step 0 { 0, 3 } { 1, 2 }

step 1 { 0, 1 } { 2, 3 }

step 2 { 0, 2 } { 1, 3 }

Starting unit test "Single Thread Reference validation with 4 elements".

Test duration: 0.8983ms

Test was successful.

Starting unit test "Locked Resource validation with 4 elements".

Test duration: 25.5567ms

Test was successful.

Starting unit test "Evenly Locked validation with 4 elements".

Test duration: 0.2729ms

Test was successful.

Starting unit test "Locked Round Robin Tournament validation with 4 elements".

Test duration: 0.7107ms

Test was successful.

Starting unit test "Synchronized Round Robin Tournament validation with 4 elements".

Test duration: 2.8612ms

Test was successful.

Starting unit test "Single Thread Reference validation with 16 elements".

Test duration: 0.0019ms

Test was successful.

Starting unit test "Locked Resource validation with 16 elements".

Test duration: 0.2136ms

Test was successful.

Starting unit test "Evenly Locked validation with 16 elements".

Test duration: 0.2633ms

Test was successful.

Starting unit test "Locked Round Robin Tournament validation with 16 elements".

Test duration: 0.2575ms

Test was successful.

Starting unit test "Synchronized Round Robin Tournament validation with 16 elements".

Test duration: 0.1475ms

Test was successful.

Starting unit test "Single Thread Reference validation with 1024 elements".

Test duration: 12.974ms

Test was successful.

Starting unit test "Locked Resource validation with 1024 elements".

Test duration: 423.976ms

Test was successful.

Starting unit test "Evenly Locked validation with 1024 elements".

Test duration: 614.1846ms

Test was successful.

Starting unit test "Locked Round Robin Tournament validation with 1024 elements".

Test duration: 494.6908ms

Test was successful.

Starting unit test "Synchronized Round Robin Tournament validation with 1024 elements".

Test duration: 3.222ms

Test was successful.

Starting unit test "Single Thread Reference validation with 59 elements".

Test duration: 0.0153ms

Test was successful.

Starting unit test "Locked Resource validation with 59 elements".

Test duration: 1.6709ms

Test was successful.

Starting unit test "Evenly Locked validation with 59 elements".

Test duration: 2.7043ms

Test was successful.

Starting unit test "Locked Round Robin Tournament validation with 59 elements".

Test duration: 1.6507ms

Test was successful.

Starting unit test "Synchronized Round Robin Tournament validation with 59 elements".

Test duration: 0.1019ms

Test was successful.

---------------------------------------------------------------------------------

Initializing test run with 16 elements.

Tests are repeated 100 times.

Starting "Overhead" test with "Single Thread Reference" distribution.

Minimum duration: 0.0003ms

Maximum duration: 0.3627ms

Average duration: 0.004ms

Starting "Overhead" test with "Locked Resource" distribution.

Minimum duration: 0.1379ms

Maximum duration: 1.1389ms

Average duration: 0.1785ms

Starting "Overhead" test with "Evenly Locked" distribution.

Minimum duration: 0.195ms

Maximum duration: 0.4442ms

Average duration: 0.2345ms

Starting "Overhead" test with "Locked Round Robin Tournament" distribution.

Minimum duration: 0.11ms

Maximum duration: 0.8284ms

Average duration: 0.181ms

Starting "Overhead" test with "Synchronized Round Robin Tournament" distribution.

Minimum duration: 0.0503ms

Maximum duration: 2.0911ms

Average duration: 0.0792ms

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Initializing test run with 128 elements.

Tests are repeated 100 times.

Starting "Overhead" test with "Single Thread Reference" distribution.

Minimum duration: 0.0224ms

Maximum duration: 0.0272ms

Average duration: 0.0226ms

Starting "Overhead" test with "Locked Resource" distribution.

Minimum duration: 6.3394ms

Maximum duration: 12.0872ms

Average duration: 7.7045ms

Starting "Overhead" test with "Evenly Locked" distribution.

Minimum duration: 7.5768ms

Maximum duration: 17.3721ms

Average duration: 10.7147ms

Starting "Overhead" test with "Locked Round Robin Tournament" distribution.

Minimum duration: 6.3632ms

Maximum duration: 24.6334ms

Average duration: 10.5974ms

Starting "Overhead" test with "Synchronized Round Robin Tournament" distribution.

Minimum duration: 0.0689ms

Maximum duration: 0.1282ms

Average duration: 0.0813ms

---------------------------------------------------------------------------------

Initializing test run with 1024 elements.

Tests are repeated 100 times.

Starting "Overhead" test with "Single Thread Reference" distribution.

Minimum duration: 1.3364ms

Maximum duration: 1.575ms

Average duration: 1.3921ms

Starting "Overhead" test with "Locked Resource" distribution.

Minimum duration: 394.1548ms

Maximum duration: 485.9186ms

Average duration: 437.7784ms

Starting "Overhead" test with "Evenly Locked" distribution.

Minimum duration: 420.431ms

Maximum duration: 604.0519ms

Average duration: 459.6075ms

Starting "Overhead" test with "Locked Round Robin Tournament" distribution.

Minimum duration: 401.2609ms

Maximum duration: 452.0758ms

Average duration: 416.3999ms

Starting "Overhead" test with "Synchronized Round Robin Tournament" distribution.

Minimum duration: 0.44ms

Maximum duration: 0.7572ms

Average duration: 0.4649ms

---------------------------------------------------------------------------------

Initializing test run with 16 elements.

Tests are repeated 100 times.

Starting "Fixed Duration" test with "Single Thread Reference" distribution.

Minimum duration: 278.2907ms

Maximum duration: 327.3622ms

Average duration: 300.8804ms

Starting "Fixed Duration" test with "Locked Resource" distribution.

Minimum duration: 108.7302ms

Maximum duration: 129.5049ms

Average duration: 117.7662ms

Starting "Fixed Duration" test with "Evenly Locked" distribution.

Minimum duration: 143.1801ms

Maximum duration: 197.8354ms

Average duration: 163.419ms

Starting "Fixed Duration" test with "Locked Round Robin Tournament" distribution.

Minimum duration: 82.0951ms

Maximum duration: 92.0572ms

Average duration: 86.1029ms

Starting "Fixed Duration" test with "Synchronized Round Robin Tournament" distribution.

Minimum duration: 79.9526ms

Maximum duration: 93.5643ms

Average duration: 85.8138ms

---------------------------------------------------------------------------------

Initializing test run with 128 elements.

Tests are repeated 100 times.

Starting "Fixed Duration" test with "Single Thread Reference" distribution.

Minimum duration: 19218.3ms

Maximum duration: 23472.7508ms

Average duration: 19697.9278ms

Starting "Fixed Duration" test with "Locked Resource" distribution.

Minimum duration: 5927.212ms

Maximum duration: 6210.3701ms

Average duration: 6021.6229ms

Starting "Fixed Duration" test with "Evenly Locked" distribution.

Minimum duration: 8422.1344ms

Maximum duration: 10429.4883ms

Average duration: 8900.7402ms

Starting "Fixed Duration" test with "Locked Round Robin Tournament" distribution.

Minimum duration: 5777.9611ms

Maximum duration: 5871.766ms

Average duration: 5803.7769ms

Starting "Fixed Duration" test with "Synchronized Round Robin Tournament" distribution.

Minimum duration: 5736.0018ms

Maximum duration: 5901.3399ms

Average duration: 5778.7872ms

---------------------------------------------------------------------------------

Initializing test run with 16 elements.

Tests are repeated 100 times.

Starting "Random Duration" test with "Single Thread Reference" distribution.

Minimum duration: 300.704ms

Maximum duration: 365.2933ms

Average duration: 332.6056ms

Starting "Random Duration" test with "Locked Resource" distribution.

Minimum duration: 115.5867ms

Maximum duration: 150.094ms

Average duration: 132.9159ms

Starting "Random Duration" test with "Evenly Locked" distribution.

Minimum duration: 158.5955ms

Maximum duration: 205.6413ms

Average duration: 180.2173ms

Starting "Random Duration" test with "Locked Round Robin Tournament" distribution.

Minimum duration: 86.8226ms

Maximum duration: 105.9655ms

Average duration: 93.0483ms

Starting "Random Duration" test with "Synchronized Round Robin Tournament" distribution.

Minimum duration: 86.9217ms

Maximum duration: 104.1858ms

Average duration: 94.8244ms

---------------------------------------------------------------------------------

Initializing test run with 128 elements.

Tests are repeated 100 times.

Starting "Random Duration" test with "Single Thread Reference" distribution.

Minimum duration: 19860.6554ms

Maximum duration: 23451.0614ms

Average duration: 20419.6817ms

Starting "Random Duration" test with "Locked Resource" distribution.

Minimum duration: 5997.2998ms

Maximum duration: 6290.6201ms

Average duration: 6079.1154ms

Starting "Random Duration" test with "Evenly Locked" distribution.

Minimum duration: 5820.8507ms

Maximum duration: 9286.7325ms

Average duration: 6186.7951ms

Starting "Random Duration" test with "Locked Round Robin Tournament" distribution.

Minimum duration: 3838.7575ms

Maximum duration: 3869.7336ms

Average duration: 3855.3848ms

Starting "Random Duration" test with "Synchronized Round Robin Tournament" distribution.

Minimum duration: 3829.22ms

Maximum duration: 3858.8026ms

Average duration: 3841.921ms

---------------------------------------------------------------------------------

Initializing test run with 16 elements.

Tests are repeated 100 times.

Starting "Busy Duration" test with "Single Thread Reference" distribution.

Minimum duration: 0.0734ms

Maximum duration: 0.2726ms

Average duration: 0.0758ms

Starting "Busy Duration" test with "Locked Resource" distribution.

Minimum duration: 0.1523ms

Maximum duration: 5.2926ms

Average duration: 0.2775ms

Starting "Busy Duration" test with "Evenly Locked" distribution.

Minimum duration: 0.2517ms

Maximum duration: 0.3232ms

Average duration: 0.283ms

Starting "Busy Duration" test with "Locked Round Robin Tournament" distribution.

Minimum duration: 0.1177ms

Maximum duration: 0.2729ms

Average duration: 0.1274ms

Starting "Busy Duration" test with "Synchronized Round Robin Tournament" distribution.

Minimum duration: 0.1023ms

Maximum duration: 0.2492ms

Average duration: 0.1101ms

---------------------------------------------------------------------------------

Initializing test run with 128 elements.

Tests are repeated 100 times.

Starting "Busy Duration" test with "Single Thread Reference" distribution.

Minimum duration: 4.6954ms

Maximum duration: 5.3208ms

Average duration: 4.8797ms

Starting "Busy Duration" test with "Locked Resource" distribution.

Minimum duration: 7.4277ms

Maximum duration: 13.2694ms

Average duration: 8.6197ms

Starting "Busy Duration" test with "Evenly Locked" distribution.

Minimum duration: 8.6169ms

Maximum duration: 12.8277ms

Average duration: 11.7944ms

Starting "Busy Duration" test with "Locked Round Robin Tournament" distribution.

Minimum duration: 7.1348ms

Maximum duration: 13.6055ms

Average duration: 7.6586ms

Starting "Busy Duration" test with "Synchronized Round Robin Tournament" distribution.

Minimum duration: 1.3492ms

Maximum duration: 2.5715ms

Average duration: 1.4478ms

---------------------------------------------------------------------------------

Initializing test run with 1024 elements.

Tests are repeated 100 times.

Starting "Busy Duration" test with "Single Thread Reference" distribution.

Minimum duration: 311.4885ms

Maximum duration: 319.9701ms

Average duration: 314.5018ms

Starting "Busy Duration" test with "Locked Resource" distribution.

Minimum duration: 452.6217ms

Maximum duration: 514.6477ms

Average duration: 467.1153ms

Starting "Busy Duration" test with "Evenly Locked" distribution.

Minimum duration: 486.9732ms

Maximum duration: 561.9077ms

Average duration: 520.4871ms

Starting "Busy Duration" test with "Locked Round Robin Tournament" distribution.

Minimum duration: 464.6878ms

Maximum duration: 515.9582ms

Average duration: 474.8253ms

Starting "Busy Duration" test with "Synchronized Round Robin Tournament" distribution.

Minimum duration: 82.7907ms

Maximum duration: 116.3625ms

Average duration: 87.5878ms