
General Simulation Information

Num Servers Per TOR:	4	Num Sender Hosts:	28	Load Factor:	%0.1785714
Num TORs:	8	Num Receiver Hosts:	1	Start Time:	0s
Server Link Speed:	10Gb/s	Workload Type:	TEST_DIST	Stop Time:	9.5s
Fabric Link Speed:	40Gb/s	InterArrival Dist:	exponential	Warmup 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		

Receiver's Outstanding Bytes(@ packet arrivals) and Grants (@ new grants)

In Flight Bytes	mean (KB)	stddev (KB)	min (KB)	median (KB)	75%ile (KB)	99%ile (KB)	max (KB)	count
Outstanding Grant Bytes:	11.96	2.61	0.94	10.63	13.71	16.02	16.46	3916458
Outstanding Total Bytes:	10.06	3.23	0.00	9.16	12.26	14.71	16.91	4231512

Homa Packets Traffic Rates

Homa Packet Type	AvgRate (Mb/s)	CumRate (Mb/s)	MinRate (Mb/s)	MaxRate (Mb/s)
SX NICs Req. SxRate:	1.02	28.65	0.99	1.04
SX NICs Unshed. SxRate:	1.80	50.42	1.73	1.88
SX NICs Sched. SxRate:	176.05	4929.36	163.36	188.84
RX NICs Grant SxRate:	217.67	217.67	217.67	217.67

Traffic Characteristic (Rates, Bytes, and DutyCycle)

Measurement Point	AvgRate (Gb/s)	CumRate (Gb/s)	MinRate (Gb/s)	MaxRate (Gb/s)	CumBytes (MB)	Avg Duty Cycle(%)	Min Duty Cycle(%)	Max Duty Cycle(%)
SX Apps Send:	0.17	4.79	0.16	0.18	5684.48			
SX NICs Send:	0.18	5.01	0.17	0.19	5947.67	1.80	1.67	1.93
All NICs Send:	0.16	5.23	0.00	0.22	6206.16	1.65	0.00	2.44
TORs Down Recv:	0.16	5.23	0.00	0.22	6206.16	1.65	0.00	2.44
TORs Up Send:	0.65	5.23	0.22	0.73	6206.16	1.65	0.61	1.84
TORs Up Recv:	0.65	5.23	0.03	5.01	6206.16	1.65	0.08	12.59
TORs Down Send:	0.16	5.23	0.00	5.01	6206.16	1.65	0.00	50.37
ALL NICs Recv:	0.16	5.23	0.00	5.01	6206.16	1.65	0.00	50.37
RX NICs Recv:	5.01	5.01	5.01	5.01	5947.67	50.37	50.37	50.37
RX Apps Recv:	4.79	4.79	4.79	4.79	5684.48			

Queue Length (Stats Collected At Pkt Arrivals)

Queue Location	Mean (Pkts)	StdDev (Pkts)	Mean (KB)	StdDev (KB)	Empty %	OnePkt %	Min (Pkts)	Min (KB)	Max (Pkts)	Max (KB)
SX Transports	0.03	0.17	2.24	22.46	nan	nan	0.00	0.00	3.00	1098.80
SX NICs	0.06	0.23	0.02	0.11	94.54	5.35	0.00	0.00	3.00	2.42
All NICs	0.03	0.12	0.01	0.06	97.17	2.78	0.00	0.00	3.00	2.42
SX TORs Up	0.00	0.05	0.00	0.04	99.79	0.21	0.00	0.00	2.00	1.74
All TORs Up	0.00	0.02	0.00	0.02	99.89	0.11	0.00	0.00	2.00	1.74
RX TORs Down	1.76	1.60	2.00	2.12	25.64	28.67	0.00	0.00	11.00	9.49
All TORs Down	0.92	0.83	1.04	1.10	61.38	14.89	0.00	0.00	11.00	9.49

Queue Wait Time Stats

Packet Type: Request

Queue Location	mean (us)	mean (%)	stddev (us)	min (us)	median (us)	75%ile (us)	99%ile (us)	max (us)	count
Host NICs:	0.01	0.85	0.10	0.00	0.00	0.00	0.48	1.83	210014
TORs upward NICs:	0.00	0.37	0.03	0.00	0.00	0.00	0.15	0.31	210014
Aggr Switch NICs:	0.03	2.01	0.07	0.00	0.00	0.00	0.26	0.39	210014
TORs downward NICs:	1.27	96.78	1.75	0.00	0.00	1.71	5.55	7.53	210014
Total:	1.31	100.00							

Packet Type: Unshed. Data

Queue Location	mean	mean	stddev	min	median	75%ile	99%ile	max	count
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End To End Message Stretch For Different Ranges of Message Sizes

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Msg Size Range	mean	stddev	min	median	75%ile	99%ile	max	count	count%
(0, 100]	1.52	0.70	1.00	1.07	1.60	3.21	4.15	104974	49.98
(100, 1456]	2.31	0.75	1.72	1.82	2.43	3.95	4.68	31347	14.93
(1456, 10000]	1.61	0.32	1.37	1.37	1.56	2.35	3.46	21234	10.11
(10000, 100000]	1.54	0.81	1.06	1.06	1.36	4.07	18.56	52270	24.89
(100000, 1000000]	1.96	0.62	1.02	1.78	2.08	4.16	4.45	189	0.09
(1000000, Huge]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00

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