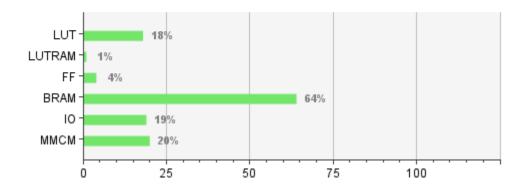


Utilization

Resource	Utilization	Available	Utilization %
LUT	3838	20800	18.45
LUTRAM	138	9600	1.44
FF	1637	41600	3.94
BRAM	32	50	64.00
10	20	106	18.87
MMCM	1	5	20.00



Power

Power analysis from Implemented netlist. Activity derived from constraints files, simulation files or vectorless analysis.

Total On-Chip Power: 0.254 W

Design Power Budget: Not Specified

Power Budget Margin: N/A

Junction Temperature: 26.3°C

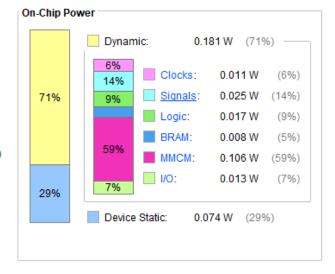
Thermal Margin: 58.7°C (11.7 W)

Effective 9JA: 5.0°C/W

Power supplied to off-chip devices: 0 W
Confidence level: Low

Launch Power Constraint Advisor to find and fix

invalid switching activity



Vitis Result

Here I have taken following matrixes:

$$A = \{\{1, 2, 3, 4\},\$$

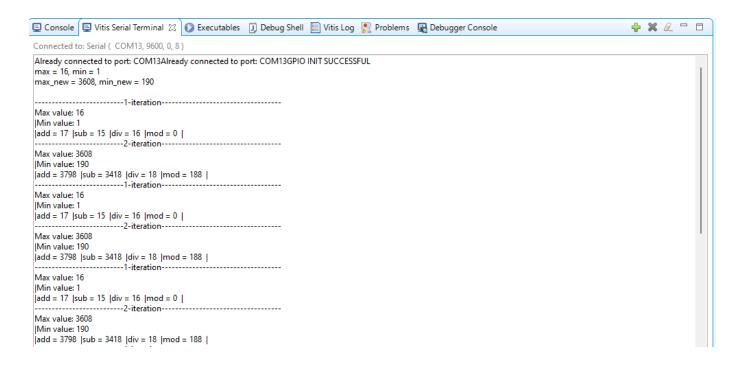
$$B = \{\{1, 0, 0, 0\},\$$

$$\{0, 1, 0, 0\},\$$

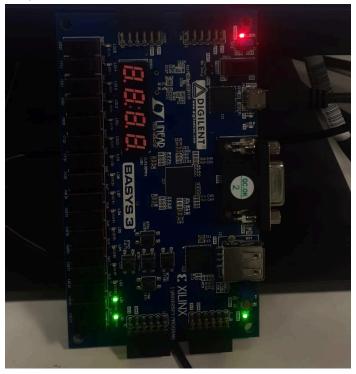
$$\{0, 0, 1, 0\},\$$

$$\{0, 0, 0, 1\}\};$$

$$D = \{\{1, 2, 3\},\$$



Basys3 demo



Live demo

https://drive.google.com/file/d/1T70s9CmqojA2KPrL29cNFiQhcgU9m-IZ/view?usp=drive_link