

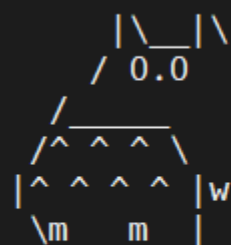
# ML Chip HW3

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```
Core_13 get packetsrc_id:13, dest_id:3, num_of_flits:13
Core_1 receive tail, data:0.723958
Core_11 receive tail, data:0.099996
Core_15 receive tail, data:0.620142
Core_8 receive tail, data:0.559162
Core_5 receive tail, data:0.370374
Core_4 receive tail, data:0.022716
Core_3 receive tail, data:0.415352
Core_14 receive tail, data:0.115991
Core_0 receive tail, data:0.402228
Core_12 receive tail, data:0.364468
Core_10 receive tail, data:0.475418
```

```
=====
+                                     +
+  Congratulations !!               +
+                                     +
+  Simulation completed             +
+  at 331 th cycle                  +
+                                     +
+                                     +
=====
```



```
Info: /0SCI/SystemC: Simulation stopped by user.
10:34 mlchip126@ee21[~/HW3_demo/hw3]$
```

# Simulation specification

- Routing algorithm: X-Y algorithm
- Scheme: Wormhole
- Implementation: Algorithmic
- Input buffer size: 1 flit
- Flow control: Ack-Nack
- Virtual Channel: N/A

# Faced problems:

- No idea that systemC can dump waveform trace file, I think TA should lecture a course about ways of dumping the waveform within systemC
- Debugging such routers, waveform seems necessary to extract the needed information for debugging
- Making simple example is better at debugging such complicated system. For doing that, I think the PE provided should not be encoded.

# References:

- **On-Chip Networks Second Edition**
- **Principles and Practices of Interconnection Networks**