapsed = 00:00:14 . Memory (MB): peak = 1719.148 ; gain = 338.801 ; free physical = 772 ; free virtual = 1631

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

Start Timing Optimization

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Finished Timing Optimization : Time (s): cpu = 00:00:12 ; elapsed = 00:00:14 . Memory (MB): peak = 1719.148 ; gain = 338.801 ; free physical = 772 ; free virtual = 1631

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Report RTL Partitions:

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

| |RTL Partition |Replication |Instances |

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

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

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Start Technology Mapping

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

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

Finished Technology Mapping : Time (s): cpu = 00:00:12 ; elapsed = 00:00:14 . Memory (MB): peak = 1719.148 ; gain = 338.801 ; free physical = 771 ; free virtual = 1630

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Report RTL Partitions:

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

| |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 = 00:00:13 ; elapsed = 00:00:15 . Memory (MB): peak = 1719.148 ; gain = 338.801 ; free physical = 771 ; free virtual = 1630

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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 = 00:00:13 ; elapsed = 00:00:15 . Memory (MB): peak = 1719.148 ; gain = 338.801 ; free physical = 771 ; free virtual = 1630

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Report RTL Partitions:

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

| |RTL Partition |Replication |Instances |

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

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

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Start Rebuilding User Hierarchy

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Finished Rebuilding User Hierarchy : Time (s): cpu = 00:00:13 ; elapsed = 00:00:15 . Memory (MB): peak = 1719.148 ; gain = 338.801 ; free physical = 771 ; free virtual = 1630

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

Start Renaming Generated Ports

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Finished Renaming Generated Ports : Time (s): cpu = 00:00:13 ; elapsed = 00:00:15 . Memory (MB): peak = 1719.148 ; gain = 338.801 ; free physical = 771 ; free virtual = 1630

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Start Handling Custom Attributes

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Finished Handling Custom Attributes : Time (s): cpu = 00:00:13 ; elapsed = 00:00:15 . Memory (MB): peak = 1719.148 ; gain = 338.801 ; free physical = 771 ; free virtual = 1630

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Start Renaming Generated Nets

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Finished Renaming Generated Nets : Time (s): cpu = 00:00:13 ; elapsed = 00:00:15 . Memory (MB): peak = 1719.148 ; gain = 338.801 ; free physical = 771 ; free virtual = 1630

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Start Writing Synthesis Report

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Report BlackBoxes:

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

| |BlackBox name |Instances |

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

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

Report Cell Usage:

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

| |Cell |Count |

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

|1 |BUFG | 1|

|2 |CARRY4 | 5|

|3 |LUT1 | 2|

|4 |LUT2 | 6|

|5 |LUT3 | 4|

|6 |LUT5 | 5|

|7 |LUT6 | 11|

|8 |FDRE | 22|

|9 |FDSE | 6|

|10 |IBUF | 4|

|11 |OBUF | 20|

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

Report Instance Areas:

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

| |Instance |Module |Cells |

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

|1 |top | | 86|

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

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Finished Writing Synthesis Report : Time (s): cpu = 00:00:13 ; elapsed = 00:00:15 . Memory (MB): peak = 1719.148 ; gain = 338.801 ; free physical = 771 ; free virtual = 1630

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Synthesis finished with 0 errors, 0 critical warnings and 8 warnings.

Synthesis Optimization Runtime : Time (s): cpu = 00:00:10 ; elapsed = 00:00:11 . Memory (MB): peak = 1719.148 ; gain = 5.926 ; free physical = 826 ; free virtual = 1684

Synthesis Optimization Complete : Time (s): cpu = 00:00:13 ; elapsed = 00:00:15 . Memory (MB): peak = 1719.156 ; gain = 338.801 ; free physical = 826 ; free virtual = 1684

INFO: [Project 1-571] Translating synthesized netlist

INFO: [Netlist 29-17] Analyzing 5 Unisim elements for replacement

INFO: [Netlist 29-28] Unisim Transformation completed in 0 CPU seconds

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 = 1719.156 ; gain = 0.000 ; free physical = 766 ; free virtual = 1625

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

No Unisim elements were transformed.

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

16 Infos, 42 Warnings, 26 Critical Warnings and 0 Errors encountered.

synth\_design completed successfully

synth\_design: Time (s): cpu = 00:00:14 ; elapsed = 00:00:16 . Memory (MB): peak = 1719.156 ; gain = 338.883 ; free physical = 823 ; free virtual = 1682

Netlist sorting complete. Time (s): cpu = 00:00:00 ; elapsed = 00:00:00 . Memory (MB): peak = 1719.156 ; gain = 0.000 ; free physical = 823 ; free virtual = 1682

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/Lab08\_Keyboard/Lab08\_Keyboard.runs/synth\_1/Lab08\_Keyboard.dcp' has been generated.

INFO: [runtcl-4] Executing : report\_utilization -file Lab08\_Keyboard\_utilization\_synth.rpt -pb Lab08\_Keyboard\_utilization\_synth.pb

INFO: [Common 17-206] Exiting Vivado at Sun May 5 19:42:43 2019...