

UTP Q4 2023 - December Tape C Quote Metrics

Quarter	System Availability (1)	Peak Messages Per Second (thousands)	Capacity Messages Per Second (thousands)	Capacity vs Peak Ratio	Peak Messages Per 100 (thousands) (2)	Capacity Messages Per 100 (thousands)	Capacity vs Peak Ratio	Peak Messages Per 10 (thousands)	Peak Messages Per 1 Millisecond (thousands)	Peak Transactions Per Day (millions)	Capacity Transactions Per Day (millions)	Average Latency (µs)	Median Latency (µs)	10th Percentile Latency (µs)	90th Percentile Latency (µs)	99th Percentile Latency (µs)
1Q18	100.00%	266.4	2,809.8	10.5:1	72.3	283.1	3.9:1	n/a	n/a	412.3	5,461.5	16.7	16.5	15.4	18.2	22.2
2Q18	100.00%	317.6	2,809.8	8.8:1	68.5	283.1	4.1:1	n/a	n/a	279.8	5,461.5	16.8	16.6	15.5	18.2	22.7
3Q18	100.00%	295.6	2,809.8	9.5:1	70.7	283.1	4.0:1	n/a	n/a	205.3	5,461.5	16.8	16.5	15.4	18.0	22.4
4Q18	100.00%	297.6	3,075.9	10.3:1	83.7	308.4	3.7:1	n/a	n/a	476.1	5,461.5	16.9	16.6	15.5	18.6	23.8
1Q19	100.00%	372.3	3,075.9	8.3:1	81.6	308.4	3.8:1	20.4	3.4	321.5	5,461.5	17.0	16.6	15.5	18.6	24.5
2Q19	100.00%	338.9	3,075.9	9.1:1	75.6	308.4	4.1:1	20.0	3.4	301.2	5,461.5	16.9	16.5	15.4	18.4	23.3
3Q19	100.00%	361.9	3,075.9	8.5:1	74.5	308.4	4.1:1	19.5	3.3	314.9	5,461.5	16.9	16.5	15.4	18.4	22.9
4Q19	100.00%	356.1	3,075.9	8.6:1	97.2	310.8	3.2:1	18.8	3.3	264.5	5,461.5	16.8	16.5	15.5	18.4	22.7
1Q20	100.00%	324.7	3,075.9	9.5:1	95.8	310.8	3.2:1	20.5	3.4	614.8	5,461.5	16.8	16.5	15.4	18.4	22.9
2Q20	100.00%	334.3	3,075.9	9.2:1	87.9	310.8	3.5:1	17.8	3.4	570.3	5,461.5	15.0	14.5	13.5	16.2	20.1
3Q20	100.00%	322.4	3,490.0	10.8:1	90.6	1,290.0	14.2:1	16.1	3.5	534.9	16,777.8	13.2	13.0	12.0	14.6	18.0
4Q20	100.00%	372.5	3,490.0	9.4:1	91.3	1,290.0	14.1:1	18.9	5.6	462.7	16,777.8	13.0	12.8	11.7	14.5	19.0
1Q21	100.00%	493.2	3,490.0	7.1:1	101.3	1,290.0	12.7:1	18.2	4.4	884.0	16,777.8	13.1	12.8	11.7	14.5	18.6
2Q21	100.00%	545.1	3,490.0	6.4:1	95.8	1,290.0	13.5:1	18.4	4.8	822.0	16,777.8	13.2	13.0	11.7	14.6	19.1
3Q21	100.00%	484.6	4,031.8	8.3:1	105.8	1,876.9	17.7:1	22.1	5.0	778.0	16,450.0	13.1	12.8	11.7	14.6	18.8
4Q21	100.00%	353.4	4,031.8	11.4:1	94.0	1,876.9	20.0:1	23.7	5.2	737.9	16,450.0	13.1	12.8	11.7	14.6	19.1
1Q22	100.00%	360.0	4,031.8	11.2:1	100.5	1,876.9	18.7:1	26.6	5.2	1,010.1	16,450.0	13.4	13.0	11.9	15.1	20.9
Jan 2022	n/a	312.3	4,031.8	12.9:1	91.6	1,876.9	20.5:1	25.0	5.2	1,010.1	16,450.0	13.3	13.0	11.9	14.9	20.7
Feb 2022	n/a	332.9	4,031.8	12.1:1	96.9	1,876.9	19.4:1	26.6	5.2	933.4	16,450.0	13.3	13.0	11.9	15.1	20.7
Mar 2022	n/a	360.0	4,031.8	11.2:1	100.5	1,876.9	18.7:1	24.4	5.1	919.1	16,450.0	13.4	13.1	12.0	15.1	21.1
2Q22	100.00%	408.3	4,600.7	11.3:1	108.0	1,876.9	17.4:1	32.0	5.5	997.6	20,423.5	13.6	13.2	12.1	15.4	19.7
Apr 2022	n/a	370.7	4,031.8	10.9:1	106.5	1,876.9	17.6:1	32.0	5.4	860.8	16,450.0	13.5	13.2	12.1	15.2	19.6
May 2022	n/a	404.4	4,031.8	10.0:1	105.6	1,876.9	17.8:1	30.5	5.3	997.6	16,450.0	13.6	13.2	12.1	15.4	19.9
Jun 2022	n/a	408.3	4,600.7	11.3:1	108.0	1,876.9	17.4:1	28.6	5.5	838.7	20,423.5	13.5	13.2	12.1	15.2	19.7
3Q22	100.00%	402.3	4,600.7	11.4:1	109.8	1,876.9	17.1:1	31.1	5.7	829.5	20,423.5	13.6	13.2	12.1	15.4	19.9
Jul 2022	n/a	372.2	4,600.7	12.4:1	102.4	1,876.9	18.3:1	29.7	5.2	751.0	20,423.5	13.5	13.2	12.1	15.2	19.5
Aug 2022	n/a	384.9	4,600.7	12.0:1	109.5	1,876.9	17.1:1	30.6	5.4	700.7	20,423.5	13.5	13.2	12.1	15.2	19.7
Sep 2022	n/a	402.3	4,600.7	11.4:1	109.8	1,876.9	17.1:1	31.1	5.7	829.5	20,423.5	13.6	13.2	12.1	15.5	20.5
4Q22	100.00%	440.5	4,600.7	10.4:1	121.4	1,876.9	15.5:1	31.4	5.6	942.6	20,423.5	13.6	13.2	12.1	15.4	20.1
Oct 2022	n/a	376.0	4,600.7	12.2:1	114.2	1,876.9	16.4:1	28.7	5.5	942.6	20,423.5	13.6	13.2	12.1	15.5	20.3
Nov 2022	n/a	440.5	4,600.7	10.4:1	115.9	1,876.9	16.2:1	30.1	5.6	754.4	20,423.5	13.6	13.2	12.1	15.4	20.1
Dec 2022	n/a	401.4	4,600.7	11.5:1	121.4	1,876.9	15.5:1	31.4	5.5	725.5	20,423.5	13.6	13.2	12.1	15.2	19.5
1Q23	100.00%	452.2	4,600.7	10.2:1	120.8	1,876.9	15.5:1	27.7	5.2	945.8	20,423.5	13.6	13.2	12.1	15.3	20.1
Jan 2023	n/a	400.2	4,600.7	11.5:1	111.7	1,876.9	16.8:1	27.7	5.2	623.5	20,423.5	13.6	13.2	12.1	15.2	19.7
Feb 2023	n/a	448.5	4,600.7	10.3:1	115.2	1,876.9	16.3:1	27.7	5.1	697.4	20,423.5	13.6	13.2	12.1	15.4	20.3
Mar 2023	n/a	452.2	4,600.7	10.2:1	120.8	1,876.9	15.5:1	25.2	5.0	945.8	20,423.5	13.6	13.2	12.1	15.4	20.1
2Q23	100.00%	441.2	4,600.7	10.4:1	121.7	2,483.8	20.4:1	31.3	5.2	579.9	20,823.1	13.6	13.1	12.1	15.1	19.7
Apr 2023	n/a	350.8	4,600.7	13.1:1	121.7	1,876.9	15.4:1	31.3	5.2	504.8	20,423.5	13.4	13.1	12.0	15.1	19.7
May 2023	n/a	441.2	4,600.7	10.4:1	116.9	1,876.9	16.1:1	29.5	4.7	579.9	20,423.5	13.4	13.1	12.1	15.1	19.5
Jun 2023	n/a	373.1	4,600.7	12.3:1	116.3	2,483.8	21.4:1	30.4	4.8	573.8	20,823.1	13.9	13.1	12.1	15.1	19.7
3Q23	100.00%	410.2	4,600.7	11.2:1	124.4	2,483.8	20.0:1	33.8	6.0	634.4	20,823.1	15.4	13.1	12.1	14.9	19.3
Jul 2023	n/a	337.0	4,600.7	13.7:1	124.4	2,483.8	20.0:1	33.8	5.3	558.7	20,823.1	15.4	13.1	12.1	14.9	19.2
Aug 2023	n/a	370.2	4,600.7	12.4:1	122.4	2,483.8	20.3:1	31.6	6.0	634.4	20,823.1	15.5	13.1	12.1	15.1	19.3
Sep 2023	n/a	410.2	4,600.7	11.2:1	119.8	2,483.8	20.7:1	33.3	4.8	566.2	20,823.1	15.2	13.1	12.1	15.0	19.3
4Q23	100.00%	449.4	4,600.7	10.2:1	133.2	2,483.8	18.6:1	36.1	4.7	760.4	20,823.1	14.4	13.0	12.0	14.8	19.3
Oct 2023	n/a	391.3	4,600.7	11.8:1	116.8	2,483.8	21.3:1	35.4	4.7	760.4	20,823.1	14.9	13.2	12.1	15.2	19.7
Nov 2023	n/a	391.1	4,600.7	11.8:1	133.2	2,483.8	18.6:1	33.9	4.4	628.3	20,823.1	14.1	13.0	11.9	14.8	18.9
Dec 2023	n/a	449.4	4,600.7	10.2:1	130.3	2,483.8	19.1:1	36.1	4.3	742.2	20,823.1	14.0	12.8	11.9	14.7	19.0

(1) Beginning Q1 2016 measurement of System Availability is reflective of the entire environment and no longer by data service, on a quarterly basis in accordance with the SLA with the UTP committee.

(2) Beginning Q1 2014, capacity planning interval changed from 1-second to 100-milliseconds.

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Quarter	System Availability (1)	Peak Messages Per Second (thousands)	Capacity Messages Per Second (thousands)	Capacity vs Peak Ratio	Peak Messages Per 100 (thousands) (2)	Capacity Messages Per 100 (thousands)	Capacity vs Peak Ratio	Peak Messages Per 10 (thousands)	Peak Messages Per 1 Millisecond (thousands)	Peak Transactions Per Day (millions)	Capacity Transactions Per Day (millions)	Average Latency (µs)	Median Latency (µs)	10th Percentile Latency (µs)	90th Percentile Latency (µs)	99th Percentile Latency (µs)
1Q18	100.00%	76.5	2,741.2	35.8:1	17.2	300.0	17.4:1	n/a	n/a	22.3	3,691.9	17.5	17.5	16.3	18.9	21.1
2Q18	100.00%	98.1	2,741.2	28.0:1	18.5	300.0	16.3:1	n/a	n/a	17.2	3,691.9	17.4	17.4	16.3	18.8	20.9
3Q18	100.00%	94.5	2,741.2	29.0:1	22.3	300.0	13.5:1	n/a	n/a	16.5	3,691.9	17.5	17.3	16.3	18.8	20.7
4Q18	100.00%	68.5	3,143.7	45.9:1	18.5	300.0	16.2:1	n/a	n/a	22.1	4,200.0	17.5	17.3	16.3	18.8	20.7
1Q19	100.00%	89.8	3,143.7	35.0:1	17.8	300.0	16.8:1	7.3	3.3	17.7	4,200.0	17.5	17.3	16.3	18.8	20.7
2Q19	100.00%	99.4	3,143.7	31.6:1	28.1	300.0	10.7:1	7.8	3.4	19.6	4,200.0	17.5	17.3	16.3	18.9	21.1
3Q19	100.00%	84.5	3,143.7	37.2:1	33.1	300.0	9.1:1	8.2	3.3	20.7	4,200.0	17.5	17.3	16.2	18.9	21.3
4Q19	100.00%	95.4	3,143.7	33.0:1	35.8	350.8	9.8:1	8.1	3.3	18.4	4,200.0	17.5	17.3	16.3	18.9	21.3
1Q20	100.00%	56.0	3,143.7	56.1:1	31.6	350.8	11.1:1	8.4	3.4	36.7	4,200.0	17.6	17.3	16.3	19.1	23.1
2Q20	100.00%	84.4	3,143.7	37.2:1	32.2	350.8	10.9:1	9.5	3.5	33.3	4,200.0	15.8	15.2	14.1	16.6	20.7
3Q20	100.00%	101.1	3,560.0	35.2:1	28.0	1,330.0	47.5:1	8.0	3.6	35.5	11,058.8	14.9	14.2	12.8	15.7	22.0
4Q20	100.00%	95.2	3,560.0	37.4:1	28.0	1,330.0	47.4:1	9.9	3.9	38.8	11,058.8	15.0	13.9	12.7	15.5	23.6
1Q21	100.00%	442.6	3,560.0	8.0:1	47.1	1,330.0	28.3:1	8.5	4.2	54.3	11,058.8	24.4	13.9	12.7	15.5	24.5
2Q21	100.00%	144.6	3,560.0	24.6:1	26.2	1,330.0	50.8:1	7.2	4.7	39.6	11,058.8	14.8	14.1	12.8	15.5	22.7
3Q21	100.00%	136.5	3,955.8	29.0:1	29.4	1,329.0	45.3:1	9.3	4.9	37.9	12,300.0	14.7	14.1	12.8	15.7	23.1
4Q21	100.00%	156.4	3,955.8	25.3:1	26.7	1,329.0	49.8:1	13.5	5.1	47.2	12,300.0	18.6	14.1	12.7	15.5	23.6
1Q22	100.00%	148.8	3,955.8	26.6:1	36.4	1,329.0	36.5:1	12.3	5.3	60.5	12,300.0	14.6	13.9	12.7	15.5	23.3
Jan 2022	n/a	85.5	3,955.8	46.3:1	24.2	1,329.0	55.0:1	12.3	5.0	60.5	12,300.0	14.8	13.9	12.7	15.5	24.0
Feb 2022	n/a	99.3	3,955.8	39.8:1	30.3	1,329.0	43.9:1	8.0	5.2	53.0	12,300.0	14.6	13.9	12.7	15.5	22.7
Mar 2022	n/a	148.8	3,955.8	26.6:1	36.4	1,329.0	36.5:1	8.1	5.3	49.7	12,300.0	14.5	14.1	12.8	15.7	23.3
2Q22	100.00%	163.1	4,339.3	26.6:1	34.5	1,540.0	44.6:1	9.5	5.3	52.2	10,003.7	14.9	14.2	13.0	16.0	22.7
Apr 2022	n/a	83.3	3,955.8	47.5:1	25.6	1,329.0	52.0:1	9.5	5.2	42.1	12,300.0	14.9	14.2	13.0	16.0	22.8
May 2022	n/a	136.3	3,955.8	29.0:1	31.3	1,329.0	42.5:1	9.2	5.1	52.2	12,300.0	15.0	14.2	13.0	15.8	22.4
Jun 2022	n/a	163.1	4,339.3	26.6:1	34.5	1,540.0	44.6:1	8.5	5.3	46.6	10,003.7	14.8	14.2	13.0	16.0	22.9
3Q22	100.00%	139.6	4,339.3	31.1:1	39.7	1,540.0	38.8:1	9.7	5.5	40.8	10,003.7	14.8	14.2	13.1	15.8	22.0
Jul 2022	n/a	82.0	4,339.3	52.9:1	31.5	1,540.0	48.8:1	9.1	5.0	37.2	10,003.7	14.7	14.2	13.1	15.8	22.0
Aug 2022	n/a	82.5	4,339.3	52.6:1	29.6	1,540.0	52.0:1	8.1	5.4	38.9	10,003.7	14.8	14.2	13.1	15.8	22.0
Sep 2022	n/a	139.6	4,339.3	31.1:1	39.7	1,540.0	38.8:1	9.7	5.5	40.8	10,003.7	14.9	14.2	13.0	15.8	22.0
4Q22	100.00%	161.9	4,339.3	26.8:1	41.7	1,540.0	37.0:1	11.8	5.4	47.0	10,003.7	15.2	14.2	13.1	16.0	22.4
Oct 2022	n/a	75.9	4,339.3	57.2:1	27.3	1,540.0	56.3:1	9.4	5.2	40.4	10,003.7	15.0	14.2	13.1	16.0	22.4
Nov 2022	n/a	118.8	4,339.3	36.5:1	25.7	1,540.0	60.0:1	8.3	5.4	47.0	10,003.7	15.3	14.3	13.1	16.0	23.6
Dec 2022	n/a	161.9	4,339.3	26.8:1	41.7	1,540.0	37.0:1	11.8	5.4	42.5	10,003.7	15.2	14.2	13.1	15.8	21.3
1Q23	100.00%	133.2	4,339.3	32.6:1	37.1	1,540.0	41.5:1	10.3	5.1	47.4	10,003.7	14.7	14.2	13.1	15.8	21.4
Jan 2023	n/a	85.5	4,339.3	50.7:1	32.5	1,540.0	47.3:1	8.5	5.1	36.7	10,003.7	14.6	14.2	13.1	15.8	21.3
Feb 2023	n/a	83.2	4,339.3	52.1:1	34.2	1,540.0	45.0:1	8.6	4.9	47.4	10,003.7	14.7	14.2	13.1	15.8	21.3
Mar 2023	n/a	133.2	4,339.3	32.6:1	37.1	1,540.0	41.5:1	10.3	4.9	46.7	10,003.7	14.6	14.2	13.1	15.8	21.8
2Q23	100.00%	137.5	4,339.3	31.6:1	40.0	2,765.0	69.2:1	11.6	5.0	40.7	11,047.8	14.9	14.3	13.1	16.0	23.8
Apr 2023	n/a	73.5	4,339.3	59.1:1	32.5	1,540.0	47.5:1	9.9	5.0	36.0	10,003.7	14.9	14.3	13.1	16.0	23.3
May 2023	n/a	127.4	4,339.3	34.1:1	39.4	1,540.0	39.1:1	11.5	4.4	38.6	10,003.7	14.8	14.3	13.1	16.0	23.7
Jun 2023	n/a	137.5	4,339.3	31.6:1	40.0	2,765.0	69.2:1	11.6	4.7	40.7	11,047.8	14.8	14.2	13.1	16.2	24.3
3Q23	100.00%	128.8	4,339.3	33.7:1	46.7	2,765.0	59.2:1	11.9	5.1	40.2	11,047.8	14.8	14.2	13.1	16.0	24.0
Jul 2023	n/a	80.8	4,339.3	53.7:1	33.0	2,765.0	83.8:1	11.0	5.1	39.3	11,047.8	14.8	14.2	13.1	16.0	23.9
Aug 2023	n/a	77.4	4,339.3	56.0:1	37.4	2,765.0	73.9:1	10.2	4.5	40.2	11,047.8	14.8	14.2	13.1	16.0	23.8
Sep 2023	n/a	128.8	4,339.3	33.7:1	46.7	2,765.0	59.2:1	11.9	4.6	37.7	11,047.8	14.9	14.2	13.1	16.2	24.3
4Q23	100.00%	130.2	4,339.3	33.3:1	50.2	2,765.0	55.1:1	10.8	4.2	49.3	11,047.8	14.7	14.2	13.0	16.0	23.3
Oct 2023	n/a	65.5	4,339.3	66.2:1	33.2	2,765.0	83.2:1	10.6	3.2	38.1	11,047.8	14.8	14.2	13.1	16.0	23.3
Nov 2023	n/a	106.5	4,339.3	40.7:1	42.4	2,765.0	65.2:1	10.8	4.2	39.4	11,047.8	14.6	14.1	13.0	16.0	23.1
Dec 2023	n/a	130.2	4,339.3	33.3:1	50.2	2,765.0	55.1:1	10.4	3.9	49.3	11,047.8	14.7	14.1	13.0	16.1	23.3

(1) Beginning Q1 2016 measurement of System Availability is reflective of the entire environment and no longer by data service, on a quarterly basis in accordance with the SLA with the UTP committee.

(2) Beginning Q1 2014, capacity planning interval changed from 1-second to 100-milliseconds.

(3) Beginning Q1 2016, 10th and 99th percentile latency measurements have been included.