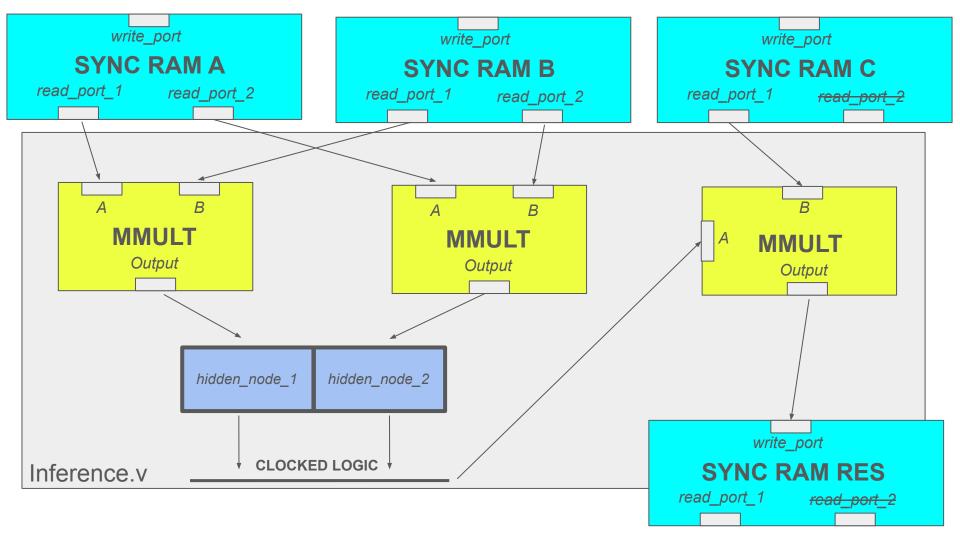


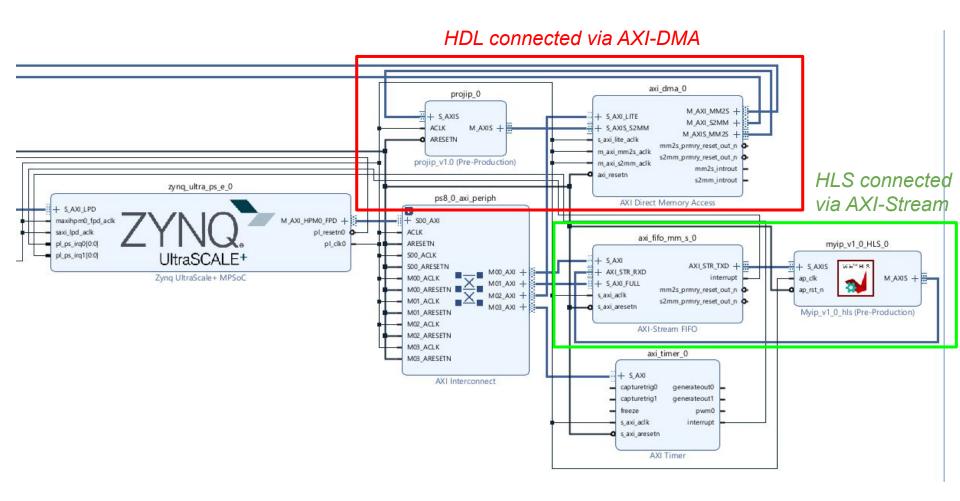


We do not need to wait for entire *INPUT->HIDDEN* layer to complete, before we can start on *HIDDEN->OUTPUT*

Once we have computed the [1x2] matrix corresponding to the hidden nodes for an ith datapoint, we can concurrently do ...

- Computation of [1x1] matrix corresponding to output node for the ith datapoint
- Computation of [1x2] matrix corresponding to hidden nodes for i^{th+1} datapoint





```
Zynq MP First Stage Boot Loader LFCR
Release 2023.2 Mar 20 2024 - 19:33:41 CFF
PMU-FW is not running, certain applications may not be supported. LFCR
HARD_HDL chosen. AXI-DMA(Polling). LF
Ready to accept files from RealtermLF
Files received from RealtermLF
Kickoff SOFT and HARD calculationsLF
SW mult is 3011
HW mult is 1370 Comparing data ... LRF
15 78 78 62 49 55 77 84 72 56 47 45 88 78 78 55 90 50 75 46 55 58 78 36 72 68 82
71 46 35 45 49 49 39 68 73 47 82 40 84 39 104 43 41 57 84 96 67 79 47 34 70 69
44 78 39 33 87 45 50 81 45 62 52 Verification successLF
```

	Lyng MF First Stage Boot Loader 448
	Release 2023.2 Mar 20 2024 - 19:33:41 MF
	PMU-FV is not running, certain applications may not be supported. If it
	HARD_HLS chosen. AXI-Stream(Interrupt).
	Ready to accept files from Realterm4
	Files received from Realternia
	Kickoff SOFT and HARD calculations ^{lf}
	SW mult is 30324
ı	HV mult is 22929 Comparing data NF
	15 78 78 62 49 55 77 84 72 56 47 45 88 78 78 55 90 50 75 46 55 58 78 36 72 68 82
	71 46 35 45 49 49 39 68 73 47 82 40 84 39 104 43 41 57 84 96 67 79 47 34 70 69
	44 78 39 33 87 45 50 81 45 62 52 Verification success!

Resource	desource Estimation		Utilization	
LUT	570	117120	0.49	
LUTRAM	34	57600	0.06	
FF	336	234240	0.14	
BRAM	1	144	0.69	
Ю	47	189	24.87	
BUFG	1	352	0.28	

BRAM	DSP	FF	LUT	URAM
1	192	14680	25053	0