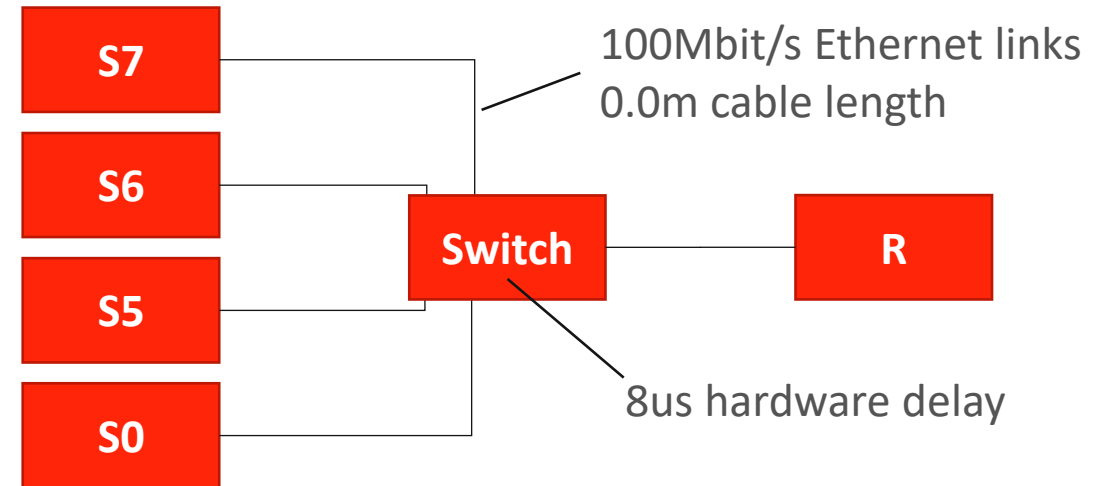


Network Definition

CoRE4INET: examples/tsn/medium_network

- Oscillator
 - max_drift 200ppm
 - drift_change **uniform**(-12.5ppm,12.5ppm)
- DummySync
 - cycle 3ms
 - precision 500ns
- Queue
 - size = 4



| Name | Sender | Receiver | Size (B) | Offset | Interval (us) | Priority | Shaping |
|-------------|--------|----------|----------|--------|---------------|----------|---------------|
| CRITICAL | S7 | R | L2: 1522 | 0s | 300 | 7 | - |
| HIGH | S6 | R | L2: 322 | 0s | 125 | 6 | CBS SRCLASS A |
| MEDIUM | S5 | R | L2: 322 | 1ns | 250 | 5 | CBS SRCLASS B |
| BEST EFFORT | S0 | R | L2: 1518 | 0s | 125 | - | - |

Best/Worst Case CRITICAL(7)

- 8us
 - hardware delay
- 244.8us
 - 2x transmission (L1: 1530Byte)
- => **252.8us**

- 122.08us
 - BE Interference (L1: 1526Byte)
- 0.96us
 - IFG
- 8us
 - Hardware delay
- 244.8us
 - 2x transmission (L1: 1530Byte)
- => **375.84us**

Simulation Results (4s)

CRITICAL(7)

4s Simulation:

Count 13333

Mean 2.985244671116778E-4

StdDev 3.6633493918176364E-5

Min 2.5296E-4

=> 252.96us ≈ 252.8us

Max 3.7584E-4

=> 375.84us = 375.84us

Best/Worst Case HIGH(6)

- 8us
 - hardware delay
- 52.8us
 - 2x transmission (L1: 330Byte)
- => **60.8us**

- 244.48us
 - BE Interference (L1: 1526Byte)
 - CRITICAL Int. (L1: 1530Byte)
- 1.92us
 - 2x IFG
- 8us
 - Hardware delay
- 52.8us
 - 2x transmission (L1: 330Byte)
- => **307.2us**

Simulation Results (4s)

HIGH(6)

4s Simulation:

Count 32000

Mean 1.61194955E-4

StdDev 7.362117934390194E-5

Min 6.08E-5

=> 60.8us = 60.8us

Max 3.072E-4

=> 307.2us = 307.2us

Best/Worst Case MEDIUM(5)

- 26.4us
 - HIGH Interference (L1: 330Byte)
- 0.96us
 - IFG
- 8us
 - hardware delay
- 52.8us
 - 2x transmission (L1: 330Byte)
- => **88.16us**

- 472.48us
 - BE Interference (L1: 1526Byte)
 - 2x CRITICAL Int. (L1: 1530Byte)
 - 4x HIGH Int. (L1: 330Byte)
- 6.72us
 - 7x IFG
- 8us
 - Hardware delay
- 52.8us
 - 2x transmission (L1: 330Byte)
- => **540us**

Simulation Results (4s)

MEDIUM(5)

4s Simulation:

| | | | |
|--------|-----------------------|------------------------|-----------|
| Count | 15999 | | |
| Mean | 2.471058491780736E-4 | | |
| StdDev | 1.0653374659967007E-4 | | |
| Min | 8.8159E-5 | +1ns Offset => 88.16us | = 88.16us |
| Max | 5.35999E-4 | +1ns Offset => 536us | !! 540us |

Simulation Results

Worst Case MEDIUM(5)

