Garganttua Core Runtime performances report

With no logs

OS Name : Linux
OS Version : 6.8.0-87-generic
CPU Cores : 14
Total Memory : 30 Go
Max JVM Memory : 7 Go
Total JVM Memory : 492 Mo
Java Version : 21.0.6
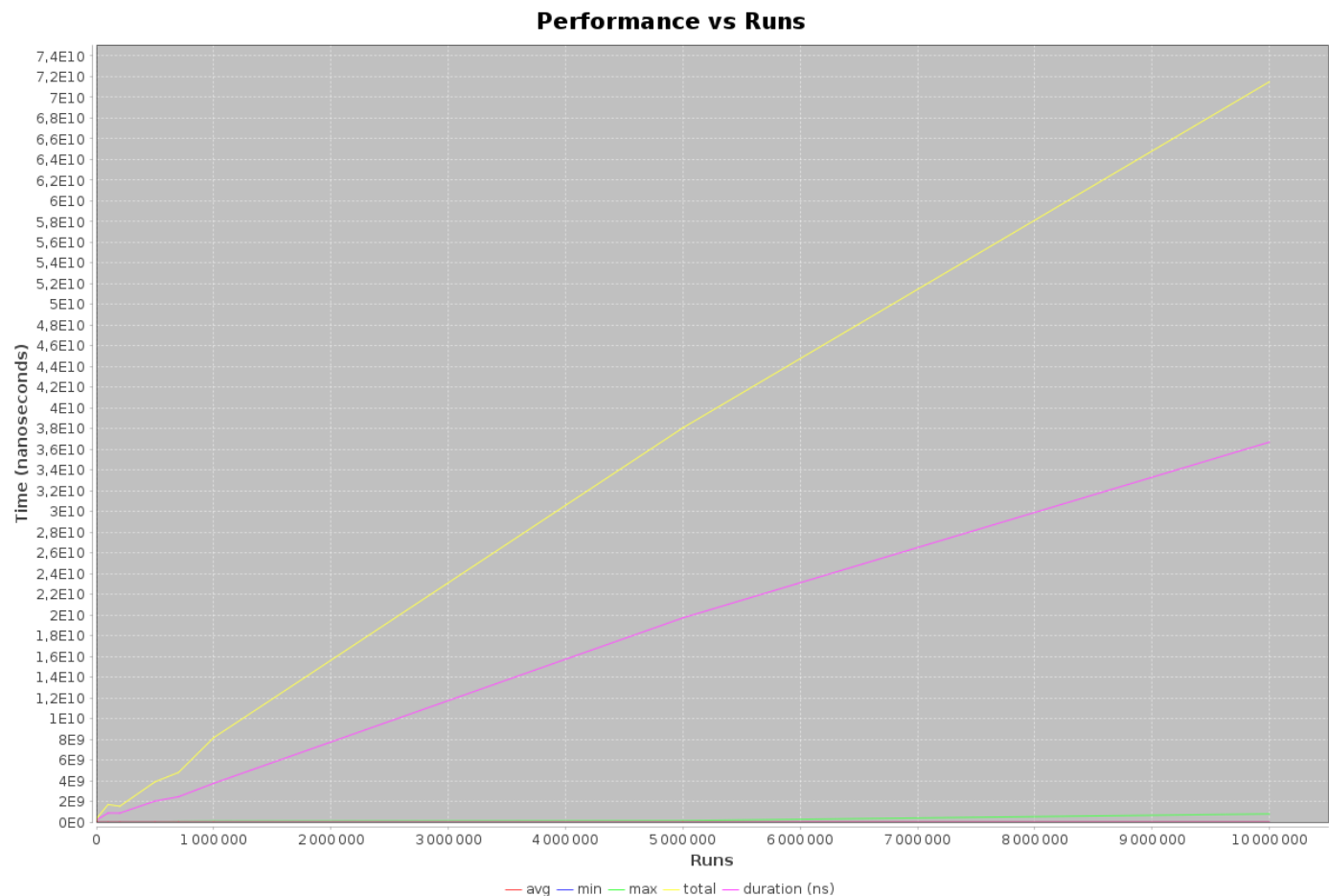Java Vendor : Eclipse Adoptium
JVM Name : OpenJDK 64-Bit Server VM
JVM Version : 21.0.6+7-LTS

Simple Use Case

Test Runtime with one step that concatenates strings injected in parameters, including input.
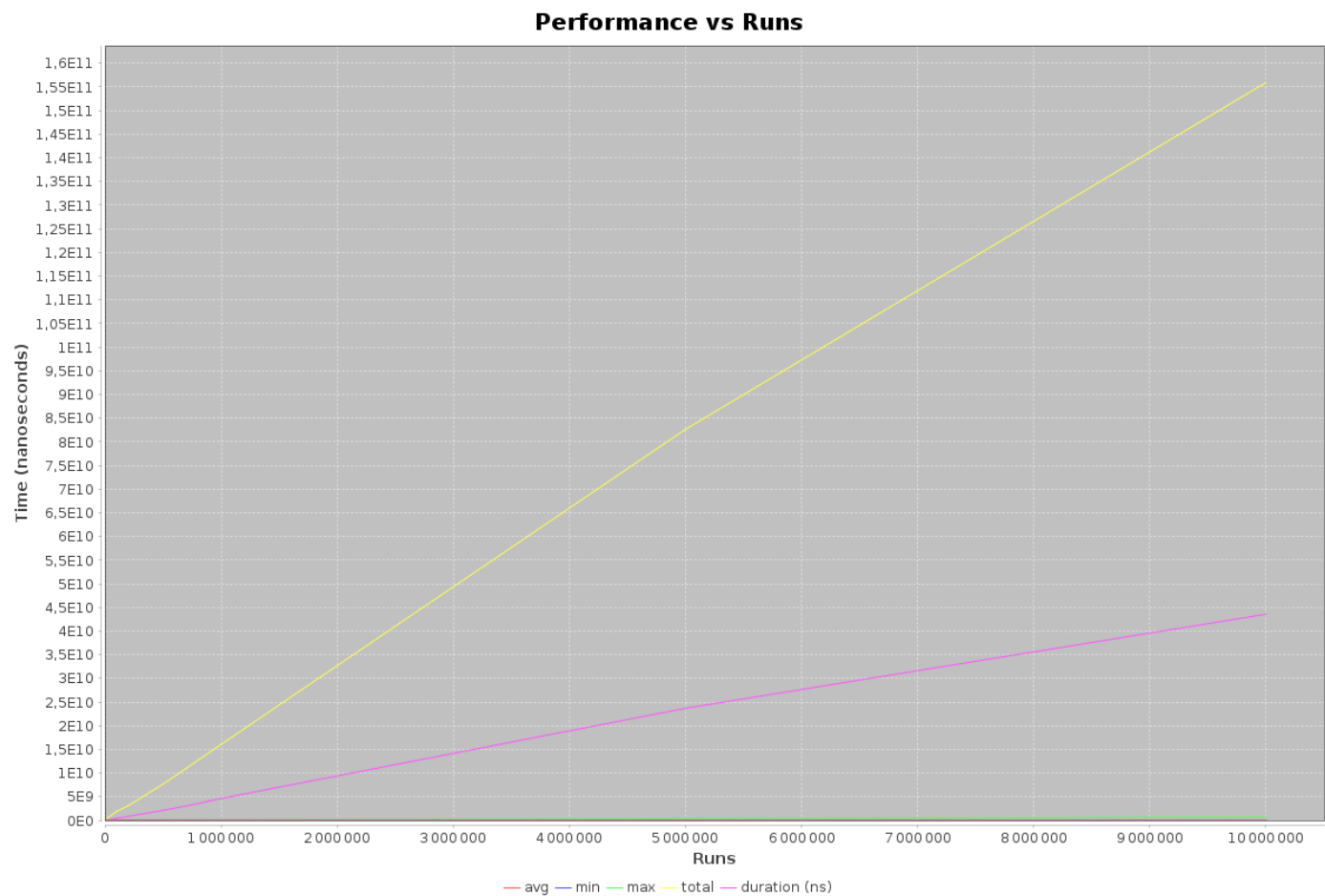
Thread Pool Size : 70

Performance Report Table

Runs	Loss	Avg (ns)	Min (ns)	Max (ns)	Total (ns)	Duration
1	0	11019361 ns (11019 us, 11 ms)	10000000 ns (10000 us, 10 ms)	11019361 ns (11019 us, 11 ms)	11019361 ns (11019 us, 11 ms)	0h 0m 0s 18ms
10	0	446866 ns (446 us)	247597 ns (247 us)	844397 ns (844 us)	4468669 ns (4468 us, 4 ms)	0h 0m 0s 3ms
100	0	315187 ns (315 us)	105264 ns (105 us)	949905 ns (949 us)	31518797 ns (31518 us, 31 ms)	0h 0m 0s 21ms
1000	0	120766 ns (120 us)	32815 ns (32 us)	965056 ns (965 us)	120766315 ns (120766 us, 120 ms)	0h 0m 0s 83ms
10000	0	46111 ns (46 us)	8681 ns (8 us)	3517479 ns (3517 us, 3 ms)	461114107 ns (461114 us, 461 ms)	0h 0m 0s 252ms

100000	0	16911 ns (16 us)	2610 ns (2 us)	9089135 ns (9089 us, 9 ms)	1691130276 ns (1691130 us, 1691 ms)	0h 0m 0s 873ms
200000	0	7648 ns (7 us)	2129 ns (2 us)	12787855 ns (12787 us, 12 ms)	1529772742 ns (1529772 us, 1529 ms)	0h 0m 0s 867ms
500000	0	7774 ns (7 us)	2192 ns (2 us)	28322856 ns (28322 us, 28 ms)	3887373723 ns (3887373 us, 3887 ms)	0h 0m 2s 23ms
700000	0	6842 ns (6 us)	2127 ns (2 us)	66226933 ns (66226 us, 66 ms)	4789580356 ns (4789580 us, 4789 ms)	0h 0m 2s 443ms
1000000	0	8149 ns (8 us)	3004 ns (3 us)	91516484 ns (91516 us, 91 ms)	8149249308 ns (8149249 us, 8149 ms)	0h 0m 3s 740ms
5000000	0	7615 ns (7 us)	2999 ns (2 us)	129868635 ns (129868 us, 129 ms)	38075849182 ns (38075849 us, 38075 ms)	0h 0m 19s 719ms
10000000	0	7150 ns (7 us)	2801 ns (2 us)	786775257 ns (786775 us, 786 ms)	71500522066 ns (71500522 us, 71500 ms)	0h 0m 36s 698ms

Simple Use Case with fallback

Test Runtime with one step that throws a catched exception which is handled by fallback method that concatenates strings injected in parameters, including input.

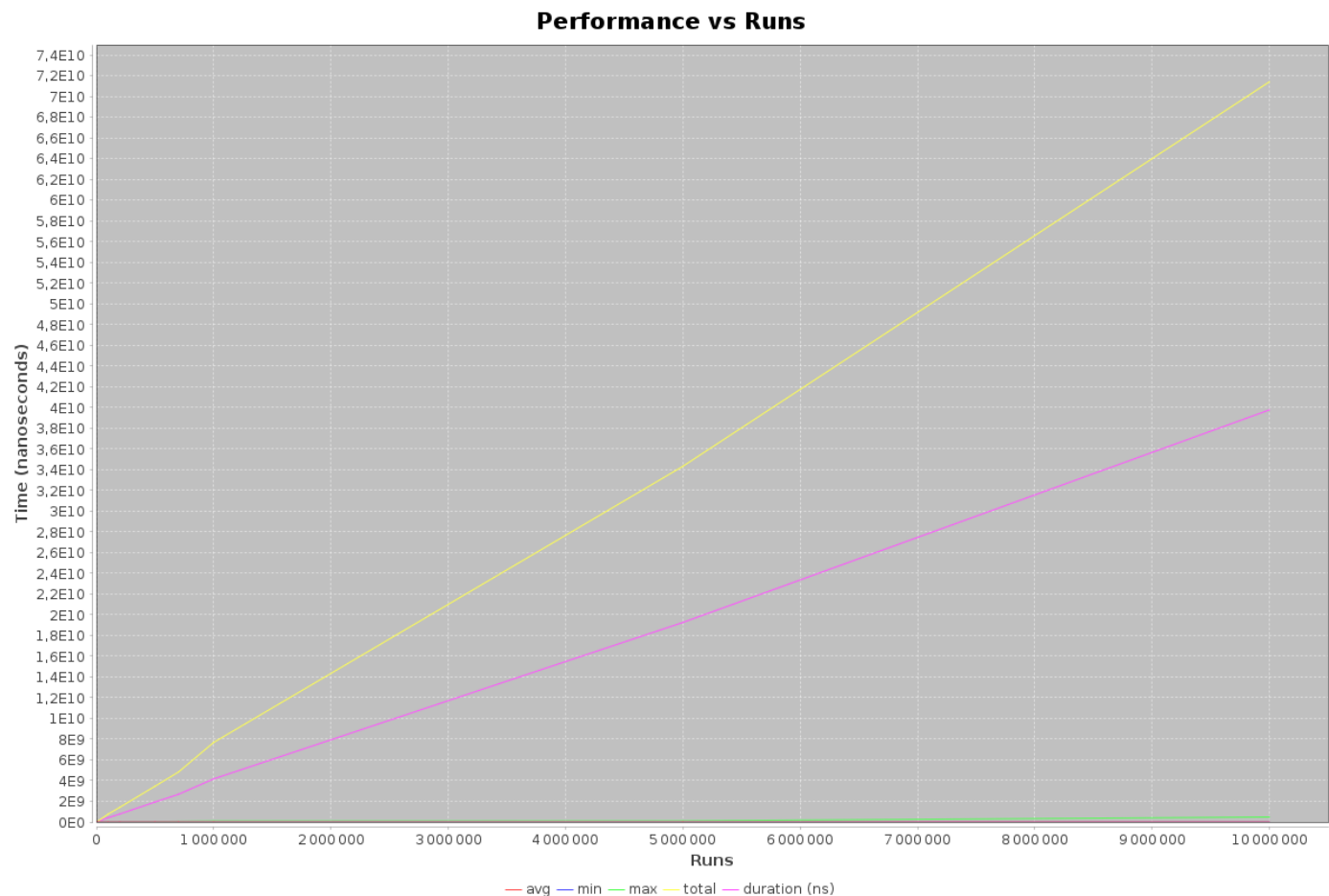Thread Pool Size : 70

Performance Report Table

Runs	Loss	Avg (ns)	Min (ns)	Max (ns)	Total (ns)	Duration
1	0	6850477 ns (6850 us, 6 ms)	6850477 ns (6850 us, 6 ms)	6850477 ns (6850 us, 6 ms)	6850477 ns (6850 us, 6 ms)	0h 0m 0s 7ms
10	0	303912 ns (303 us)	128500 ns (128 us)	549819 ns (549 us)	3039129 ns (3039 us, 3 ms)	0h 0m 0s 1ms
100	0	90884 ns (90 us)	29107 ns (29 us)	352367 ns (352 us)	9088474 ns (9088 us, 9 ms)	0h 0m 0s 5ms
1000	0	51238 ns (51 us)	15311 ns (15 us)	1153502 ns (1153 us, 1 ms)	51238558 ns (51238 us, 51 ms)	0h 0m 0s 11ms
10000	0	26365 ns (26 us)	8808 ns (8 us)	1248457 ns (1248 us, 1 ms)	263651262 ns (263651 us, 263 ms)	0h 0m 0s 55ms

100000	0	18905 ns (18 us)	6485 ns (6 us)	2254751 ns (2254 us, 2 ms)	1890591821 ns (1890591 us, 1890 ms)	0h 0m 0s 454ms
200000	0	15393 ns (15 us)	5991 ns (5 us)	37995729 ns (37995 us, 37 ms)	3078788636 ns (3078788 us, 3078 ms)	0h 0m 0s 857ms
500000	0	15352 ns (15 us)	6255 ns (6 us)	56441435 ns (56441 us, 56 ms)	7676394679 ns (7676394 us, 7676 ms)	0h 0m 2s 126ms
700000	0	15711 ns (15 us)	6216 ns (6 us)	74283852 ns (74283 us, 74 ms)	10998264252 ns (10998264 us, 10998 ms)	0h 0m 3s 25ms
1000000	0	16057 ns (16 us)	6145 ns (6 us)	107680635 ns (107680 us, 107 ms)	16057360340 ns (16057360 us, 16057 ms)	0h 0m 4s 633ms
5000000	0	16526 ns (16 us)	5714 ns (5 us)	377016498 ns (377016 us, 377 ms)	82630313086 ns (82630313 us, 82630 ms)	0h 0m 23s 687ms
10000000	0	15592 ns (15 us)	5405 ns (5 us)	753248217 ns (753248 us, 753 ms)	155921107071 ns (155921107 us, 155921 ms)	0h 0m 43s 555ms

Simple Use Case

Test Runtime with one step that concatenates strings injected in parameters, including input.
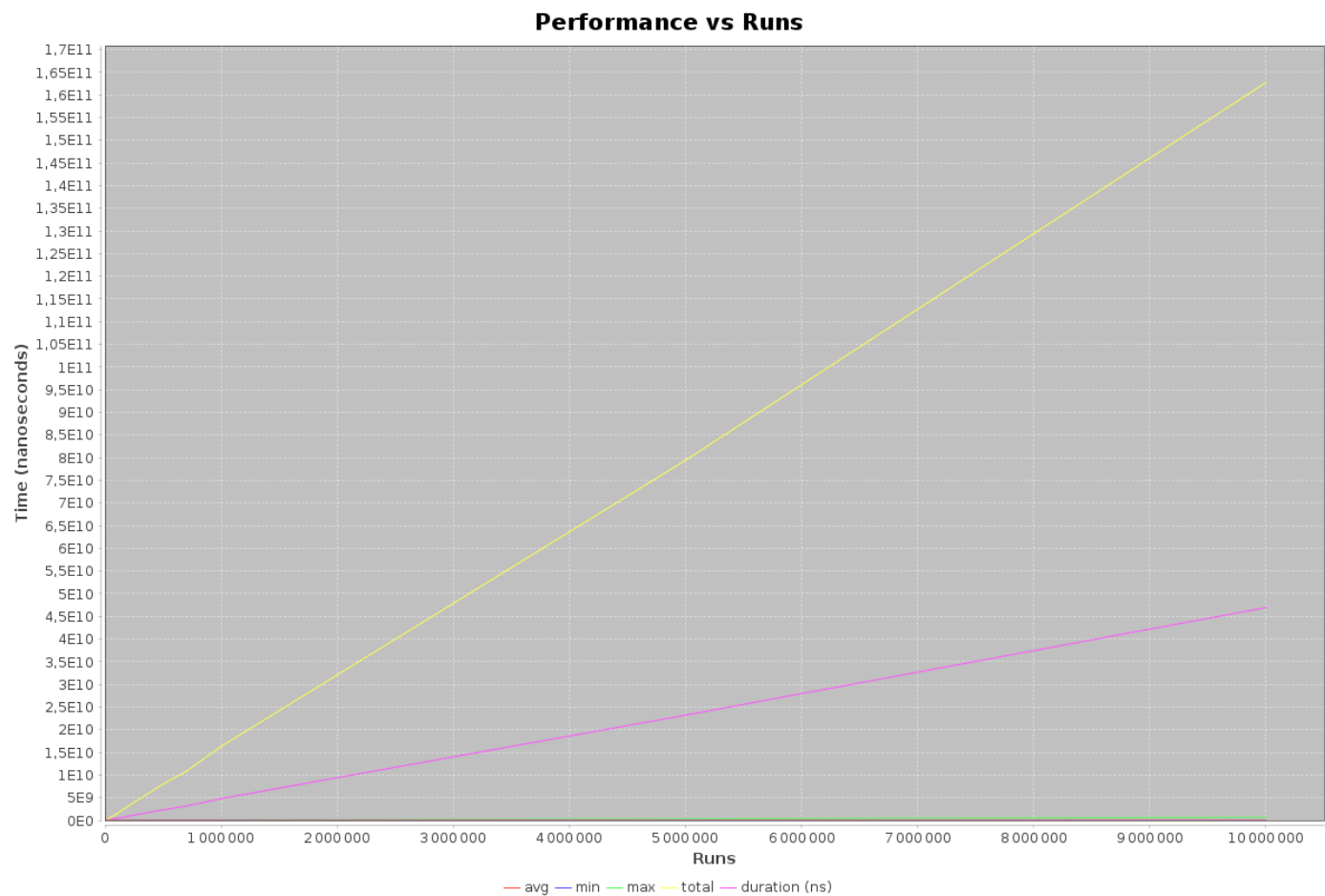
Thread Pool Size : 140

Performance Report Table

Runs	Loss	Avg (ns)	Min (ns)	Max (ns)	Total (ns)	Duration
1	0	112412 ns (112 us)	112412 ns (112 us)	112412 ns (112 us)	112412 ns (112 us)	0h 0m 0s 0ms
10	0	14453 ns (14 us)	5200 ns (5 us)	33419 ns (33 us)	144531 ns (144 us)	0h 0m 0s 0ms
100	0	7328 ns (7 us)	3406 ns (3 us)	25080 ns (25 us)	732885 ns (732 us)	0h 0m 0s 6ms
1000	0	7402 ns (7 us)	3491 ns (3 us)	116296 ns (116 us)	7402124 ns (7402 us, 7 ms)	0h 0m 0s 15ms
10000	0	6910 ns (6 us)	3347 ns (3 us)	229034 ns (229 us)	69101037 ns (69101 us, 69 ms)	0h 0m 0s 53ms
100000	0	7626 ns (7 us)	3273 ns (3 us)	18936206 ns (18936 us, 18 ms)	762671301 ns (762671 us, 762 ms)	0h 0m 0s 420ms

200000	0	7115 ns (7 us)	3140 ns (3 us)	20648044 ns (20648 us, 20 ms)	1423103765 ns (1423103 us, 1423 ms)	0h 0m 0s 778ms
500000	0	6914 ns (6 us)	2961 ns (2 us)	41717383 ns (41717 us, 41 ms)	3457068762 ns (3457068 us, 3457 ms)	0h 0m 1s 930ms
700000	0	6894 ns (6 us)	3018 ns (3 us)	61646514 ns (61646 us, 61 ms)	4825901758 ns (4825901 us, 4825 ms)	0h 0m 2s 676ms
1000000	0	7684 ns (7 us)	3036 ns (3 us)	95645936 ns (95645 us, 95 ms)	7684219039 ns (7684219 us, 7684 ms)	0h 0m 4s 164ms
5000000	0	6865 ns (6 us)	2983 ns (2 us)	107043417 ns (107043 us, 107 ms)	34328314130 ns (34328314 us, 34328 ms)	0h 0m 19s 260ms
10000000	0	7143 ns (7 us)	2924 ns (2 us)	484593970 ns (484593 us, 484 ms)	71431481044 ns (71431481 us, 71431 ms)	0h 0m 39s 769ms

Simple Use Case with fallback

Test Runtime with one step that throws a catched exception which is handled by fallback method that concatenates strings injected in parameters, including input.

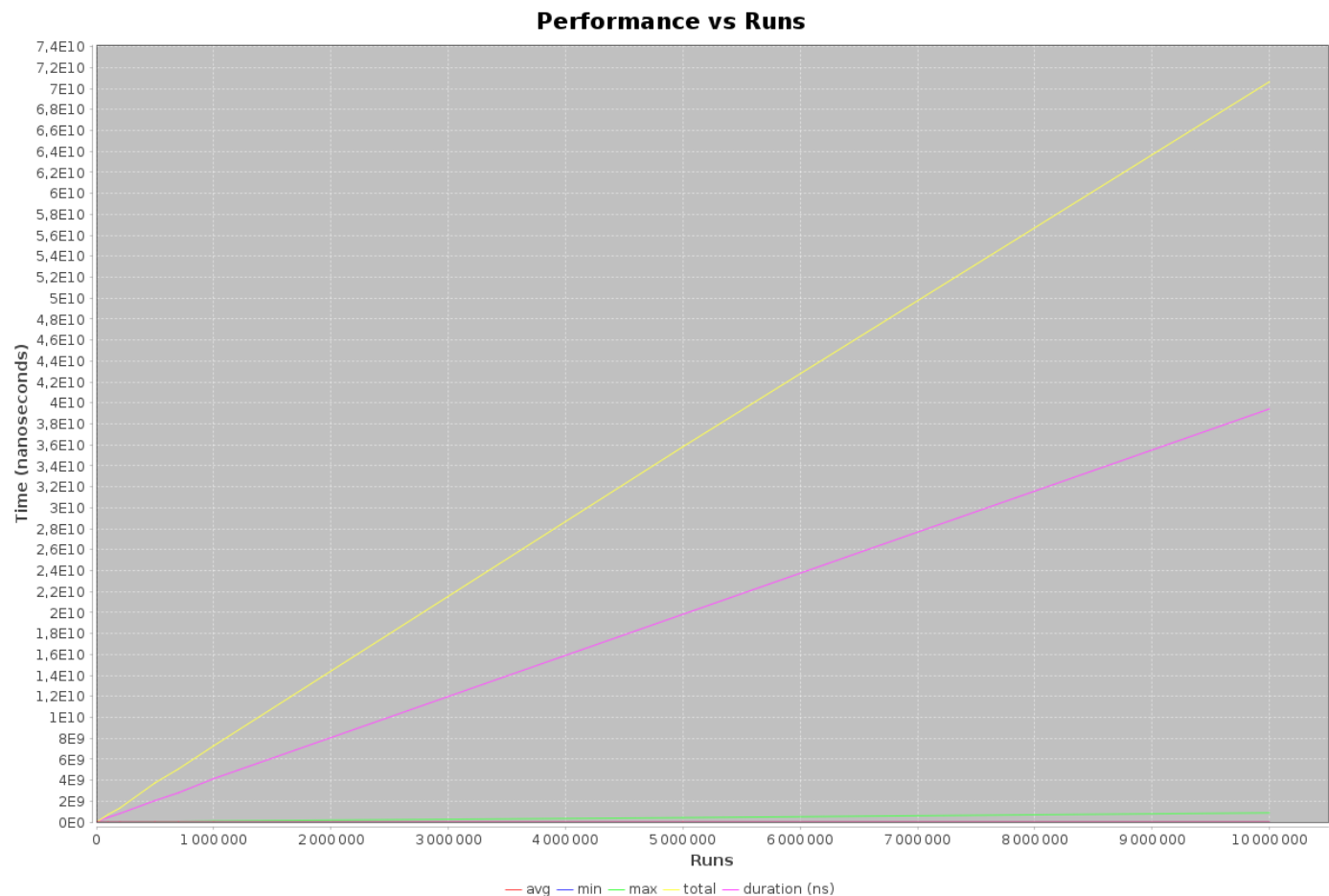Thread Pool Size : 140

Performance Report Table

Runs	Loss	Avg (ns)	Min (ns)	Max (ns)	Total (ns)	Duration
1	0	114381 ns (114 us)	114381 ns (114 us)	114381 ns (114 us)	114381 ns (114 us)	0h 0m 0s 0ms
10	0	32306 ns (32 us)	12179 ns (12 us)	77255 ns (77 us)	323068 ns (323 us)	0h 0m 0s 0ms
100	0	22652 ns (22 us)	10924 ns (10 us)	51585 ns (51 us)	2265250 ns (2265 us, 2 ms)	0h 0m 0s 6ms
1000	0	14103 ns (14 us)	6118 ns (6 us)	661692 ns (661 us)	14103309 ns (14103 us, 14 ms)	0h 0m 0s 15ms
10000	0	14276 ns (14 us)	6054 ns (6 us)	1529573 ns (1529 us, 1 ms)	142769021 ns (142769 us, 142 ms)	0h 0m 0s 61ms
100000 0	0	14261 ns (14 us)	6094 ns (6 us)	4100061 ns (4100 us, 4 ms)	1426198862 ns (1426198 us, 1426 ms)	0h 0m 0s 463ms

20000 0	0	15808 ns (15 us)	6363 ns (6 us)	31591542 ns (31591 us, 31 ms)	3161760975 ns (3161760 us, 3161 ms)	0h 0m 0s 920ms
50000 0	0	15982 ns (15 us)	6317 ns (6 us)	53927830 ns (53927 us, 53 ms)	7991041315 ns (7991041 us, 7991 ms)	0h 0m 2s 308ms
70000 0	0	15461 ns (15 us)	6257 ns (6 us)	59062346 ns (59062 us, 59 ms)	10822931178 ns (10822931 us, 10822 ms)	0h 0m 3s 145ms
10000 00	0	16295 ns (16 us)	6086 ns (6 us)	105445529 ns (105445 us, 105 ms)	16295745850 ns (16295745 us, 16295 ms)	0h 0m 4s 807ms
50000 00	0	15882 ns (15 us)	5828 ns (5 us)	330558282 ns (330558 us, 330 ms)	79412843969 ns (79412843 us, 79412 ms)	0h 0m 23s 206ms
10000 000	0	16273 ns (16 us)	5596 ns (5 us)	686581410 ns (686581 us, 686 ms)	16273465812 9 ns (162734658 us, 162734 ms)	0h 0m 46s 928ms

Simple Use Case

Test Runtime with one step that concatenates strings injected in parameters, including input.
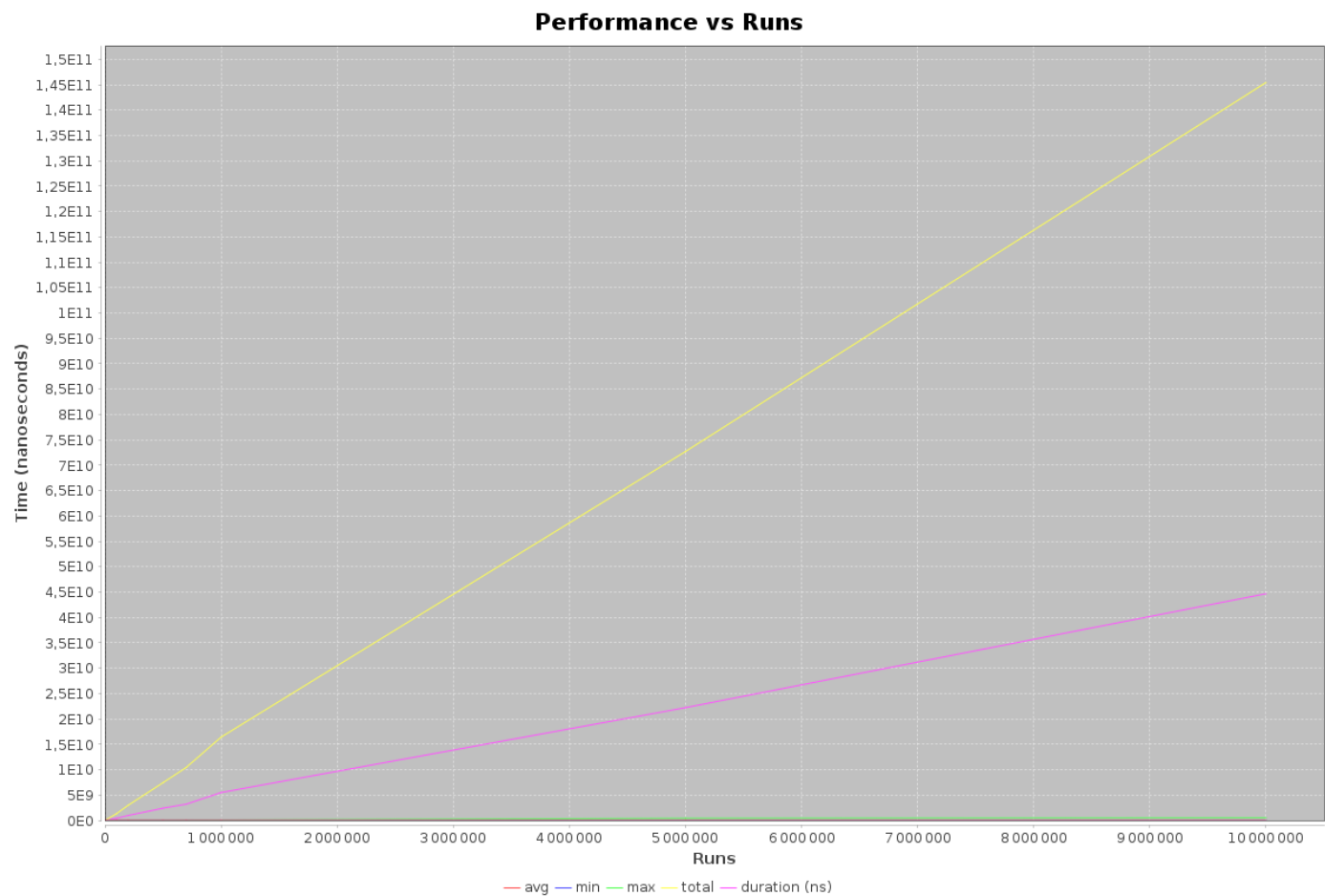
Thread Pool Size : 280

Performance Report Table

Runs	Loss	Avg (ns)	Min (ns)	Max (ns)	Total (ns)	Duration
1	0	47234 ns (47 us)	47234 ns (47 us)	47234 ns (47 us)	47234 ns (47 us)	0h 0m 0s 0ms
10	0	25744 ns (25 us)	9273 ns (9 us)	52173 ns (52 us)	257446 ns (257 us)	0h 0m 0s 1ms
100	0	9144 ns (9 us)	6873 ns (6 us)	20033 ns (20 us)	914487 ns (914 us)	0h 0m 0s 6ms
1000	0	8691 ns (8 us)	3501 ns (3 us)	93016 ns (93 us)	8691047 ns (8691 us, 8 ms)	0h 0m 0s 27ms
10000	0	6655 ns (6 us)	3328 ns (3 us)	212523 ns (212 us)	66554174 ns (66554 us, 66 ms)	0h 0m 0s 67ms
100000	0	7147 ns (7 us)	3265 ns (3 us)	3386599 ns (3386 us, 3 ms)	714751168 ns (714751 us, 714 ms)	0h 0m 0s 445ms

200000	0	6662 ns (6 us)	3123 ns (3 us)	268981 ns (268 us)	1332507672 ns (1332507 us, 1332 ms)	0h 0m 0s 813ms
500000	0	7479 ns (7 us)	3149 ns (3 us)	48428782 ns (48428 us, 48 ms)	3739895075 ns (3739895 us, 3739 ms)	0h 0m 2s 46ms
700000	0	7238 ns (7 us)	3062 ns (3 us)	52047070 ns (52047 us, 52 ms)	5066975787 ns (5066975 us, 5066 ms)	0h 0m 2s 796ms
1000000	0	7274 ns (7 us)	3090 ns (3 us)	99068680 ns (99068 us, 99 ms)	7274345778 ns (7274345 us, 7274 ms)	0h 0m 4s 137ms
5000000	0	7161 ns (7 us)	2992 ns (2 us)	417768214 ns (417768 us, 417 ms)	35809894174 ns (35809894 us, 35809 ms)	0h 0m 19s 823ms
10000000	0	7063 ns (7 us)	2895 ns (2 us)	877922780 ns (877922 us, 877 ms)	70636722222 ns (70636722 us, 70636 ms)	0h 0m 39s 420ms

Simple Use Case with fallback

Test Runtime with one step that throws a catched exception which is handled by fallback method that concatenates strings injected in parameters, including input.

Thread Pool Size : 280

Performance Report Table

Runs	Loss	Avg (ns)	Min (ns)	Max (ns)	Total (ns)	Duration
1	0	132765 ns (132 us)	132765 ns (132 us)	132765 ns (132 us)	132765 ns (132 us)	0h 0m 0s 0ms
10	0	23417 ns (23 us)	8026 ns (8 us)	51403 ns (51 us)	234179 ns (234 us)	0h 0m 0s 0ms
100	0	21158 ns (21 us)	10710 ns (10 us)	45801 ns (45 us)	2115887 ns (2115 us, 2 ms)	0h 0m 0s 4ms
1000	0	14269 ns (14 us)	5626 ns (5 us)	121646 ns (121 us)	14269654 ns (14269 us, 14 ms)	0h 0m 0s 21ms
10000	0	13195 ns (13 us)	5424 ns (5 us)	535016 ns (535 us)	131958387 ns (131958 us, 131 ms)	0h 0m 0s 73ms
100000	0	13396 ns (13 us)	5694 ns (5 us)	1174882 ns (1174 us, 1 ms)	1339625280 ns (1339625 us, 1339 ms)	0h 0m 0s 436ms

200000	0	14900 ns (14 us)	6020 ns (6 us)	22227827 ns (22227 us, 22 ms)	2980150781 ns (2980150 us, 2980 ms)	0h 0m 0s 971ms
500000	0	14873 ns (14 us)	6146 ns (6 us)	36273683 ns (36273 us, 36 ms)	7436749132 ns (7436749 us, 7436 ms)	0h 0m 2s 404ms
700000	0	14911 ns (14 us)	6041 ns (6 us)	70139189 ns (70139 us, 70 ms)	10438256920 ns (10438256 us, 10438 ms)	0h 0m 3s 189ms
1000000	0	16412 ns (16 us)	6016 ns (6 us)	103427531 ns (103427 us, 103 ms)	16412941242 ns (16412941 us, 16412 ms)	0h 0m 5s 494ms
5000000	0	14541 ns (14 us)	5879 ns (5 us)	413958707 ns (413958 us, 413 ms)	72706643260 ns (72706643 us, 72706 ms)	0h 0m 22s 219ms
10000000	0	14543 ns (14 us)	5658 ns (5 us)	511664258 ns (511664 us, 511 ms)	145435621912 ns (145435621 us, 145435 ms)	0h 0m 44s 672ms

Total performances tests duration : 0h 7m 30s 47ms

System Usage Over Time

Used Memory (MB) — Total Memory (MB)

System Usage Over Time

CPU Usage (%)