

# **Gargantua 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

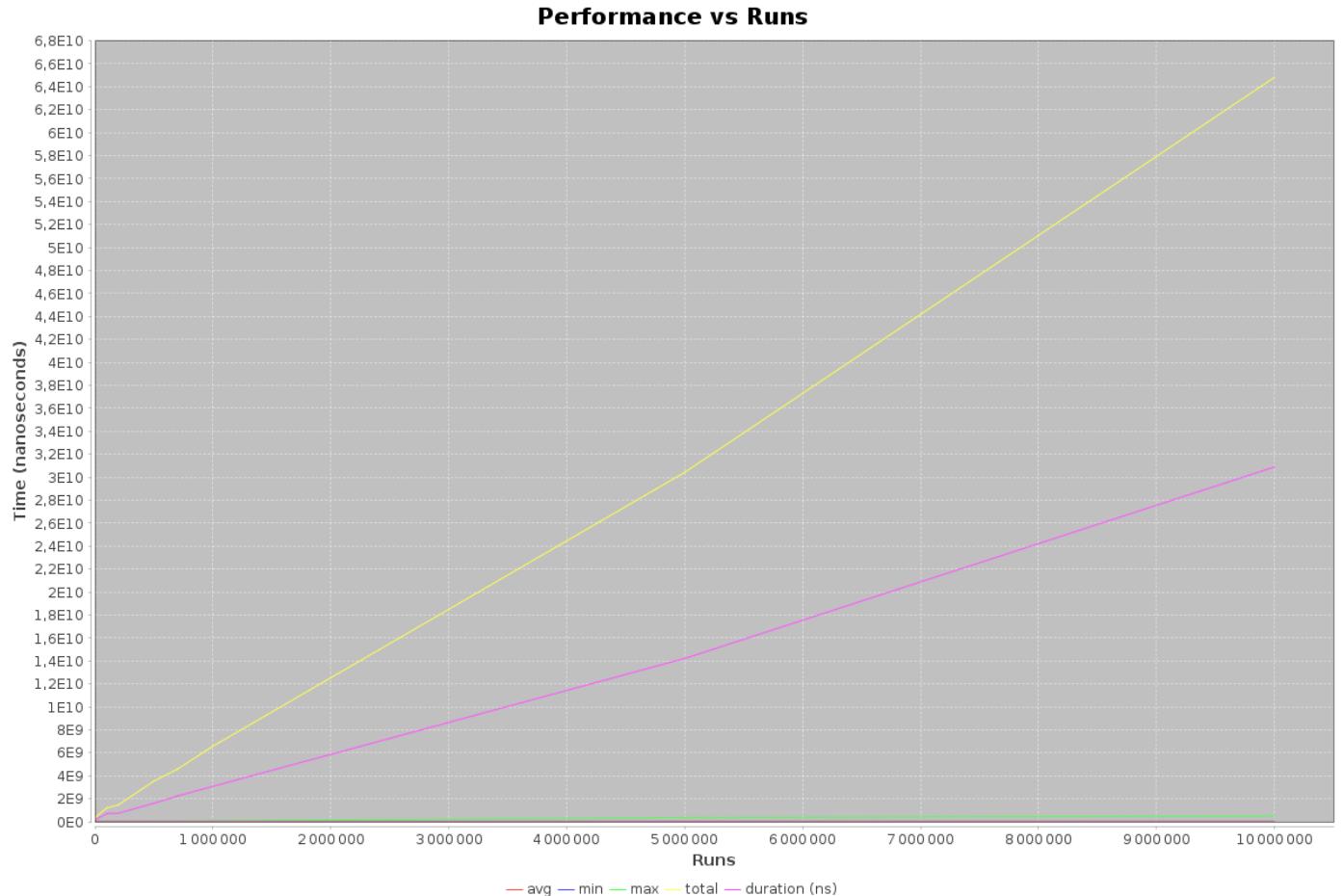
JVM Name : OpenJDK 64-Bit Server VM

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

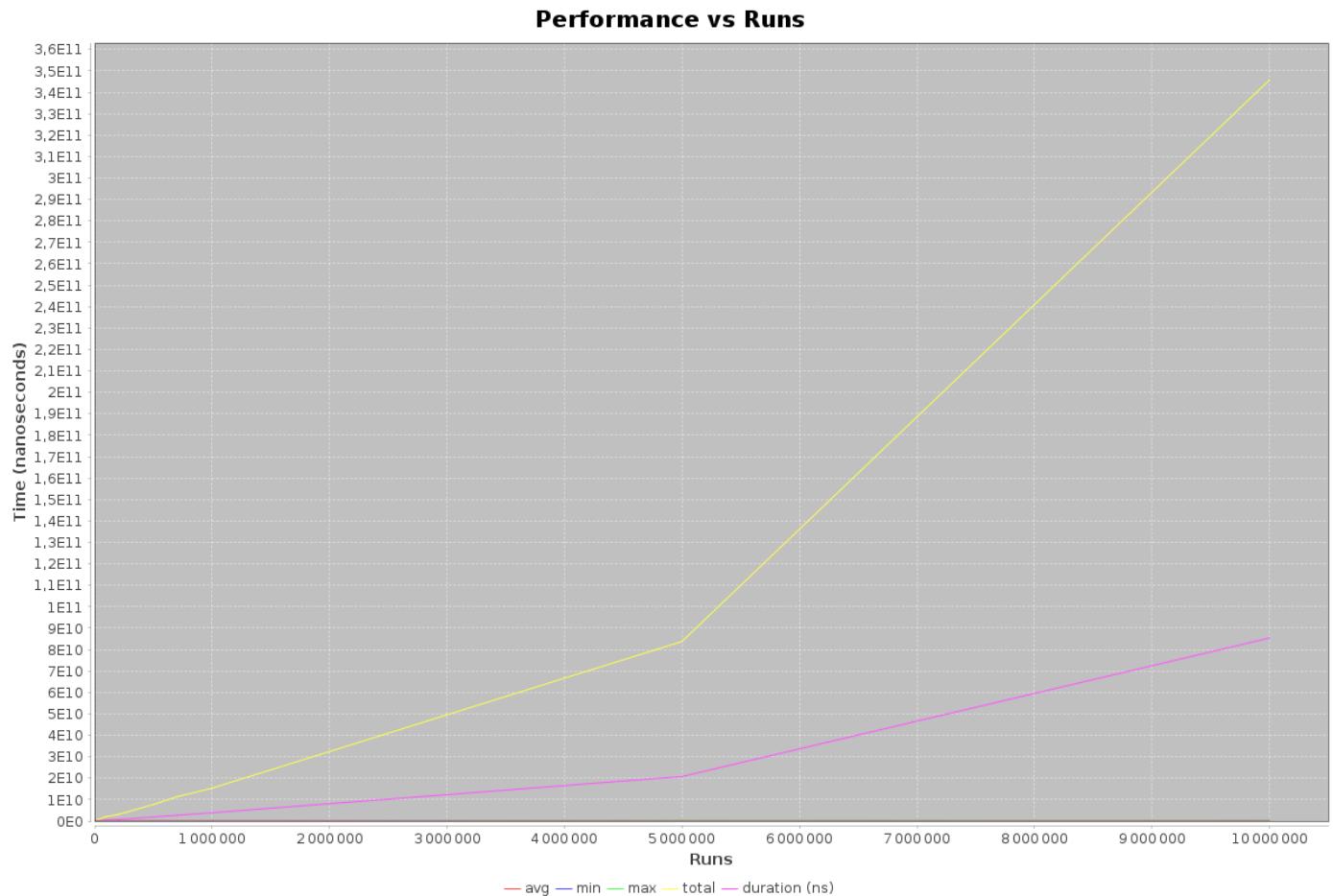
Runs	Avg (ns)	Min (ns)	Max (ns)	Total (ns)	Duration
1	5201807 ns (5201 us, 5 ms)	0h 0m 0s 9ms			
10	411118 ns (411 us)	241358 ns (241 us)	785292 ns (785 us)	4111184 ns (4111 us, 4 ms)	0h 0m 0s 2ms
100	335349 ns (335 us)	168536 ns (168 us)	1187456 ns (1187 us, 1 ms)	33534914 ns (33534 us, 33 ms)	0h 0m 0s 22ms
1000	133590 ns (133 us)	30952 ns (30 us)	3748684 ns (3748 us, 3 ms)	133590615 ns (133590 us, 133 ms)	0h 0m 0s 92ms
10000	44679 ns (44 us)	9145 ns (9 us)	3627720 ns (3627 us, 3 ms)	446793842 ns (446793 us, 446 ms)	0h 0m 0s 216ms

10000 0	11876 ns (11 us)	2470 ns (2 us)	7205692 ns (7205 us, 7 ms)	1187692110 ns (1187692 us, 1187 ms)	0h 0m 0s 695ms
20000 0	7363 ns (7 us)	2277 ns (2 us)	13385138 ns (13385 us, 13 ms)	1472640022 ns (1472640 us, 1472 ms)	0h 0m 0s 739ms
50000 0	7071 ns (7 us)	2219 ns (2 us)	27631999 ns (27631 us, 27 ms)	3535543515 ns (3535543 us, 3535 ms)	0h 0m 1s 602ms
70000 0	6541 ns (6 us)	2249 ns (2 us)	44981065 ns (44981 us, 44 ms)	4578842972 ns (4578842 us, 4578 ms)	0h 0m 2s 233ms
10000 00	6571 ns (6 us)	2280 ns (2 us)	71135846 ns (71135 us, 71 ms)	6571319833 ns (6571319 us, 6571 ms)	0h 0m 3s 77ms
50000 00	6083 ns (6 us)	2285 ns (2 us)	360380569 ns (360380 us, 360 ms)	30417376383 ns (30417376 us, 30417 ms)	0h 0m 14s 209ms
10000 000	6481 ns (6 us)	2247 ns (2 us)	477768142 ns (477768 us, 477 ms)	64813489972 ns (64813489 us, 64813 ms)	0h 0m 30s 885ms

# Simple Use Case with fallback

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

Thread Pool Size : 70



## Performance Report Table

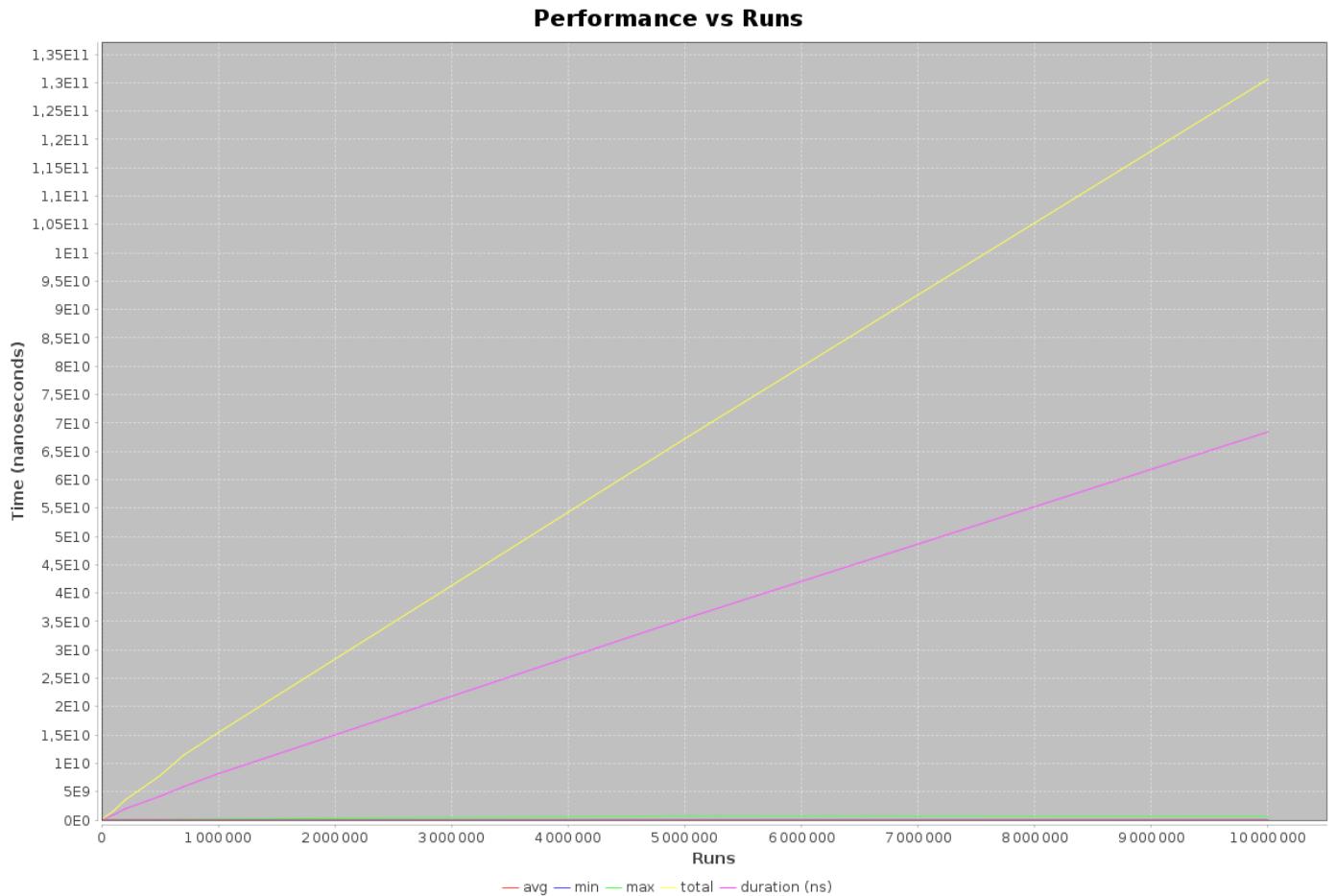
Runs	Avg (ns)	Min (ns)	Max (ns)	Total (ns)	Duration
1	6020280 ns (6020 us, 6 ms)	0h 0m 0s 6ms			
10	401267 ns (401 us)	123498 ns (123 us)	545307 ns (545 us)	4012673 ns (4012 us, 4 ms)	0h 0m 0s 1ms
100	85952 ns (85 us)	23694 ns (23 us)	328805 ns (328 us)	8595293 ns (8595 us, 8 ms)	0h 0m 0s 6ms
1000	76433 ns (76 us)	24332 ns (24 us)	1278405 ns (1278 us, 1 ms)	76433752 ns (76433 us, 76 ms)	0h 0m 0s 14ms
10000	35493 ns (35 us)	11431 ns (11 us)	1512517 ns (1512 us, 1 ms)	354931809 ns (354931 us, 354 ms)	0h 0m 0s 74ms

10000 0	20930 ns (20 us)	6191 ns (6 us)	27178037 ns (27178 us, 27 ms)	2093033611 ns (2093033 us, 2093 ms)	0h 0m 0s 529ms
20000 0	15199 ns (15 us)	5456 ns (5 us)	24375368 ns (24375 us, 24 ms)	3039831489 ns (3039831 us, 3039 ms)	0h 0m 0s 752ms
50000 0	15358 ns (15 us)	5345 ns (5 us)	41883290 ns (41883 us, 41 ms)	7679068542 ns (7679068 us, 7679 ms)	0h 0m 1s 888ms
70000 0	16176 ns (16 us)	5186 ns (5 us)	59206743 ns (59206 us, 59 ms)	11323344074 ns (11323344 us, 11323 ms)	0h 0m 2s 655ms
10000 00	15322 ns (15 us)	5499 ns (5 us)	84068998 ns (84068 us, 84 ms)	15322656071 ns (15322656 us, 15322 ms)	0h 0m 3s 854ms
50000 00	16755 ns (16 us)	6708 ns (6 us)	424773083 ns (424773 us, 424 ms)	83776872038 ns (83776872 us, 83776 ms)	0h 0m 20s 759ms
10000 000	34576 ns (34 us)	6044 ns (6 us)	380430818 ns (380430 us, 380 ms)	345760946907 ns (345760946 us, 345760 ms)	0h 1m 25s 376ms

# Simple Use Case

Test Runtime with one step that concatenates strings injected in parameters, including input.

Thread Pool Size : 140



## Performance Report Table

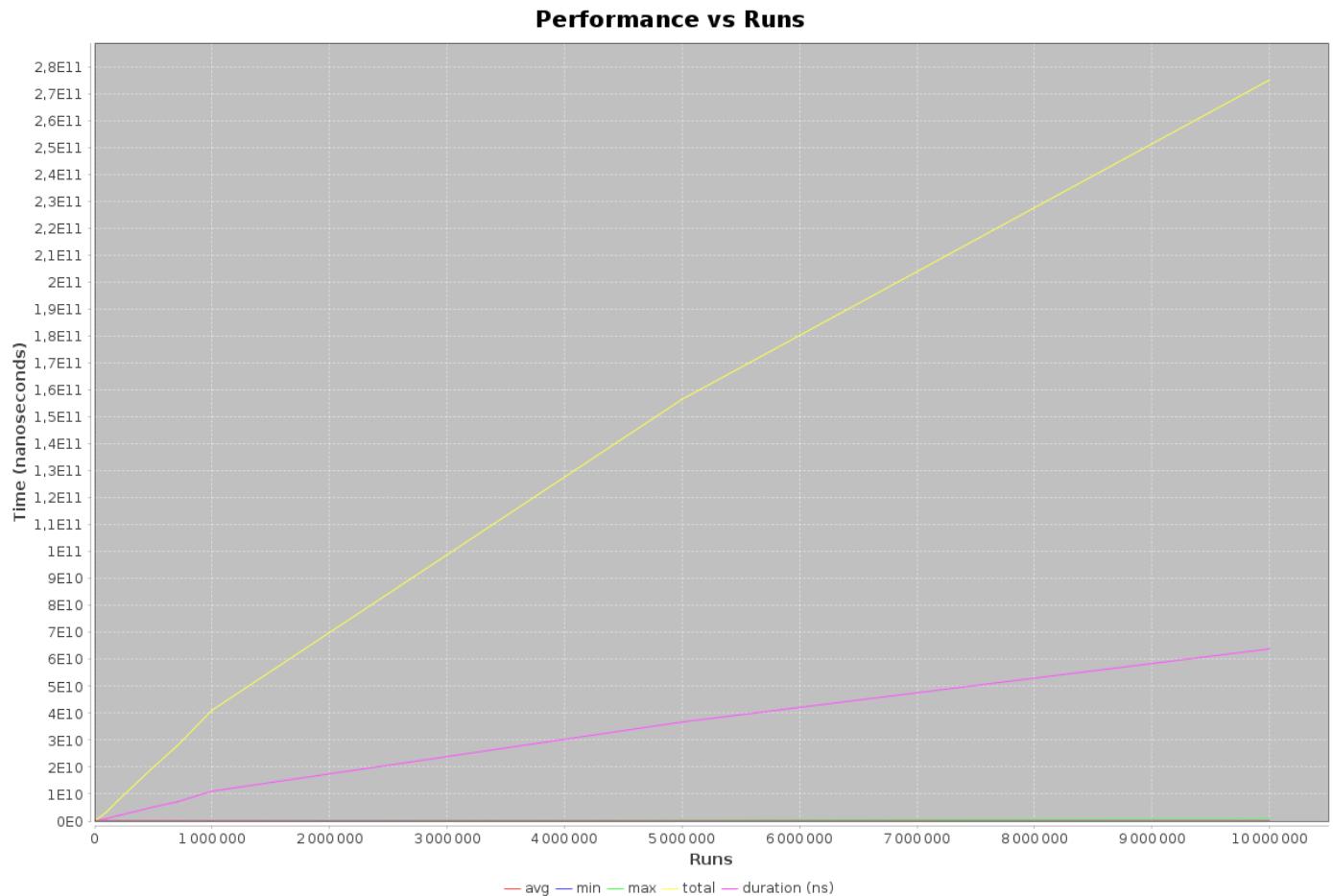
Runs	Avg (ns)	Min (ns)	Max (ns)	Total (ns)	Duration
1	152893 ns (152 us)	152893 ns (152 us)	152893 ns (152 us)	152893 ns (152 us)	0h 0m 0s 1ms
10	40153 ns (40 us)	21168 ns (21 us)	57465 ns (57 us)	401530 ns (401 us)	0h 0m 0s 2ms
100	21189 ns (21 us)	8094 ns (8 us)	53701 ns (53 us)	2118957 ns (2118 us, 2 ms)	0h 0m 0s 10ms
1000	14852 ns (14 us)	6988 ns (6 us)	104560 ns (104 us)	14852273 ns (14852 us, 14 ms)	0h 0m 0s 24ms
10000	23842 ns (23 us)	6568 ns (6 us)	30709669 ns (30709 us, 30 ms)	238421404 ns (238421 us, 238 ms)	0h 0m 0s 130ms
100000	15808 ns (15 us)	6220 ns (6 us)	869546 ns (869 us)	1580854463 ns (1580854 us, 1580 ms)	0h 0m 0s 911ms

20000 0	17584 ns (17 us)	6333 ns (6 us)	51607133 ns (51607 us, 51 ms)	3516960688 ns (3516960 us, 3516 ms)	0h 0m 1s 966ms
50000 0	15621 ns (15 us)	6361 ns (6 us)	83605145 ns (83605 us, 83 ms)	7810812556 ns (7810812 us, 7810 ms)	0h 0m 4s 188ms
70000 0	16289 ns (16 us)	6341 ns (6 us)	134753186 ns (134753 us, 134 ms)	11402374861 ns (11402374 us, 11402 ms)	0h 0m 5s 867ms
10000 00	15407 ns (15 us)	6250 ns (6 us)	181675766 ns (181675 us, 181 ms)	15407876582 ns (15407876 us, 15407 ms)	0h 0m 8s 172ms
50000 00	13447 ns (13 us)	5187 ns (5 us)	749199514 ns (749199 us, 749 ms)	67236414691 ns (67236414 us, 67236 ms)	0h 0m 35s 489ms
10000 000	13064 ns (13 us)	4359 ns (4 us)	699451825 ns (699451 us, 699 ms)	130644590070 ns (130644590 us, 130644 ms)	0h 1m 8s 433ms

# Simple Use Case with fallback

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

Thread Pool Size : 140



## Performance Report Table

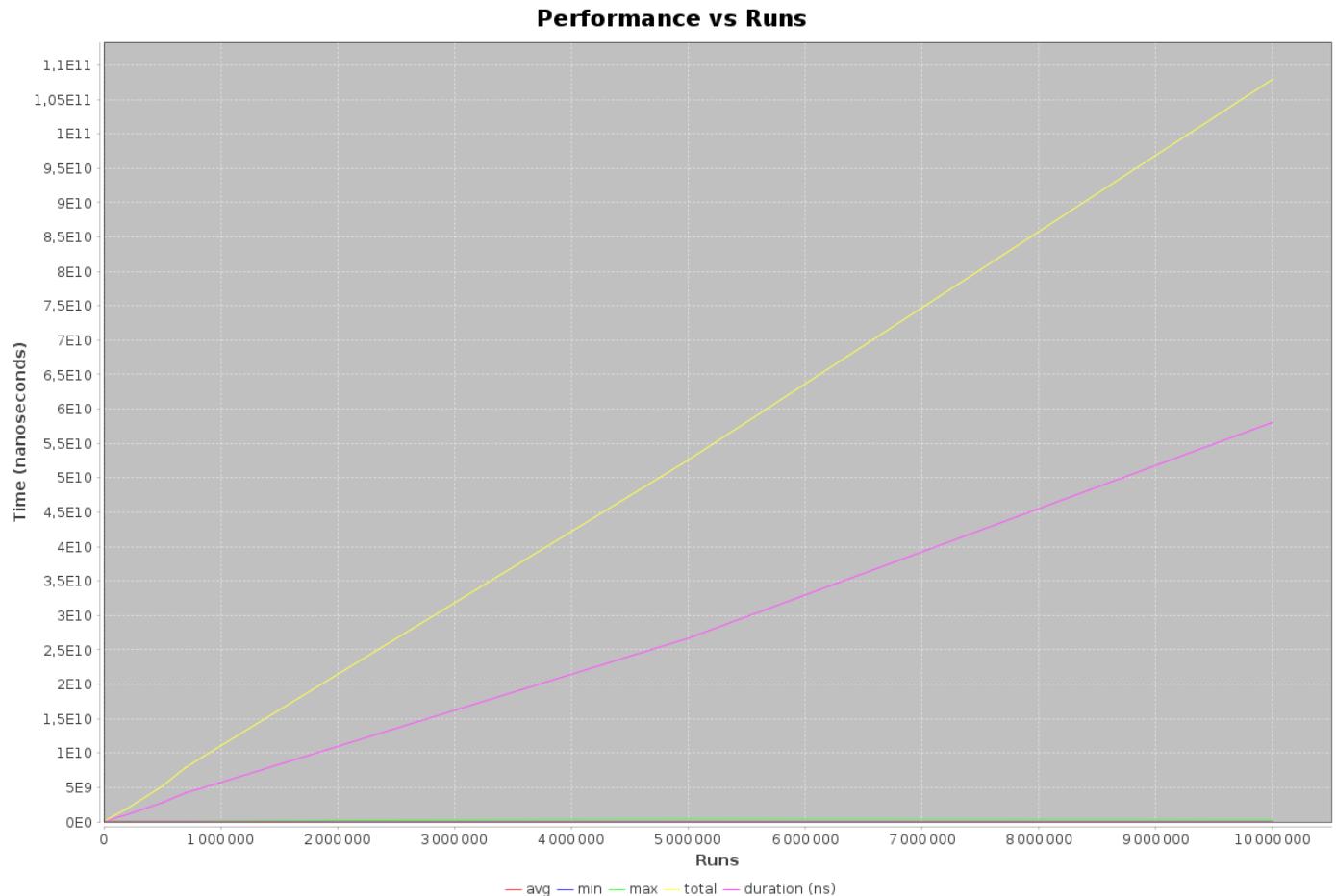
Runs	Avg (ns)	Min (ns)	Max (ns)	Total (ns)	Duration
1	285779 ns (285 us)	285779 ns (285 us)	285779 ns (285 us)	285779 ns (285 us)	0h 0m 0s 11ms
10	65842 ns (65 us)	16849 ns (16 us)	142537 ns (142 us)	658426 ns (658 us)	0h 0m 0s 1ms
100	34887 ns (34 us)	14285 ns (14 us)	152466 ns (152 us)	3488764 ns (3488 us, 3 ms)	0h 0m 0s 24ms
1000	35866 ns (35 us)	13648 ns (13 us)	406691 ns (406 us)	35866863 ns (35866 us, 35 ms)	0h 0m 0s 46ms
10000	33019 ns (33 us)	12631 ns (12 us)	784083 ns (784 us)	330195226 ns (330195 us, 330 ms)	0h 0m 0s 133ms
100000	32890 ns (32 us)	12598 ns (12 us)	11382574 ns (11382 us, 11 ms)	3289085573 ns (3289085 us, 3289 ms)	0h 0m 0s 862ms

20000 0	38342 ns (38 us)	13995 ns (13 us)	24832504 ns (24832 us, 24 ms)	7668536549 ns (7668536 us, 7668 ms)	0h 0m 1s 995ms
50000 0	39941 ns (39 us)	14128 ns (14 us)	53507593 ns (53507 us, 53 ms)	19970970295 ns (19970970 us, 19970 ms)	0h 0m 5s 197ms
70000 0	39687 ns (39 us)	13942 ns (13 us)	66999575 ns (66999 us, 66 ms)	27781464494 ns (27781464 us, 27781 ms)	0h 0m 7s 70ms
10000 00	41122 ns (41 us)	13432 ns (13 us)	120316982 ns (120316 us, 120 ms)	41122759772 ns (41122759 us, 41122 ms)	0h 0m 11s 80ms
50000 00	31296 ns (31 us)	11441 ns (11 us)	335340954 ns (335340 us, 335 ms)	156483684821 ns (156483684 us, 156483 ms)	0h 0m 36s 737ms
10000 000	27502 ns (27 us)	10388 ns (10 us)	838653799 ns (838653 us, 838 ms)	275023150092 ns (275023150 us, 275023 ms)	0h 1m 3s 875ms

# Simple Use Case

Test Runtime with one step that concatenates strings injected in parameters, including input.

Thread Pool Size : 280



## Performance Report Table

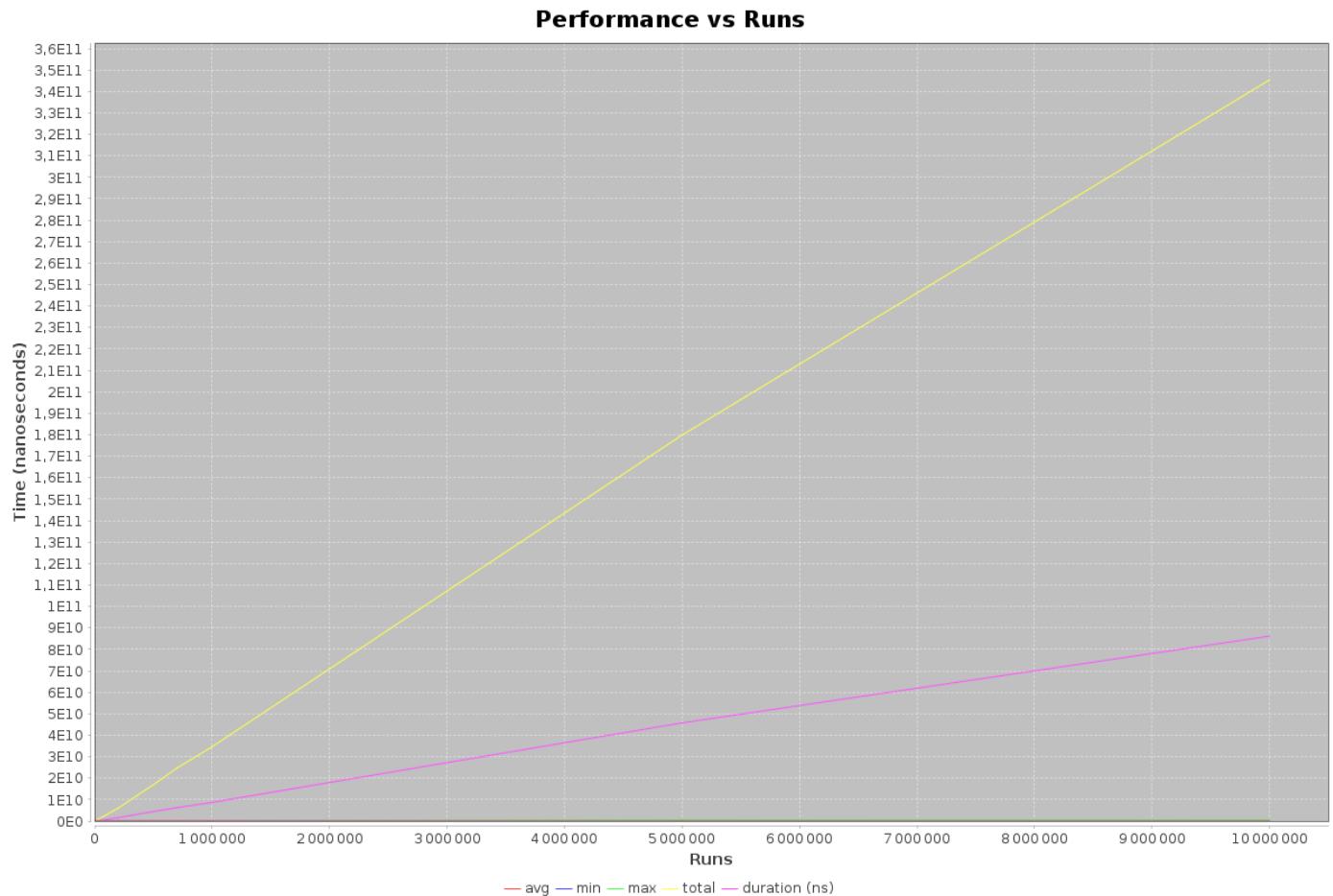
Runs	Avg (ns)	Min (ns)	Max (ns)	Total (ns)	Duration
1	47098 ns (47 us)	47098 ns (47 us)	47098 ns (47 us)	47098 ns (47 us)	0h 0m 0s 0ms
10	21721 ns (21 us)	7269 ns (7 us)	50374 ns (50 us)	217219 ns (217 us)	0h 0m 0s 0ms
100	12686 ns (12 us)	6027 ns (6 us)	33319 ns (33 us)	1268643 ns (1268 us, 1 ms)	0h 0m 0s 8ms
1000	13237 ns (13 us)	5394 ns (5 us)	181627 ns (181 us)	13237212 ns (13237 us, 13 ms)	0h 0m 0s 34ms
10000	10031 ns (10 us)	4913 ns (4 us)	187384 ns (187 us)	100315061 ns (100315 us, 100 ms)	0h 0m 0s 83ms
100000	10189 ns (10 us)	4783 ns (4 us)	18013339 ns (18013 us, 18 ms)	1018989134 ns (1018989 us, 1018 ms)	0h 0m 0s 569ms

20000 0	9642 ns (9 us)	4482 ns (4 us)	22059053 ns (22059 us, 22 ms)	1928585247 ns (1928585 us, 1928 ms)	0h 0m 1s 62ms
50000 0	10334 ns (10 us)	4376 ns (4 us)	52046624 ns (52046 us, 52 ms)	5167042661 ns (5167042 us, 5167 ms)	0h 0m 2s 780ms
70000 0	11275 ns (11 us)	4521 ns (4 us)	70849733 ns (70849 us, 70 ms)	7893129597 ns (7893129 us, 7893 ms)	0h 0m 4s 214ms
10000 00	11048 ns (11 us)	4337 ns (4 us)	127929507 ns (127929 us, 127 ms)	11048230894 ns (11048230 us, 11048 ms)	0h 0m 5s 717ms
50000 00	10516 ns (10 us)	3686 ns (3 us)	458654978 ns (458654 us, 458 ms)	52581087434 ns (52581087 us, 52581 ms)	0h 0m 26s 682ms
10000 000	10793 ns (10 us)	4341 ns (4 us)	321754025 ns (321754 us, 321 ms)	107932748757 ns (107932748 us, 107932 ms)	0h 0m 58s 72ms

# Simple Use Case with fallback

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

Thread Pool Size : 280



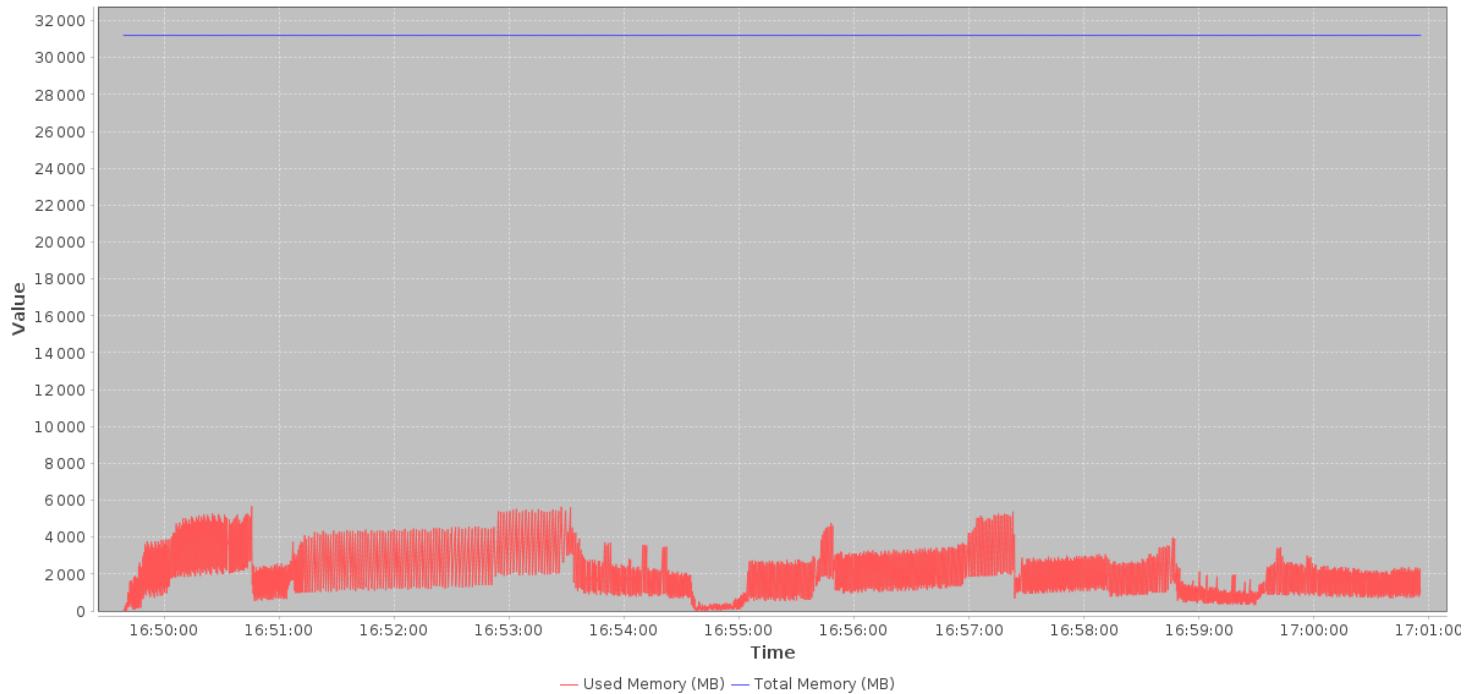
## Performance Report Table

Runs	Avg (ns)	Min (ns)	Max (ns)	Total (ns)	Duration
1	186684 ns (186 us)	186684 ns (186 us)	186684 ns (186 us)	186684 ns (186 us)	0h 0m 0s 0ms
10	45619 ns (45 us)	28096 ns (28 us)	84034 ns (84 us)	456199 ns (456 us)	0h 0m 0s 0ms
100	34711 ns (34 us)	21320 ns (21 us)	82188 ns (82 us)	3471111 ns (3471 us, 3 ms)	0h 0m 0s 8ms
1000	30373 ns (30 us)	11197 ns (11 us)	269311 ns (269 us)	30373777 ns (30373 us, 30 ms)	0h 0m 0s 30ms
10000	23525 ns (23 us)	10793 ns (10 us)	436649 ns (436 us)	235255492 ns (235255 us, 235 ms)	0h 0m 0s 95ms
100000	29164 ns (29 us)	11266 ns (11 us)	23601591 ns (23601 us, 23 ms)	2916431445 ns (2916431 us, 2916 ms)	0h 0m 0s 728ms

20000 0	29939 ns (29 us)	12339 ns (12 us)	31678260 ns (31678 us, 31 ms)	5987802206 ns (5987802 us, 5987 ms)	0h 0m 1s 558ms
50000 0	33847 ns (33 us)	13175 ns (13 us)	71613060 ns (71613 us, 71 ms)	16923883651 ns (16923883 us, 16923 ms)	0h 0m 4s 399ms
70000 0	35222 ns (35 us)	12943 ns (12 us)	95669498 ns (95669 us, 95 ms)	24656099289 ns (24656099 us, 24656 ms)	0h 0m 6s 199ms
10000 00	34599 ns (34 us)	12390 ns (12 us)	152443319 ns (152443 us, 152 ms)	34599439720 ns (34599439 us, 34599 ms)	0h 0m 8s 690ms
50000 00	35967 ns (35 us)	11177 ns (11 us)	653407854 ns (653407 us, 653 ms)	179839986659 ns (179839986 us, 179839 ms)	0h 0m 45s 727ms
10000 000	34535 ns (34 us)	10662 ns (10 us)	606313064 ns (606313 us, 606 ms)	345355676777 ns (345355676 us, 345355 ms)	0h 1m 26s 142ms

# Total performances tests duration : 0h 11m 16s 372ms

System Usage Over Time



System Usage Over Time

