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General Simulation Information

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Num Servers Per TOR:      3      Num Sender Hosts:      2      Load Factor:           %1.785714
Num TORs:                 1      Num Receiver Hosts:    1      Start Time:            0s
Server Link Speed:       10Gb/s  Workload Type:         PRESET_IN_FILEStop Time: 9.5s
Fabric Link Speed:       40Gb/s  InterArrival Dist:     preset_in_fileWarmup Time: 0ms
Fabric Link Delay        0.0us   SW Turn-around Time:   0.5us   NIC Send ThinkTime:    0.5us
Edge Link Delay          0.0us   Switch Fix Delay:      0.25us
    
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Receiver's Outstanding Bytes(@ packet arrivals) and Grants (@ new grants)

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In Flight Bytes          mean   stddev   min    median  75%ile  99%ile   max    count
                        (KB)   (KB)    (KB)   (KB)    (KB)    (KB)    (KB)
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Outstanding Grant Bytes:  7.51   0.10    1.50   7.44    7.44    7.44    7.51   6869
Outstanding Total Bytes:  7.51   0.13    0.17   7.44    7.44    7.44    7.51   6869
    
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Homa Packets Traffic Rates

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Homa Packet Type        AvgRate   CumRate   MinRate   MaxRate
                        (Mb/s)    (Mb/s)    (Mb/s)    (Mb/s)
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SX NICs Req. SxRate:    890.09    1780.17    0.12      1780.05
SX NICs Unsched. SxRate: 0.00      0.00      0.00      0.00
SX NICs Sched. SxRate:  3944.02   7888.04    0.00      7888.04
RX NICs Grant SxRate:   343.00    343.00     343.00    343.00
    
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Traffic Characteristic (Rates, Bytes, and DutyCycle)

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Measurement Point      AvgRate   CumRate   MinRate   MaxRate   CumBytes   Avg Duty   Min Duty   Max Duty
                        (Gb/s)    (Gb/s)    (Gb/s)    (Gb/s)    (MB)       Cycle(%)  Cycle(%)  Cycle(%)
-----
SX Apps Send:          inf       inf       1.10     inf       11.45
SX NICs Send:          4.83     9.67     1.78     7.89     12.78
All NICs Send:         3.34     10.01    0.34     7.89     13.23
TORs Down Recv:        3.34     10.01    0.34     7.89     13.23
TORs Up Send:
TORs Up Recv:
TORs Down Send:        3.34     10.01    0.00     9.67     13.23
ALL NICs Recv:         3.34     10.01    0.00     9.67     13.23
RX NICs Recv:          9.67     9.67     9.67     9.67     12.78
RX Apps Recv:          8.66     8.66     8.66     8.66     11.45
    
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Queue Length (Stats Collected At Pkt Arrivals)

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Queue Location         Mean     StdDev   Mean     StdDev   Empty   OnePkt   Min     Min     Max     Max
                        (Pkts)  (Pkts)  (KB)    (KB)    %       %       (Pkts) (KB)   (Pkts) (KB)
-----
SX Transports          0.00    0.00    0.00    0.00    nan     nan     0.00   0.00   0.00   0.00
SX NICs                0.00    0.01    0.00    0.00    99.99   0.01   0.00   0.00   2.00   0.34
All NICs               0.00    0.01    0.00    0.00    99.99   0.01   0.00   0.00   2.00   0.34
SX TORs Up             nan     nan     nan     nan     nan     nan     nan    nan    nan    nan
All TORs Up            nan     nan     nan     nan     nan     nan     nan    nan    nan    nan
RX TORs Down           2.42    0.50    2.03    0.48    0.04    0.02   0.00   0.00   5.00   2.98
All TORs Down          1.83    0.38    1.53    0.37    24.35   0.02   0.00   0.00   5.00   2.98
    
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Queue Wait Time Stats

Packet Type: Request

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Queue Location         mean     mean     stddev   min     median   75%ile   99%ile   max     count
                        (us)    (%)     (us)    (us)    (us)    (us)    (us)    (us)
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Host NICs:            0.00    0.01    -nan     0.00    0.00    0.00    0.00    0.28   14524
TORs upward NICs:    0.00    0.00    0.00     inf     0.00    0.00    0.00    0.00    0
Aggr Switch NICs:    0.00    0.00    0.00     inf     0.00    0.00    0.00    0.00    0
TORs downward NICs:  0.62    99.99   0.36     0.00    0.57    0.90    1.15    1.23   14523
Total:                0.62    100.00
    
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Packet Type: Unsched. Data

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=====
Queue Location         mean     mean     stddev   min     median   75%ile   99%ile   max     count
                        (us)    (us)    (us)    (us)    (us)    (us)    (us)
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	(us)	(%)	(us)	(us)	(us)	(us)	(us)	(us)	(us)
Host NICs:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
TORs upward NICs:	0.00	0.00	0.00	inf	0.00	0.00	0.00	0.00	0
Aggr Switch NICs:	0.00	0.00	0.00	inf	0.00	0.00	0.00	0.00	0
TORs downward NICs:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
Total	0.00	0.00							

Packet Type: Grant

Queue Location	mean (us)	mean (%)	stddev (us)	min (us)	median (us)	75%ile (us)	99%ile (us)	max (us)	count
Host NICs:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6869
TORs upward NICs:	0.00	0.00	0.00	inf	0.00	0.00	0.00	0.00	0
Aggr Switch NICs:	0.00	0.00	0.00	inf	0.00	0.00	0.00	0.00	0
TORs downward NICs:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6869
Total:	0.00	0.00							

Packet Type: Sched. Data

Queue Location	mean (us)	mean (%)	stddev (us)	min (us)	median (us)	75%ile (us)	99%ile (us)	max (us)	count
Host NICs:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6869
TORs upward NICs:	0.00	0.00	0.00	inf	0.00	0.00	0.00	0.00	0
Aggr Switch NICs:	0.00	0.00	0.00	inf	0.00	0.00	0.00	0.00	0
TORs downward NICs:	1.62	100.00	0.08	0.00	1.68	1.68	1.68	2.78	6869
Total	1.62	100.00							

packet Type: All Pkts

Queue Location	mean (us)	mean (%)	stddev (us)	min (us)	median (us)	75%ile (us)	99%ile (us)	max (us)	count
SX Host NICs:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.28	21395
SX TORs UP NICs:	0.00	0.00	0.00	inf	0.00	0.00	0.00	0.00	0
Aggr Switch NICs:	0.00	0.00	0.00	inf	0.00	0.00	0.00	0.00	0
RX TORs Down NICs:	0.94	100.00	0.55	0.00	0.90	1.46	1.68	2.78	21393
Total	0.94	100.00							

|End To End Message Latency For Different Ranges of Message Sizes|

Msg Size Range	mean (us)	stddev (us)	min (us)	median (us)	75%ile (us)	99%ile (us)	max (us)	count	count (%)
(0, 100]	2.65	0.36	2.02	2.41	2.76	3.10	5.17	14521	99.99
(100, 1448]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00
(1448, 10000]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00
(10000, 100000]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00
(100000, 1000000]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00
(1000000, Huge]	10573.76	-nan	10573.76	10573.76	10573.76	10573.76	10573.76	1	0.01

|Total Queue Delay (ie. real\_e2e\_latency - ideal\_e2e\_latency) For Different Ranges of Message Sizes|

Msg Size Range	mean (us)	stddev (us)	min (us)	median (us)	75%ile (us)	99%ile (us)	max (us)	count	count (%)
(0, 100]	0.63	0.36	0.01	0.63	0.84	1.05	3.15	14521	99.99
(100, 1448]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00
(1448, 10000]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00
(10000, 100000]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00
(100000, 1000000]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00
(1000000, Huge]	2212.06	-nan	2212.06	2212.06	2212.06	2212.06	2212.06	1	0.01

