MIPS (files for RTL simulation: ALU.v/control.v/registers.v/PC.v/sign_extend.v/add.v)

1. Simulated timing (ns): 5.5

2. Area (um^2):

dc_shell> report_area

Report : area Design : CHIP

Version: N-2017.09-SP2

Date: Mon May 4 15:16:11 2020

Library(s) Used:

typical (File: /home/raid7_2/course/cvsd/CBDK_IC_Contest/CIC/SynopsysDC/db/

typical.db)

Number of ports: 277 Number of nets: 6365 Number of cells: 6186

Number of combinational cells: 5161
Number of sequential cells: 1024
Number of macros/black boxes: 0

Number of buf/inv: 1491 Number of references: 76

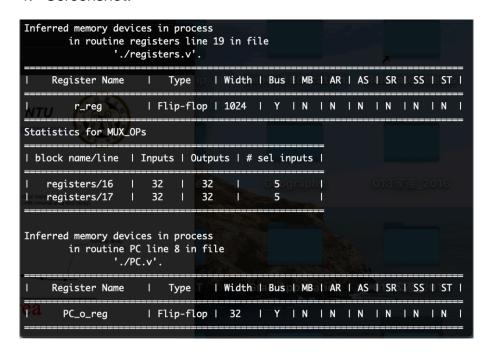
Combinational area: 40053.548695 Buf/Inv area: 7692.616757

Noncombinational area: 27835.662176 Macro/Black Box area: 0.000000 Net Interconnect area: 748817.081665

Total cell area: 67889.210871 Total area: 816706.292536

3. Cost (A*T): 373390.6597905

4. Screenshot:



RISCV (files for RTL simulation: ALU.v/control.v/registers.v/PC.v/ImmGen.v/add.v)

- 1. Simulated timing (ns): 6.5
- Area (um²):
 dc_shell> report_area

Report : area Design : CHIP

Version: N-2017.09-SP2

Date : Sat Apr 25 18:48:16 2020

Library(s) Used:

typical (File: /home/raid7_2/course/cvsd/CBDK_IC_Contest/CIC/SynopsysDC/db/typical.db)

Number of ports: 163 Number of nets: 6231 Number of cells: 5367

Number of combinational cells: 4343
Number of sequential cells: 1024
Number of macros/black boxes: 0

Number of buf/inv: 749 Number of references: 97

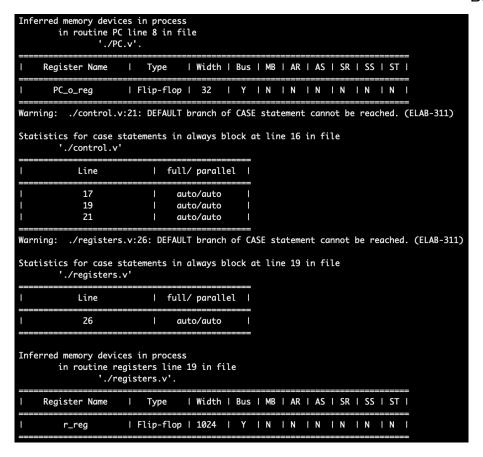
Combinational area: 39953.401327 Buf/Inv area: 5204.228406

Noncombinational area: 27818.688173 Macro/Black Box area: 0.000000 Net Interconnect area: 709663.559052

Total cell area: 67772.089500 Total area: 777435.648552

3. Cost (A*T): 440518.58175

4. Screenshot:



RISCV_RV32IC (files for RTL simulation: ALU.v/control.v/registers.v/PC.v/ImmGen.v/add.v/decompressor.v)

1. Simulated timing (ns): 8.5

2. Area (um^2):

dc_shell> report_area

Report : area Design : CHIP

Version: N-2017.09-SP2

Date : Thu Apr 30 16:32:02 2020

Library(s) Used:

typical (File: /home/raid7_2/course/cvsd/CBDK_IC_Contest/CIC/SynopsysDC/db/typical.db)

Number of ports: 163 Number of nets: 6568 Number of cells: 5574

Number of combinational cells: 4550 Number of sequential cells: 1024 Number of macros/black boxes: 0

Number of buf/inv: 638 Number of references: 101 Combinational area: 40174.063345 Buf/Inv area: 4235.012983

Noncombinational area: 27810.201172
Macro/Black Box area: 0.000000
Net Interconnect area: 727490.314301

Total cell area: 67984.264517 Total area: 795474.578818

- 3. Cost (A*T): 577866.2483945
- 4. Screenshot:

