Google Docs Experiments Summary

One User Typing:

Stat	1%	2.5%	50%	97.5%	Avg	Stdev	Min
Req/Sec	183	183	720	820	590.4	233.6	183
Bytes/Sec (kB)	2140	2140	2780	17200	5470	5850	2140

Percentile	Latency (ms)
0.001	67
0.01	67
0.1	68
1	72
2.5	75
10	81
25	94
50	136
75	189
90	277
97.5	503
99	694
99.9	1395
99.99	1429
99.999	1429

Average Latency: 167ms

- **Stdev:** 124.6ms
- **Max:** 1429ms

Two Users Typing:

Stat	1%	2.5%	50%	97.5%	Avg	Stdev	Min
Req/Sec	196	196	865	1112	830.8	267.36	196
Bytes/Sec (kB)	1990	1990	3300	16000	4670	3840	1990

Percentile	Latency (ms)
0.001	61
0.01	61
0.1	64
1	68
2.5	70
10	73
25	78
50	88
75	114
90	166

Percentile	Latency (ms)
97.5	443
99	585
99.9	1489
99.99	1833
99.999	1833

Average Latency: 119.76ms

- **Stdev:** 118.85ms
- **Max:** 1833ms

One User Typing with Throttling

Stat	1%	2.5%	50%	97.5%	Avg	Stdev	Min
Req/Sec	447	447	862	1016	835	154.55	447
Bytes/Sec (kB)	1190	1190	2710	3580	2720	598	1190

Percentile	Latency (ms)
0.001	63
0.01	63
0.1	67
1	70
2.5	73
10	77
25	84
50	101
75	133
90	195
97.5	279
99	361
99.9	484
99.99	3536
99.999	3536

Average Latency: 121.02ms

- **Stdev:** 69.13ms
- **Max:** 3536ms

Two Users Typing with Throttling

Stat	1%	2.5%	50%	97.5%	Avg	Stdev	Min
Req/Sec	193	193	554	618	529.71	118.65	193
Bytes/Sec (kB)	1490	1490	1760	17200	3340	4610	1490

Percentile	Latency (ms)
0.001	61
0.01	61
0.1	65

Percentile	Latency (ms)
1	71
2.5	74
10	80
25	96
50	129
75	204
90	383
97.5	651
99	863
99.9	2097
99.99	4543
99.999	4543

Average Latency: 190.09ms

- **Stdev:** 190.51ms
- **Max:** 4543ms

One User Typing (Network Offline with Throttling)

Stat	1%	2.5%	50%	97.5%	Avg	Stdev	Min
Req/Sec	290	290	996	1132	948.5	228.11	290
Bytes/Sec (kB)	2450	2450	3330	15500	4700	3680	2450

Percentile	Latency (ms)
0.001	62
0.01	62
0.1	64
1	67
2.5	69
10	73
25	78
50	89
75	110
90	150
97.5	228
99	420
99.9	1461
99.99	1829
99.999	1829

Average Latency: 108.62ms

- **Stdev:** 88.45ms
- **Max:** 1829ms

Two Users Typing (Network Offline with Throttling)

Stat	1%	2.5%	50%	97.5%	Avg	Stdev	Min
Req/Sec	552	552	864	1030	842.9	141.65	552
Bytes/Sec (kB)	1450	1450	2450	3650	2750	665	1450

Percentile	Latency (ms)
0.001	64
0.01	64
0.1	67
1	71
2.5	73
10	79
25	86
50	102
75	135
90	189
97.5	287
99	350
99.9	486
99.99	3071
99.999	3071

Average Latency: 122.43ms

- **Stdev:** 74.42ms

- **Max:** 3071ms

Image Upload

Stat	1%	2.5%	50%	97.5%	Avg	Stdev	Min
Req/Sec	646	646	945	1020	916.8	115.02	636
Bytes/Sec (kB)	950	950	3190	12100	4610	3610	950

Percentile	Latency (ms)
0.001	62
0.01	62
0.1	65
1	69
2.5	71
10	76
25	81
50	93
75	118
90	158
97.5	258
99	338
99.9	447
99.99	679

Percentile	Latency (ms)
99.999	679

Average Latency: 110.48ms

- **Stdev:** 50.97ms

- **Max:** 679ms