Result of testing on dual processors: 2 x AMD Opteron(tm) Processor 250 (2405.459 MHz)

Average (ms)

Minimum (ms)

Maximum (ms)
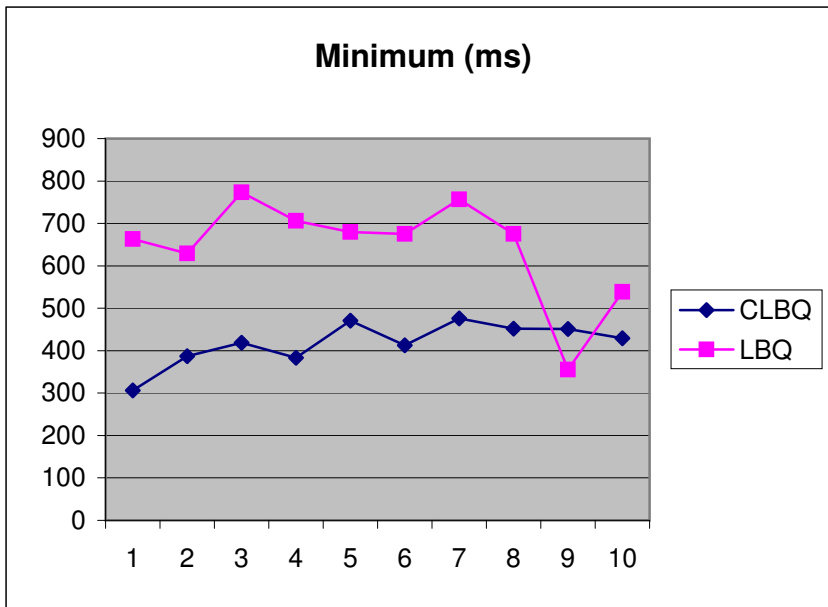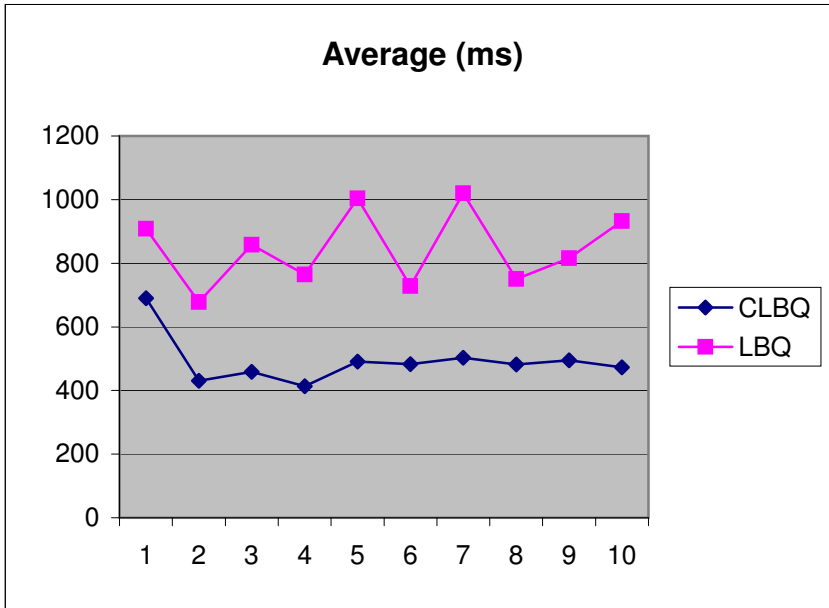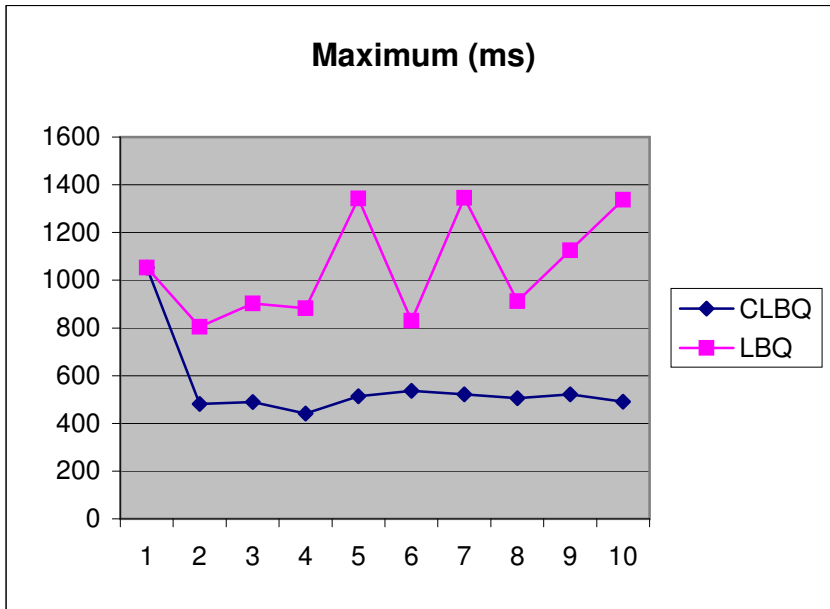
ConcurrentLinkedBlockingQueue (CLBQ)

Test	avg (ms)	min (ms)	max (ms)
cycle 1	690	306	1053
cycle 2	431	387	482
cycle 3	459	419	490
cycle 4	413	383	441
cycle 5	491	471	513
cycle 6	483	413	536
cycle 7	503	476	522
cycle 8	482	452	506
cycle 9	495	451	522
cycle 10	473	429	491
Sum:	4920	4187	5556

LinkedBlockingQueue (LBQ)

Test	avg (ms)	min (ms)	max (ms)
cycle 1	908	663	1053
cycle 2	678	629	805
cycle 3	858	773	902
cycle 4	764	706	883
cycle 5	1004	680	1343
cycle 6	728	675	830
cycle 7	1020	757	1345
cycle 8	750	675	912
cycle 9	816	355	1125
cycle 10	932	539	1337
Sum:	8458	6452	10535

Improve:	**72%**	**54%**	**90%**

Actual Test Result using JDK-1.5.0_05

   java -server -XX:+UseParallelGC -Xms512m -Xmx512m net.sf.beanlib.util.concurrent.TestMain

Test#9, duration: 648 ms
Test#8, duration: 306 ms
Test#7, duration: 642 ms
Test#6, duration: 736 ms
Test#5, duration: 402 ms
Test#4, duration: 813 ms
Test#3, duration: 810 ms
Test#2, duration: 459 ms
Test#1, duration: 1033 ms
Test#0, duration: 1053 ms

net.sf.beanlib.util.concurrent.ConcurrentLinkedBlockingQueueTestMain
Thread pool size is 3
Total items per test: 1000000, Tested: 10 times
Avg: 690 ms
min: 306 ms
max: 1053 ms

Test#9, duration: 744 ms
Test#8, duration: 861 ms
Test#7, duration: 663 ms
Test#6, duration: 909 ms
Test#5, duration: 1053 ms
Test#4, duration: 928 ms
Test#3, duration: 969 ms
Test#2, duration: 1019 ms
Test#1, duration: 940 ms
Test#0, duration: 1003 ms

net.sf.beanlib.util.concurrent.LinkedBlockingQueueTestMain
Thread pool size is 3
Total items per test: 1000000, Tested: 10 times
Avg: 908 ms
min: 663 ms
max: 1053 ms

Test#9, duration: 392 ms
Test#8, duration: 409 ms
Test#7, duration: 453 ms
Test#6, duration: 450 ms
Test#5, duration: 482 ms
Test#4, duration: 476 ms
Test#3, duration: 395 ms
Test#2, duration: 429 ms
Test#1, duration: 387 ms

Test#0, duration: 439 ms

net.sf.beanlib.util.concurrent.ConcurrentLinkedBlockingQueueTestMain
Thread pool size is 3
Total items per test: 1000000, Tested: 10 times
Avg: 431 ms
min: 387 ms
max: 482 ms

Test#9, duration: 805 ms
Test#8, duration: 631 ms
Test#7, duration: 701 ms
Test#6, duration: 697 ms
Test#5, duration: 700 ms
Test#4, duration: 678 ms
Test#3, duration: 635 ms
Test#2, duration: 629 ms
Test#1, duration: 665 ms
Test#0, duration: 643 ms

net.sf.beanlib.util.concurrent.LinkedBlockingQueueTestMain
Thread pool size is 3
Total items per test: 1000000, Tested: 10 times
Avg: 678 ms
min: 629 ms
max: 805 ms

Test#9, duration: 461 ms
Test#8, duration: 450 ms
Test#7, duration: 490 ms
Test#6, duration: 428 ms
Test#5, duration: 490 ms
Test#4, duration: 421 ms
Test#3, duration: 419 ms
Test#2, duration: 481 ms
Test#1, duration: 477 ms
Test#0, duration: 476 ms

net.sf.beanlib.util.concurrent.ConcurrentLinkedBlockingQueueTestMain
Thread pool size is 3
Total items per test: 1000000, Tested: 10 times
Avg: 459 ms
min: 419 ms
max: 490 ms

Test#9, duration: 773 ms
Test#8, duration: 839 ms
Test#7, duration: 902 ms
Test#6, duration: 883 ms
Test#5, duration: 855 ms
Test#4, duration: 868 ms
Test#3, duration: 900 ms

Test#2, duration: 872 ms
Test#1, duration: 823 ms
Test#0, duration: 871 ms

net.sf.beanlib.util.concurrent.LinkedBlockingQueueTestMain
Thread pool size is 3
Total items per test: 1000000, Tested: 10 times
Avg: 858 ms
min: 773 ms
max: 902 ms

Test#9, duration: 423 ms
Test#8, duration: 415 ms
Test#7, duration: 424 ms
Test#6, duration: 390 ms
Test#5, duration: 440 ms
Test#4, duration: 437 ms
Test#3, duration: 393 ms
Test#2, duration: 441 ms
Test#1, duration: 383 ms
Test#0, duration: 393 ms

net.sf.beanlib.util.concurrent.ConcurrentLinkedBlockingQueueTestMain
Thread pool size is 3
Total items per test: 1000000, Tested: 10 times
Avg: 413 ms
min: 383 ms
max: 441 ms

Test#9, duration: 767 ms
Test#8, duration: 883 ms
Test#7, duration: 834 ms
Test#6, duration: 743 ms
Test#5, duration: 755 ms
Test#4, duration: 719 ms
Test#3, duration: 760 ms
Test#2, duration: 733 ms
Test#1, duration: 742 ms
Test#0, duration: 706 ms

net.sf.beanlib.util.concurrent.LinkedBlockingQueueTestMain
Thread pool size is 3
Total items per test: 1000000, Tested: 10 times
Avg: 764 ms
min: 706 ms
max: 883 ms

Test#9, duration: 502 ms
Test#8, duration: 477 ms
Test#7, duration: 479 ms
Test#6, duration: 471 ms
Test#5, duration: 477 ms

Test#4, duration: 489 ms
Test#3, duration: 511 ms
Test#2, duration: 513 ms
Test#1, duration: 498 ms
Test#0, duration: 500 ms

net.sf.beanlib.util.concurrent.ConcurrentLinkedBlockingQueueTestMain
Thread pool size is 3
Total items per test: 1000000, Tested: 10 times
Avg: 491 ms
min: 471 ms
max: 513 ms

Test#9, duration: 748 ms
Test#8, duration: 680 ms
Test#7, duration: 1079 ms
Test#6, duration: 811 ms
Test#5, duration: 865 ms
Test#4, duration: 846 ms
Test#3, duration: 1343 ms
Test#2, duration: 1043 ms
Test#1, duration: 1329 ms
Test#0, duration: 1301 ms

net.sf.beanlib.util.concurrent.LinkedBlockingQueueTestMain
Thread pool size is 3
Total items per test: 1000000, Tested: 10 times
Avg: 1004 ms
min: 680 ms
max: 1343 ms

Test#9, duration: 496 ms
Test#8, duration: 536 ms
Test#7, duration: 530 ms
Test#6, duration: 450 ms
Test#5, duration: 413 ms
Test#4, duration: 485 ms
Test#3, duration: 463 ms
Test#2, duration: 489 ms
Test#1, duration: 503 ms
Test#0, duration: 474 ms

net.sf.beanlib.util.concurrent.ConcurrentLinkedBlockingQueueTestMain
Thread pool size is 3
Total items per test: 1000000, Tested: 10 times
Avg: 483 ms
min: 413 ms
max: 536 ms

Test#9, duration: 830 ms
Test#8, duration: 746 ms
Test#7, duration: 714 ms

Test#6, duration: 748 ms
Test#5, duration: 707 ms
Test#4, duration: 699 ms
Test#3, duration: 675 ms
Test#2, duration: 711 ms
Test#1, duration: 704 ms
Test#0, duration: 753 ms

net.sf.beanlib.util.concurrent.LinkedBlockingQueueTestMain
Thread pool size is 3
Total items per test: 1000000, Tested: 10 times
Avg: 728 ms
min: 675 ms
max: 830 ms

Test#9, duration: 476 ms
Test#8, duration: 503 ms
Test#7, duration: 509 ms
Test#6, duration: 514 ms
Test#5, duration: 504 ms
Test#4, duration: 522 ms
Test#3, duration: 491 ms
Test#2, duration: 503 ms
Test#1, duration: 510 ms
Test#0, duration: 506 ms

net.sf.beanlib.util.concurrent.ConcurrentLinkedBlockingQueueTestMain
Thread pool size is 3
Total items per test: 1000000, Tested: 10 times
Avg: 503 ms
min: 476 ms
max: 522 ms

Test#9, duration: 782 ms
Test#8, duration: 757 ms
Test#7, duration: 798 ms
Test#6, duration: 947 ms
Test#5, duration: 814 ms
Test#4, duration: 1096 ms
Test#3, duration: 1316 ms
Test#2, duration: 1074 ms
Test#1, duration: 1345 ms
Test#0, duration: 1280 ms

net.sf.beanlib.util.concurrent.LinkedBlockingQueueTestMain
Thread pool size is 3
Total items per test: 1000000, Tested: 10 times
Avg: 1020 ms
min: 757 ms
max: 1345 ms

Test#9, duration: 483 ms

Test#8, duration: 452 ms
Test#7, duration: 494 ms
Test#6, duration: 503 ms
Test#5, duration: 478 ms
Test#4, duration: 469 ms
Test#3, duration: 498 ms
Test#2, duration: 471 ms
Test#1, duration: 474 ms
Test#0, duration: 506 ms

net.sf.beanlib.util.concurrent.ConcurrentLinkedBlockingQueueTestMain
Thread pool size is 3
Total items per test: 1000000, Tested: 10 times
Avg: 482 ms
min: 452 ms
max: 506 ms

Test#9, duration: 812 ms
Test#8, duration: 912 ms
Test#7, duration: 760 ms
Test#6, duration: 737 ms
Test#5, duration: 747 ms
Test#4, duration: 708 ms
Test#3, duration: 761 ms
Test#2, duration: 686 ms
Test#1, duration: 702 ms
Test#0, duration: 675 ms

net.sf.beanlib.util.concurrent.LinkedBlockingQueueTestMain
Thread pool size is 3
Total items per test: 1000000, Tested: 10 times
Avg: 750 ms
min: 675 ms
max: 912 ms

Test#9, duration: 451 ms
Test#8, duration: 484 ms
Test#7, duration: 494 ms
Test#6, duration: 509 ms
Test#5, duration: 494 ms
Test#4, duration: 491 ms
Test#3, duration: 495 ms
Test#2, duration: 503 ms
Test#1, duration: 507 ms
Test#0, duration: 522 ms

net.sf.beanlib.util.concurrent.ConcurrentLinkedBlockingQueueTestMain
Thread pool size is 3
Total items per test: 1000000, Tested: 10 times
Avg: 495 ms
min: 451 ms
max: 522 ms

Test#9, duration: 704 ms
Test#8, duration: 557 ms
Test#7, duration: 784 ms
Test#6, duration: 1125 ms
Test#5, duration: 930 ms
Test#4, duration: 1065 ms
Test#3, duration: 1060 ms
Test#2, duration: 1022 ms
Test#1, duration: 560 ms
Test#0, duration: 355 ms

net.sf.beanlib.util.concurrent.LinkedBlockingQueueTestMain
Thread pool size is 3
Total items per test: 1000000, Tested: 10 times
Avg: 816 ms
min: 355 ms
max: 1125 ms

Test#9, duration: 429 ms
Test#8, duration: 477 ms
Test#7, duration: 479 ms
Test#6, duration: 481 ms
Test#5, duration: 491 ms
Test#4, duration: 490 ms
Test#3, duration: 465 ms
Test#2, duration: 473 ms
Test#1, duration: 473 ms
Test#0, duration: 480 ms

net.sf.beanlib.util.concurrent.ConcurrentLinkedBlockingQueueTestMain
Thread pool size is 3
Total items per test: 1000000, Tested: 10 times
Avg: 473 ms
min: 429 ms
max: 491 ms

Test#9, duration: 764 ms
Test#8, duration: 539 ms
Test#7, duration: 655 ms
Test#6, duration: 696 ms
Test#5, duration: 1056 ms
Test#4, duration: 927 ms
Test#3, duration: 1337 ms
Test#2, duration: 1033 ms
Test#1, duration: 1281 ms
Test#0, duration: 1037 ms

net.sf.beanlib.util.concurrent.LinkedBlockingQueueTestMain
Thread pool size is 3
Total items per test: 1000000, Tested: 10 times
Avg: 932 ms

min: 539 ms
max: 1337 ms