

Key Operating Metrics of U.S. Options Securities Information Processor (OPRA SIP)

Quarter	System Availability (1)	Peak Messages Per Second (millions)	Capacity Messages Per Second (millions)	Capacity vs Peak Ratio	Peak Messages Per 100 Milliseconds (millions)	Capacity Messages Per 100 Milliseconds (millions)	Capacity vs Peak Ratio	Peak Messages Per 10 Milliseconds (millions)	Peak Messages Per 1 Millisecond (millions)	Peak Transactions Per Day (billions)	Capacity Transactions Per Day (billions)	Average Latency (us) (2)	Median Latency (us)	10th Percentile Latency (us)	90th Percentile Latency (us)	99th Percentile Latency (us)
1Q24	100.00%	45.9	n/a	n/a	6.9	11.0	1.6:1	0.80	0.08	195.3	1000	31.3	20.5	17.5	29.5	66.5
Jan '24	100.00%	42.4	n/a	n/a	6.4	11.0	1.7:1	0.70	0.08	195.3	400	40.5	19.5	16.5	29.5	543.5
Feb '24	100.00%	45.9	n/a	n/a	6.7	11.0	1.6:1	0.80	0.08	156.9	1000	27.0	20.5	17.5	29.0	57.5
Mar '24	100.00%	44.4	n/a	n/a	6.9	11.0	1.6:1	0.80	0.08	173.9	1000	26.1	20.5	17.5	29.5	62.5
2Q24	99.999%	44.5	n/a	n/a	6.7	11.6	1.7:1	0.80	0.08	180.6	1000	25.8	20.5	17.5	29.5	58.5
Apr '24	99.999%	44.5	n/a	n/a	6.7	11.6	1.7:1	0.80	0.08	188.1	1000	26.8	20.5	17.5	29.5	61.0
May '24	100.00%	41.3	n/a	n/a	6.2	11.6	1.9:1	0.77	0.08	180.6	1000	25.4	20.5	17.5	29.5	56.0
Jun '24	100.00%	41.2	n/a	n/a	6.4	11.6	1.8:1	0.74	0.08	179.2	1000	25.2	20.5	17.5	28.5	53.5
3Q24	99.999%	44.8	n/a	n/a	6.7	12.1	1.8:1	0.79	0.09	232.6	1000	27.5	20.5	17.5	30.5	65.0
Jul '24	100.00%	36.3	n/a	n/a	5.8	12.1	2.1:1	0.70	0.07	214.1	1000	26.7	20.5	17.5	29.5	62.5
Aug '24	99.999%	43.7	n/a	n/a	6.1	12.1	2.0:1	0.77	0.08	232.6	1000	26.7	20.5	17.5	30.5	63.0
Sep '24	99.999%	44.8	n/a	n/a	6.7	12.1	1.8:1	0.79	0.09	201.4	1000	29.1	20.5	17.5	30.5	85.5
4Q24	100.00%	44.3	n/a	n/a	6.7	12.5	1.9:1	0.83	0.11	205.1	1000	30.7	20.5	17.5	30.5	140.5
Oct '24	100.00%	44.3	n/a	n/a	6.7	12.5	1.9:1	0.80	0.09	205.1	1000	30.1	20.5	17.5	30.5	111.5
Nov '24	100.00%	43.3	n/a	n/a	6.5	12.5	1.9:1	0.83	0.09	179.7	1000	31.3	20.5	17.5	31.5	174.5
Dec '24	100.00%	39.5	n/a	n/a	6.2	12.5	2.0:1	0.79	0.11	181.9	1000	30.8	20.5	17.5	30.5	140.5
1Q25	100.00%	50.3	n/a	n/a	8.0	13.0	1.6:1	0.94	0.23	279.1	1000	33.2	19.5	15.5	30.5	272.0
Jan '25	100.00%	42.7	n/a	n/a	6.8	13.0	1.9:1	0.80	0.19	220.2	1000	32.0	21.0	17.5	31.5	208.0
Feb '25	100.00%	47.6	n/a	n/a	7.3	13.0	1.8:1	0.87	0.13	227.5	1000	33.5	18.5	15.5	29.5	307.5
Mar '25	100.00%	50.3	n/a	n/a	8.0	13.0	1.6:1	0.94	0.23	279.1	1000	33.9	19.5	15.5	30.5	287.5
2Q25	100.00%	54.2	n/a	n/a	8.3	13.0	1.6:1	0.92	0.19	345.9	1000	35.2	17.5	14.5	27.5	423.5
Apr '25	100.00%	54.2	n/a	n/a	8.3	13.0	1.6:1	0.92	0.19	345.9	1000	33.8	18.5	14.5	28.5	363.5
May '25	100.00%	52.4	n/a	n/a	8.1	13.0	1.6:1	0.90	0.16	221.4	1000	35.1	17.5	14.5	27.5	440.5
Jun '25	100.00%	52.6	n/a	n/a	8.2	13.0	1.6:1	0.90	0.19	206.6	1000	36.9	17.5	14.5	27.5	479.0
3Q25	99.994%	54.8	n/a	n/a	9.2	13.5	1.5:1	1.05	0.23	257.0	1000	49.9	17.5	14.5	29.5	970.5
Jul '25	99.981%	52.8	n/a	n/a	8.2	13.5	1.6:1	0.99	0.23	240.0	1000	44.8	17.5	14.5	28.5	795.5
Aug '25	100.000%	50.6	n/a	n/a	8.5	13.5	1.6:1	1.03	0.19	253.4	1000	47.6	17.5	14.5	29.5	900.5
Sep '25	100.000%	54.8	n/a	n/a	9.2	13.5	1.5:1	1.05	0.22	257.0	1000	57.4	17.5	14.5	31.5	1,229.5
4Q25	99.990%	51.9	n/a	n/a	8.6	13.5	1.6:1	1.05	0.22	253.3	1000	56.3	18.5	14.5	33.5	1,320.5
Oct '25	99.973%	51.9	n/a	n/a	8.6	13.5	1.6:1	1.05	0.22	248.8	1000	66.9	18.5	14.5	34.5	1,397.5
Nov '25	100.00%	49.0	n/a	n/a	8.0	13.5	1.7:1	1.03	0.21	253.3	1000	64.2	18.5	14.5	34.5	1,425.5
Dec '25	99.999%	49.9	n/a	n/a	7.3	13.5	1.8:1	1.00	0.14	183.2	1000	38.8	18.5	14.5	30.5	481.5
1Q26	100.00%	55.7	n/a	n/a	8.0	13.5	1.7:1	1.03	0.25	256.2	1000	45.7	18.5	14.5	32.5	634.5
Jan '26	100.00%	50.9	n/a	n/a	7.2	13.5	1.9:1	1.01	0.25	233.8	1000	44.6	18.5	14.5	31.5	634.5
Feb '26	100.00%	53.5	n/a	n/a	7.9	13.5	1.7:1	1.02	0.23	256.2	1000	48.5	18.5	14.5	33.5	767.5
Mar '26	100.00%	55.7	n/a	n/a	8.0	13.5	1.7:1	1.03	0.23	236.1	1000	44.4	18.5	14.5	32.5	585.5
2Q26	100.00%	61.3	n/a	n/a	8.2	13.5	1.6:1	1.03	0.34	281.0	1000	42.1	18.5	14.5	32.5	564.5
Apr '26	100.00%	57.7	n/a	n/a	7.9	13.5	1.7:1	1.03	0.22	164.6	1000	40.9	18.5	14.5	31.5	499.5
May '26	100.00%	59.2	n/a	n/a	8.2	13.5	1.6:1	0.91	0.34	199.1	1000	41.8	18.5	14.5	32.5	557.5
Jun '26	100.00%	61.3	n/a	n/a	7.8	13.5	1.7:1	0.89	0.24	281.0	1000	43.6	18.5	14.5	33.5	606.5
3Q26																
Jul '26	99.986%	63.9	n/a	n/a	7.9	13.5	1.7:1	0.89	0.35	259.8	1000	46.3	18.5	14.5	34.5	683.5
Aug '26	100.00%	59.4	n/a	n/a	7.9	13.5	1.7:1	0.91	0.18	194.8	1000	53.4	18.5	14.5	35.5	1,033.5

(1) Service level guidelines: (A) 99.98% system availability; (B) 10 minute recovery time for full system failures; (C) Operations production support 24x5 in primary and backup data center and test support provided on Tuesdays, Thursdays, and Saturdays.■

(2) Message latency is measured beginning with the timestamp taken as an inbound Participant message arrives at the application entrance to the OPRA environment, through processing into a consolidated message for Customers, to the timestamp taken as the outbound message arrives at the application exit from the OPRA environment. These timestamps are taken and correlated by a process external to the data processing applications. If the external process cannot correlate an inbound message to its corresponding outbound message or measures negative latency for a message, the message is excluded from broader latency calculations such as median message latency.