**ECEN 454**

**LAB 7**

**NAME:** Jason Gilman

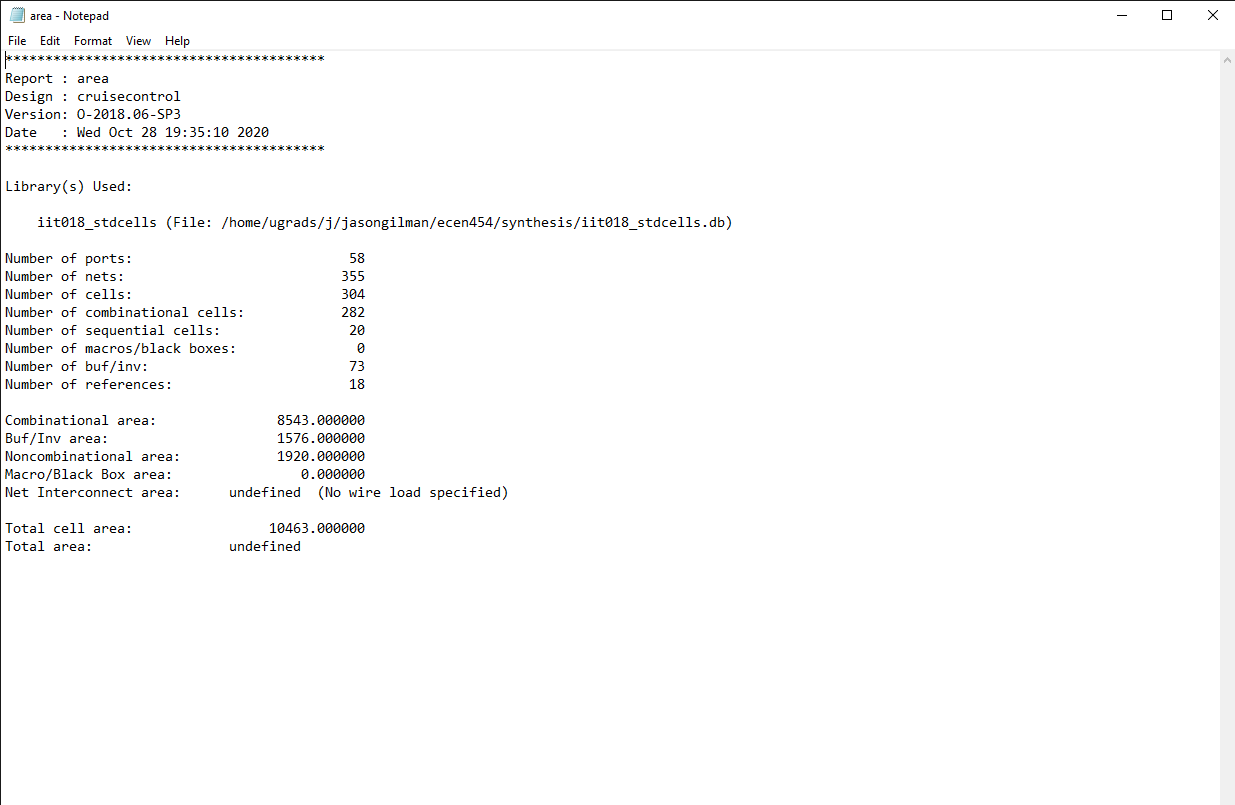
**UIN:** 126006979

**SECTION:** 511

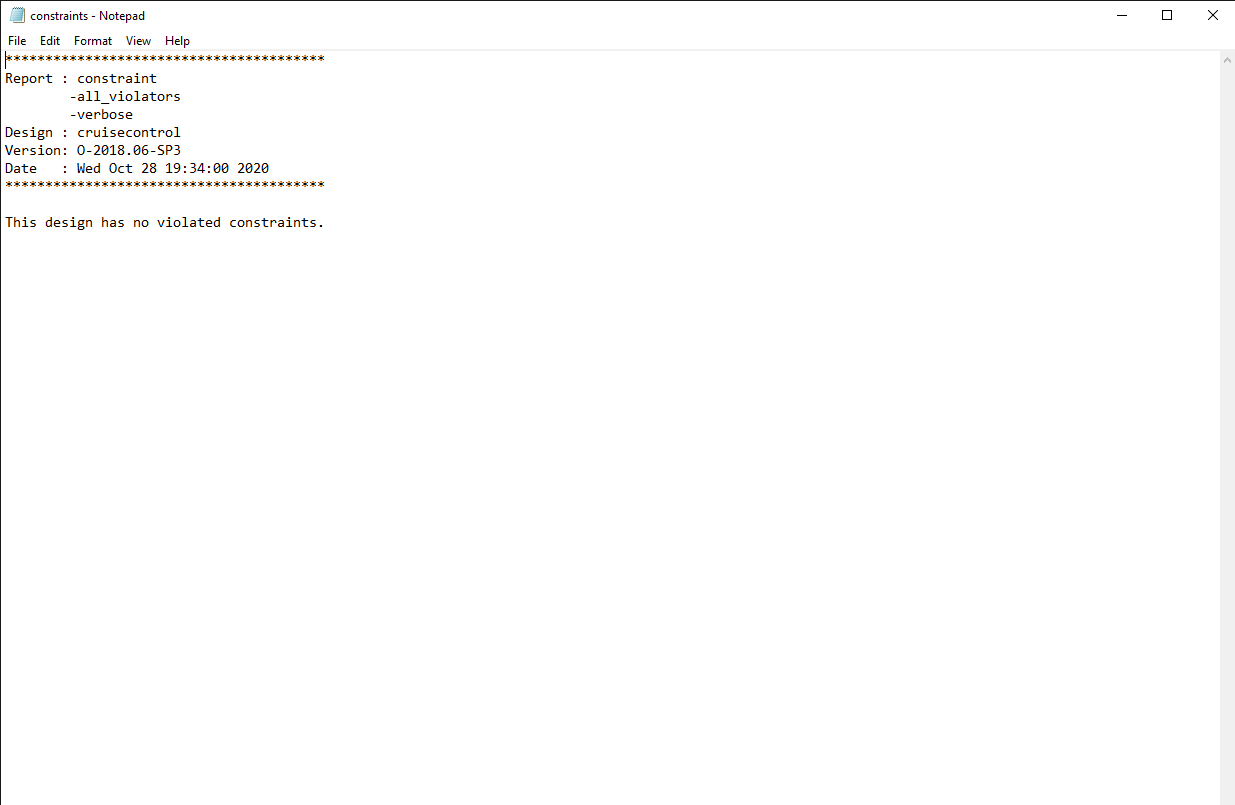
**TA:** Guaynu Gao

**Part A**

area

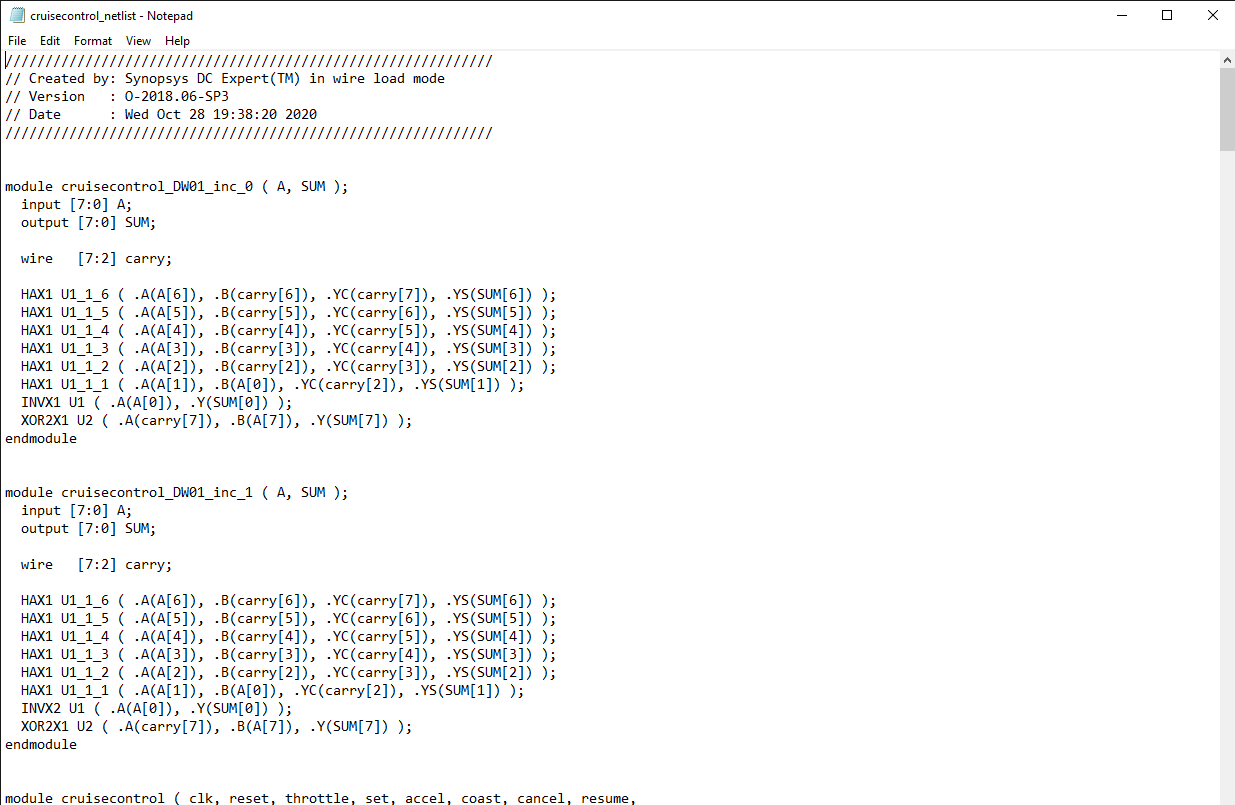
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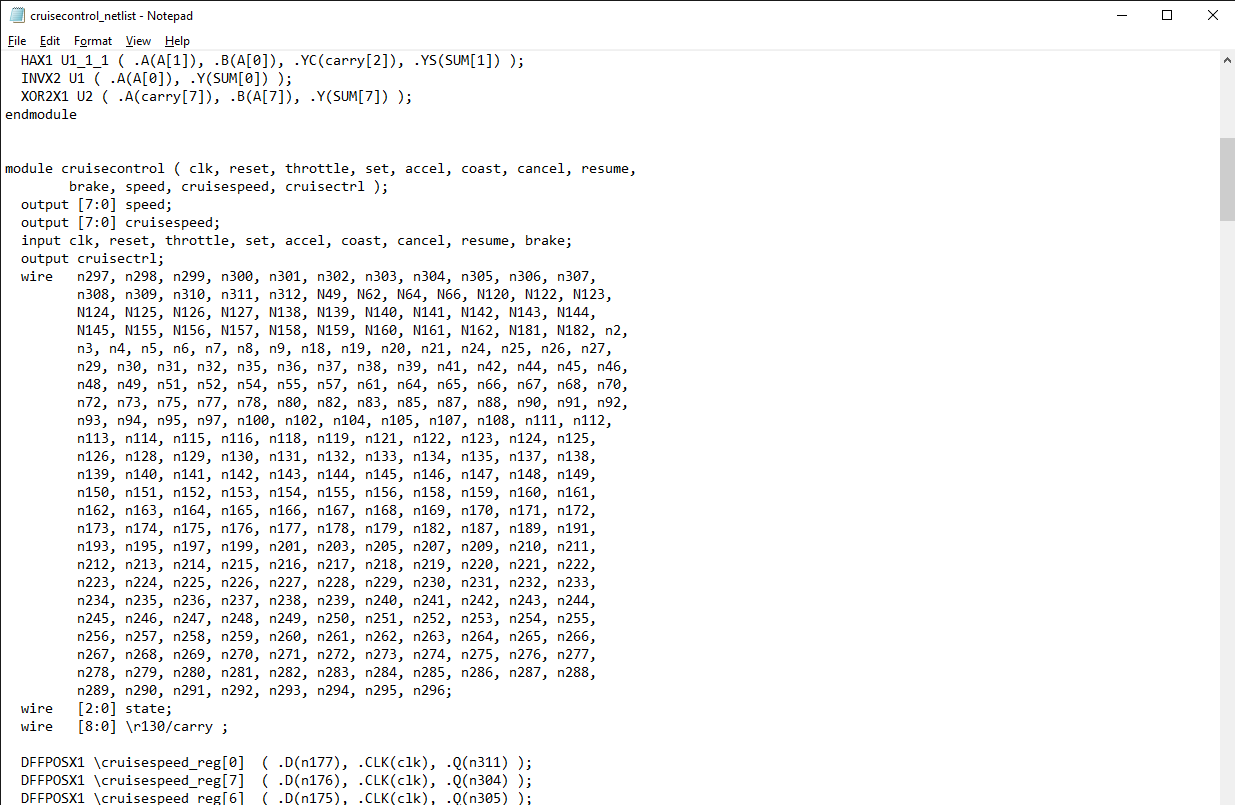
Constraints



Register count = 20

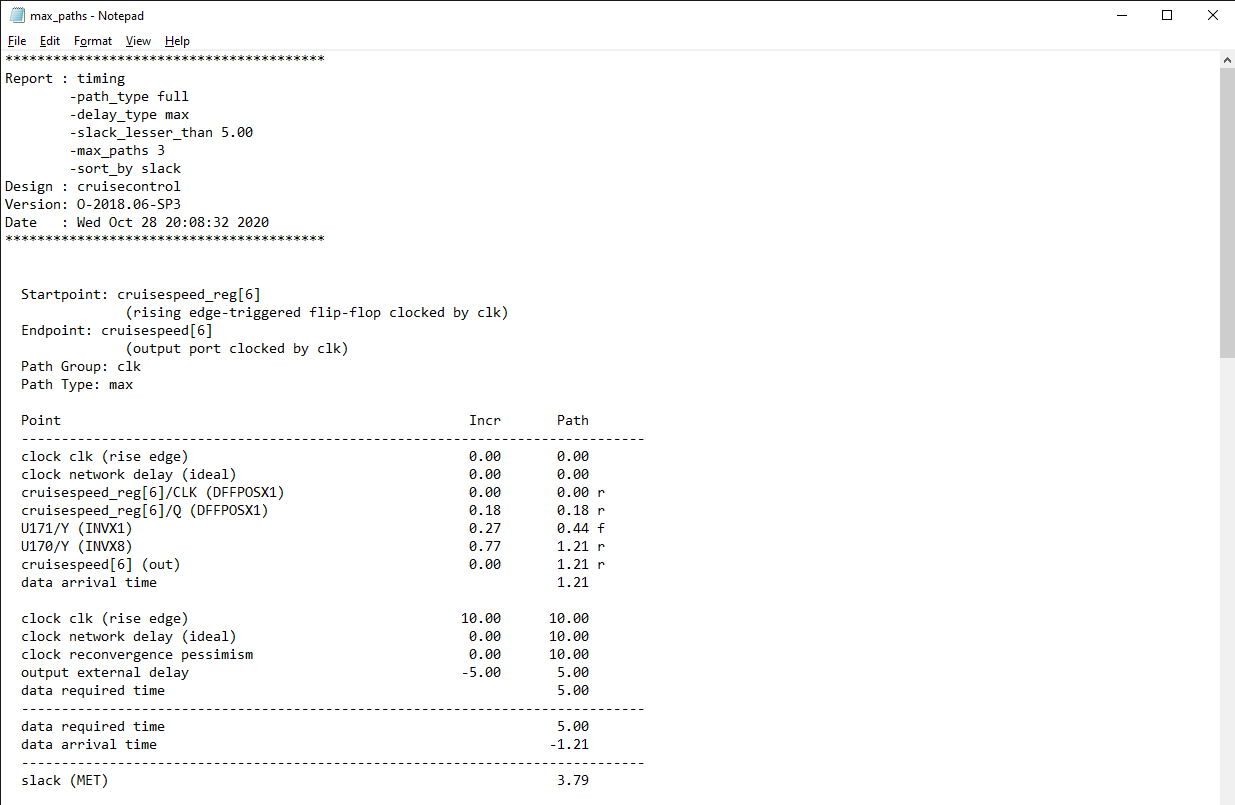
Netlist

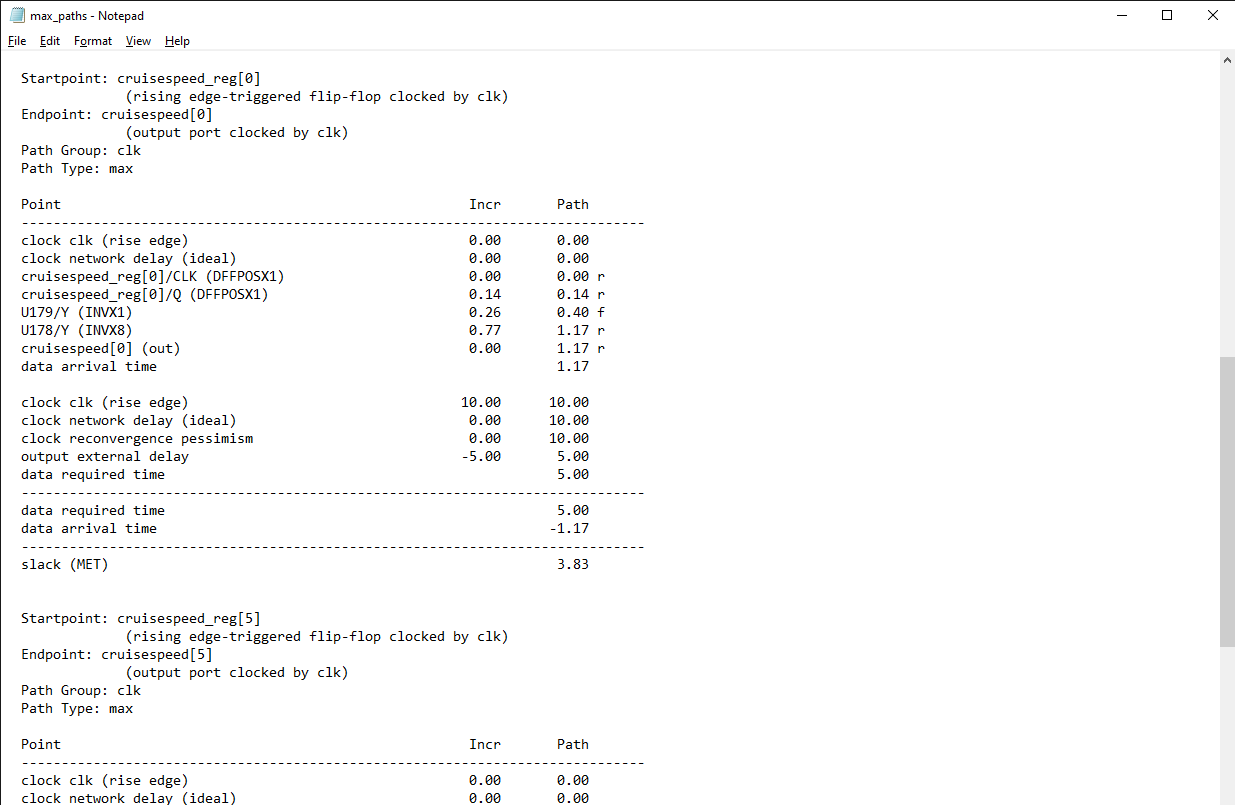


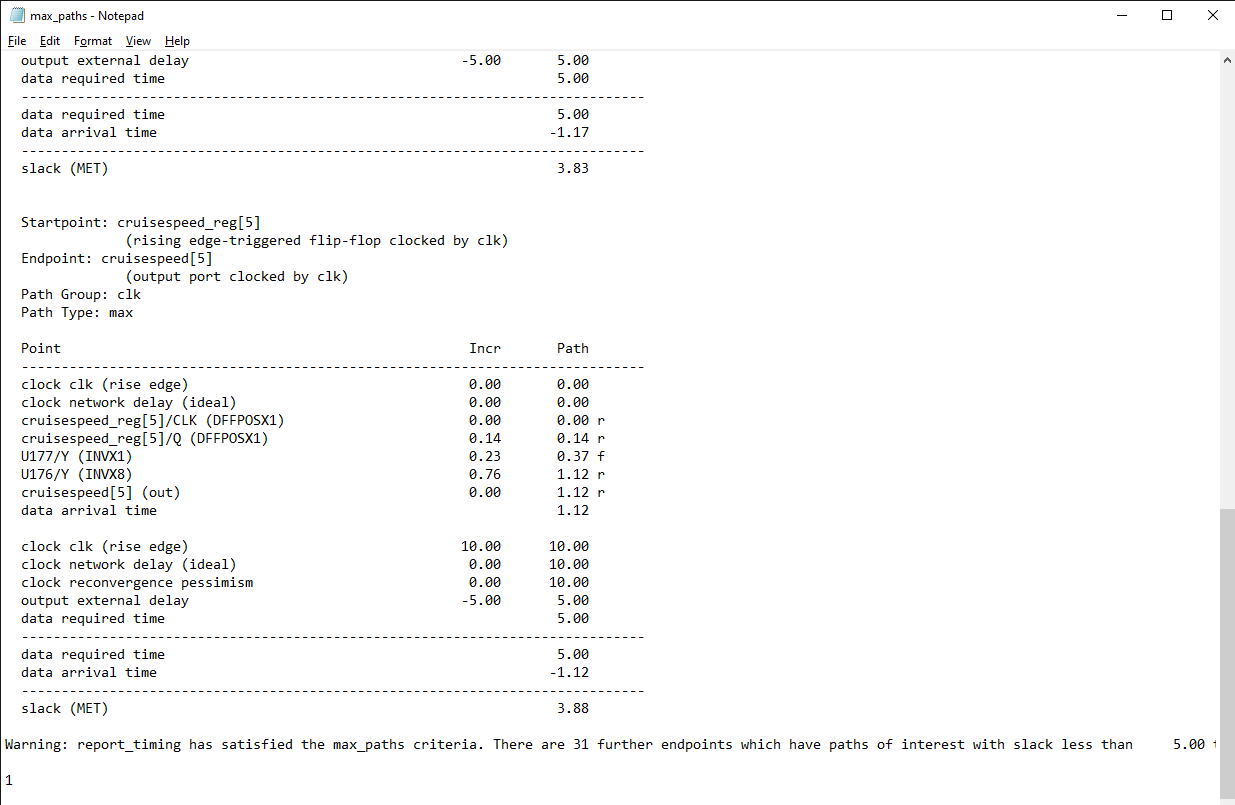


**Part B**

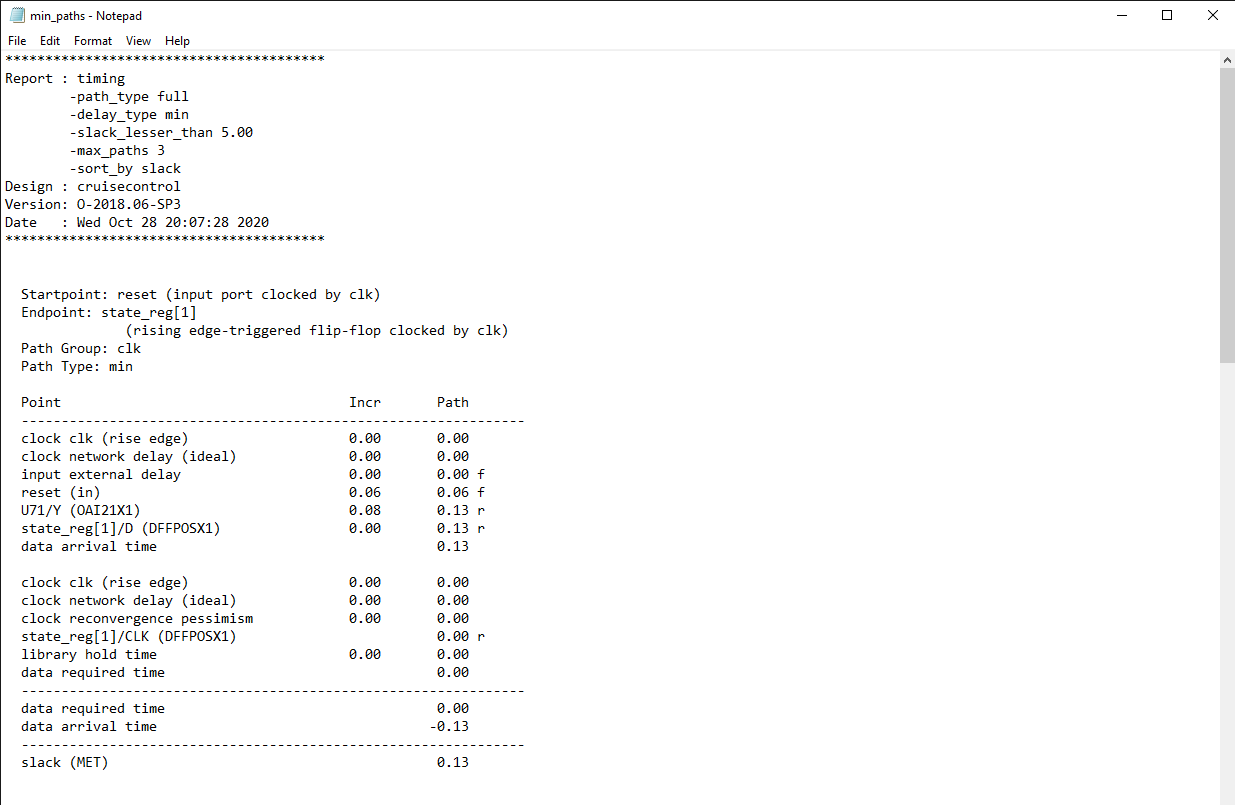
Max\_paths

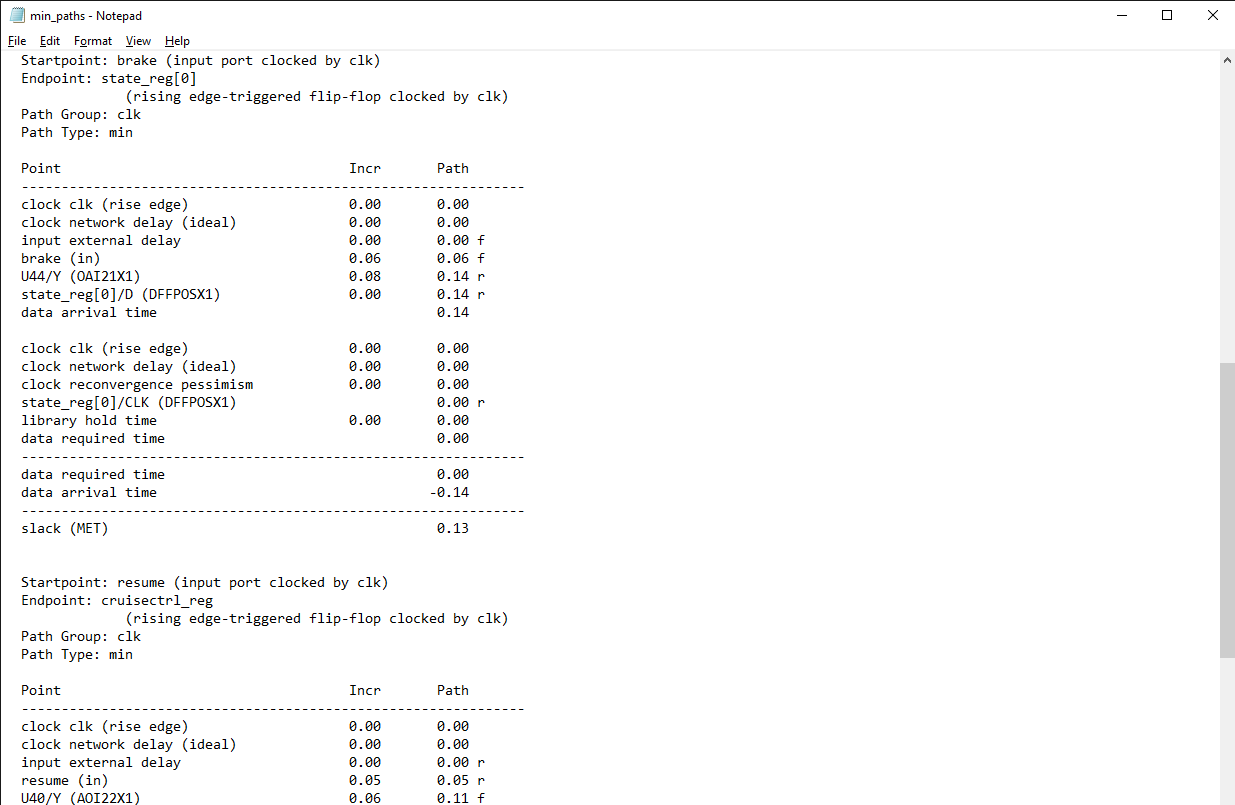


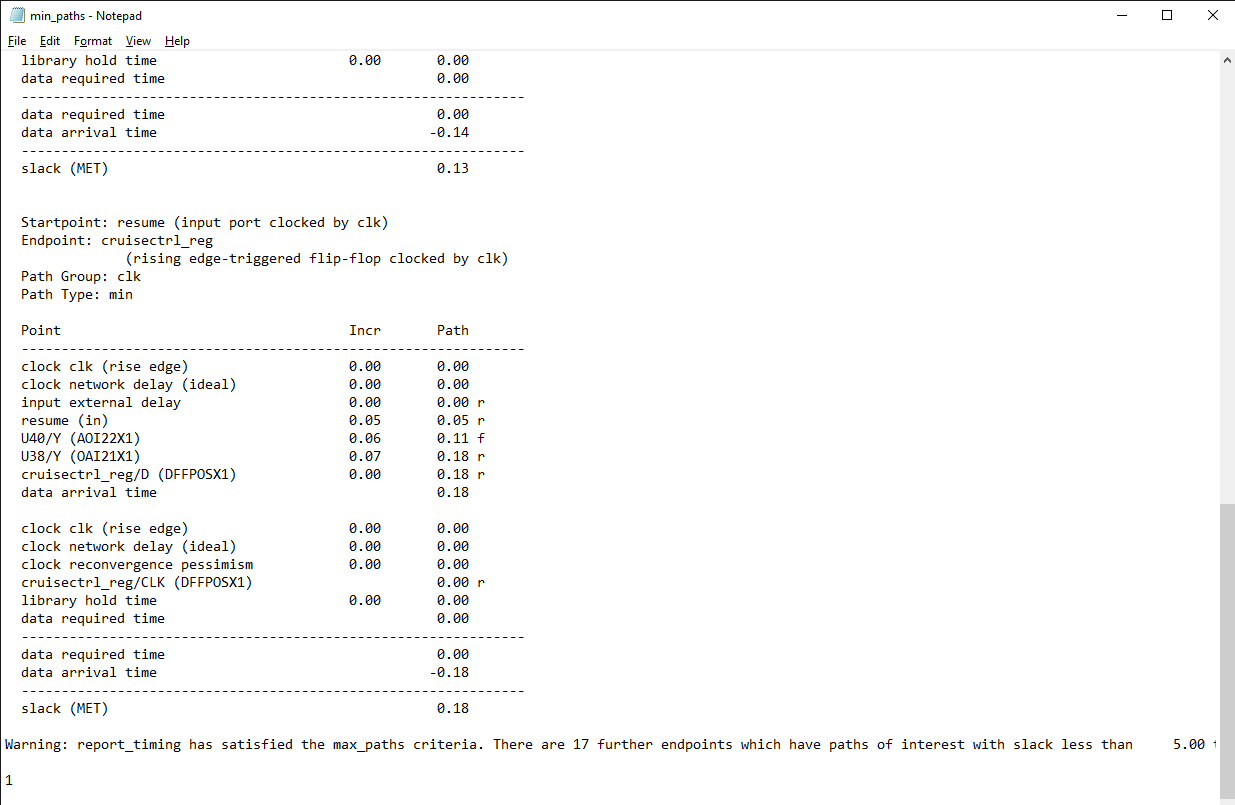




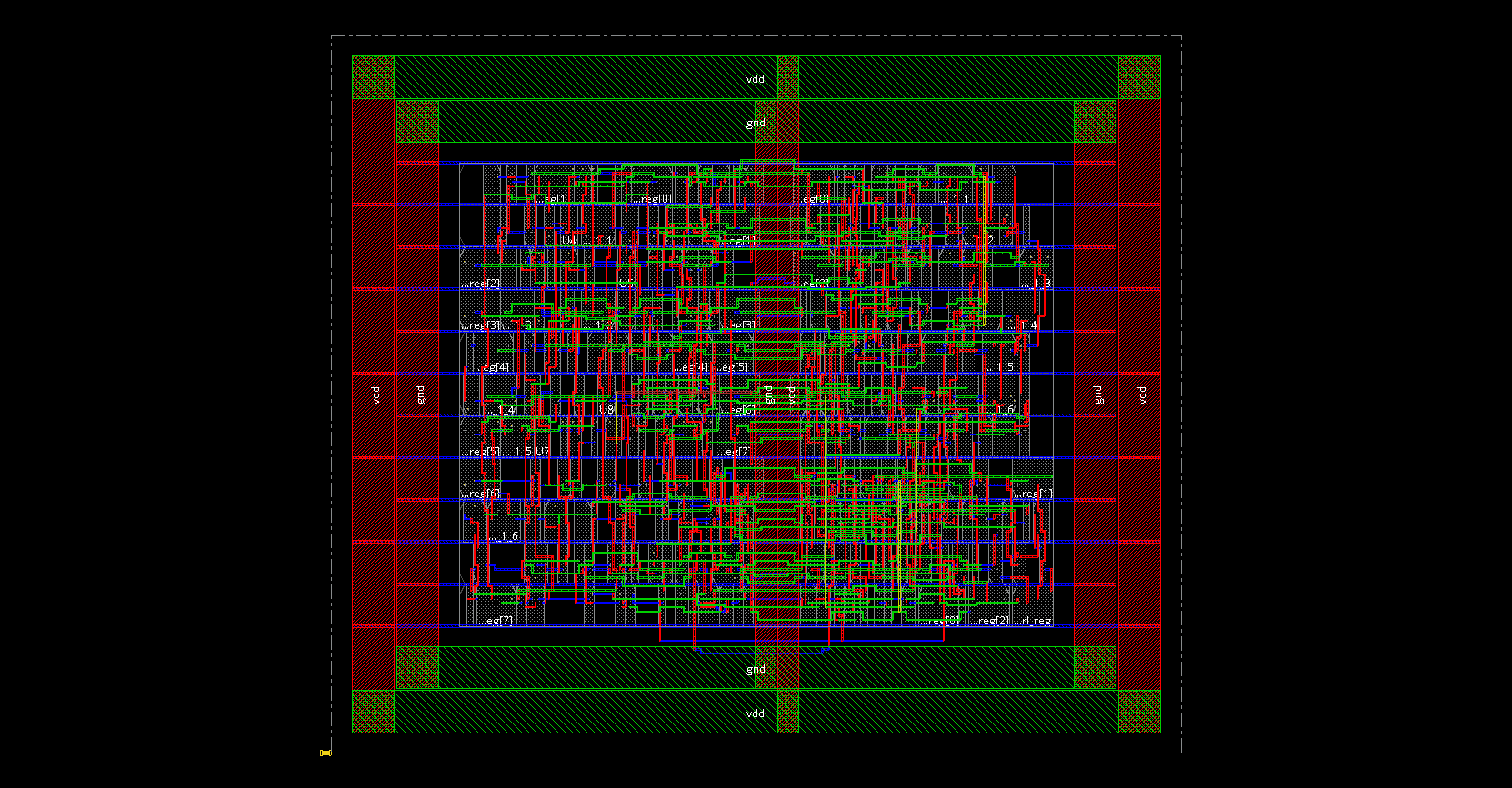
Min\_paths







**Part C**



Total Wire Length = 9328 um

Total Number of Vias = 1436

Standard Cells = 302