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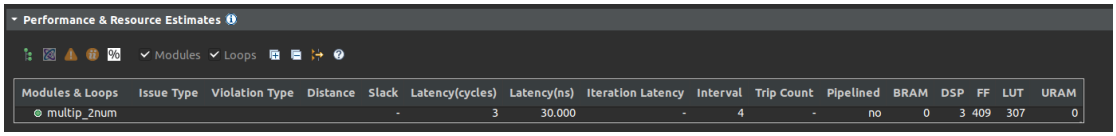
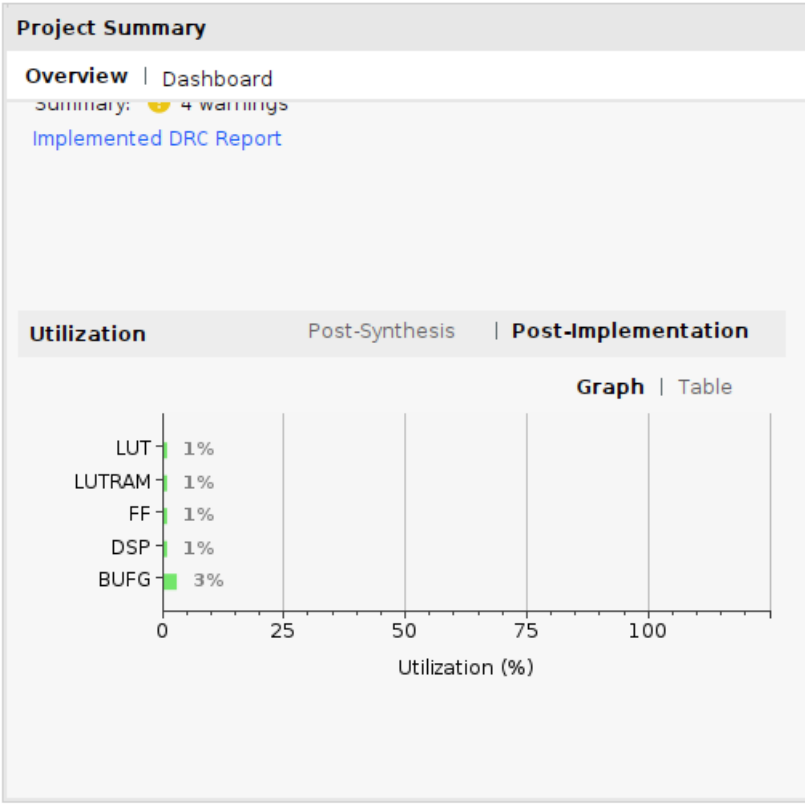
Brief introduction about the overall system. What is observed & learned?

這個 lab 讓我稍微了解 Vitis 和 vivado 的操作過程，我發現到 vivado 有許多功能等著我去探索，之後可以利用 waveform 的功能來幫助我了解電路。

Screen dump – Performance



Screen dump – Utilization



Screen dump – Interface

HW Interfaces

S_AXILITE Interfaces

Interface	Data Width	Address Width	Offset	Register
s_axi_control	32	6	16	0

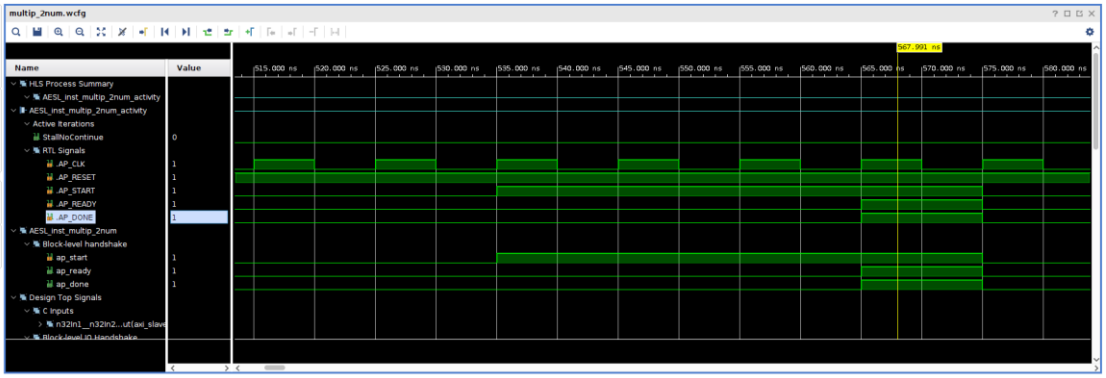
S_AXILITE Registers

Interface	Register	Offset	Width	Access	Description	Bit Fields
s_axi_control	n32In1	0x10	32	W	Data signal of n32In1	
s_axi_control	n32In2	0x18	32	W	Data signal of n32In2	
s_axi_control	pn32ResOut	0x20	32	R	Data signal of pn32ResOut	
s_axi_control	pn32ResOut_ctrl	0x24	32	R	Control signal of pn32ResOut	0=pn32ResOut_ap_vld

TOP LEVEL CONTROL

Interface	Type	Ports
ap_clk	clock	ap_clk
ap_rst_n	reset	ap_rst_n
ap_ctrl	ap_ctrl_none	

Screen dump -Co-simulation transcript/waveform



Screen dump - Jupyter Notebook execution results

```
            print(str(i + 1) + " * " + str(j + 1) + " = " + str(Res))
    print("==========================")
    print("Exit process")
```

```
Entry: /usr/local/share/pynq-venv/lib/python3.8/site-packages/ipykernel_launcher.py
System argument(s): 3
Start of "/usr/local/share/pynq-venv/lib/python3.8/site-packages/ipykernel_launcher.py"
==========================
1 * 1 = 1
1 * 2 = 2
1 * 3 = 3
1 * 4 = 4
1 * 5 = 5
1 * 6 = 6
1 * 7 = 7
1 * 8 = 8
1 * 9 = 9
==========================
2 * 1 = 2
2 * 2 = 4
2 * 3 = 6
2 * 4 = 8
2 * 5 = 10
2 * 6 = 12
2 * 7 = 14
2 * 8 = 16
2 * 9 = 18
==========================
3 * 1 = 3
3 * 2 = 6
3 * 3 = 9
3 * 4 = 12
3 * 5 = 15
3 * 6 = 18
3 * 7 = 21
3 * 8 = 24
3 * 9 = 27
==========================
4 * 1 = 4
4 * 2 = 8
4 * 3 = 12
4 * 4 = 16
4 * 5 = 20
4 * 6 = 24
4 * 7 = 28
4 * 8 = 32
4 * 9 = 36
==========================
5 * 1 = 5
5 * 2 = 10
5 * 3 = 15
5 * 4 = 20
5 * 5 = 25
5 * 6 = 30
5 * 7 = 35
5 * 8 = 40
5 * 9 = 45
==========================
6 * 1 = 6
6 * 2 = 12
6 * 3 = 18
6 * 4 = 24
6 * 5 = 30
6 * 6 = 36
6 * 7 = 42
6 * 8 = 48
```

```
6 * 9 = 54
==========
7 * 1 = 7
7 * 2 = 14
7 * 3 = 21
7 * 4 = 28
7 * 5 = 35
7 * 6 = 42
7 * 7 = 49
7 * 8 = 56
7 * 9 = 63
==========
8 * 1 = 8
8 * 2 = 16
8 * 3 = 24
8 * 4 = 32
8 * 5 = 40
8 * 6 = 48
8 * 7 = 56
8 * 8 = 64
8 * 9 = 72
==========
9 * 1 = 9
9 * 2 = 18
9 * 3 = 27
9 * 4 = 36
9 * 5 = 45
9 * 6 = 54
9 * 7 = 63
9 * 8 = 72
9 * 9 = 81
==========
Exit process
```