

| Benchmark             | (capacity) | (type) | Mode | Cnt | Score      | Error   | Units | Avg. Score per set | B36-B35    | % Increase |
|-----------------------|------------|--------|------|-----|------------|---------|-------|--------------------|------------|------------|
| B35                   |            |        |      |     |            |         |       |                    |            |            |
| ProducerConsumer.test | 100        | LBQ    | avgt | 25  | 333.41 ±   | 68.085  | ns/op | 323.59375          | -3.5       | -1.0816    |
| ProducerConsumer.test | 100        | ABQ_NF | avgt | 25  | 216.787 ±  | 22.793  | ns/op | 207.6155           | -0.864     | -0.41615   |
| ProducerConsumer.test | 100        | ABQ_F  | avgt | 25  | 7881.259 ± | 104.982 | ns/op | 7780.60825         | 249.164    | 3.202372   |
| ProducerConsumer.test | 100        | PBQ    | avgt | 25  | 344.965 ±  | 22.407  | ns/op | 343.769            | -10.3808   | -3.01969   |
| ProducerConsumer.test | 100        | LBQ    | avgt | 25  | 279.526 ±  | 56.145  | ns/op |                    |            |            |
| ProducerConsumer.test | 100        | ABQ_NF | avgt | 25  | 209.375 ±  | 26.772  | ns/op |                    |            |            |
| ProducerConsumer.test | 100        | ABQ_F  | avgt | 25  | 7694.085 ± | 82.084  | ns/op |                    |            |            |
| ProducerConsumer.test | 100        | PBQ    | avgt | 25  | 332.91 ±   | 12.844  | ns/op |                    |            |            |
| ProducerConsumer.test | 100        | LBQ    | avgt | 25  | 359.117 ±  | 68.324  | ns/op |                    |            |            |
| ProducerConsumer.test | 100        | ABQ_NF | avgt | 25  | 196.614 ±  | 10.345  | ns/op |                    |            |            |
| ProducerConsumer.test | 100        | ABQ_F  | avgt | 25  | 7797.276 ± | 64.907  | ns/op |                    |            |            |
| ProducerConsumer.test | 100        | PBQ    | avgt | 25  | 353.849 ±  | 23.095  | ns/op |                    |            |            |
| ProducerConsumer.test | 100        | LBQ    | avgt | 25  | 322.322 ±  | 43.373  | ns/op |                    |            |            |
| ProducerConsumer.test | 100        | ABQ_NF | avgt | 25  | 207.686 ±  | 17.936  | ns/op |                    |            |            |
| ProducerConsumer.test | 100        | ABQ_F  | avgt | 25  | 7749.813 ± | 56.073  | ns/op |                    |            |            |
| ProducerConsumer.test | 100        | PBQ    | avgt | 25  | 343.352 ±  | 10.774  | ns/op |                    |            |            |
| B36                   |            |        |      |     |            |         |       |                    |            |            |
| ProducerConsumer.test | 100        | LBQ    | avgt | 25  | 336.545 ±  | 53.324  | ns/op | 320.09375          |            |            |
| ProducerConsumer.test | 100        | ABQ_NF | avgt | 25  | 208.37 ±   | 18.851  | ns/op | 206.7515           |            |            |
| ProducerConsumer.test | 100        | ABQ_F  | avgt | 25  | 8074.374 ± | 53.424  | ns/op | 8029.77225         |            |            |
| ProducerConsumer.test | 100        | PBQ    | avgt | 25  | 322.221 ±  | 10.362  | ns/op | 333.38825          |            |            |
| ProducerConsumer.test | 100        | LBQ    | avgt | 25  | 304.765 ±  | 62.186  | ns/op |                    |            |            |
| ProducerConsumer.test | 100        | ABQ_NF | avgt | 25  | 205.856 ±  | 17.34   | ns/op |                    |            |            |
| ProducerConsumer.test | 100        | ABQ_F  | avgt | 25  | 8054.578 ± | 84.82   | ns/op |                    |            |            |
| ProducerConsumer.test | 100        | PBQ    | avgt | 25  | 332.418 ±  | 30.409  | ns/op |                    |            |            |
| ProducerConsumer.test | 100        | LBQ    | avgt | 25  | 315.671 ±  | 66.707  | ns/op |                    |            |            |
| ProducerConsumer.test | 100        | ABQ_NF | avgt | 25  | 212.466 ±  | 14.071  | ns/op |                    |            |            |
| ProducerConsumer.test | 100        | ABQ_F  | avgt | 25  | 8053.476 ± | 54.872  | ns/op |                    |            |            |
| ProducerConsumer.test | 100        | PBQ    | avgt | 25  | 345.461 ±  | 25.591  | ns/op |                    |            |            |
| ProducerConsumer.test | 100        | LBQ    | avgt | 25  | 323.394 ±  | 53.851  | ns/op |                    |            |            |
| ProducerConsumer.test | 100        | ABQ_NF | avgt | 25  | 200.314 ±  | 12.211  | ns/op |                    |            |            |
| ProducerConsumer.test | 100        | ABQ_F  | avgt | 25  | 7936.661 ± | 60.252  | ns/op |                    |            |            |
| ProducerConsumer.test | 100        | PBQ    | avgt | 25  | 333.453 ±  | 21.11   | ns/op |                    |            |            |
| JDK-Baseline          |            |        |      |     |            |         |       | Fix-base           | % Increase |            |
| ProducerConsumer.test | 100        | LBQ    | avgt | 25  | 321.014 ±  | 63.798  | ns/op | 337.1623333        | -13.3387   | -3.95616   |
| ProducerConsumer.test | 100        | ABQ_NF | avgt | 25  | 221.564 ±  | 14.724  | ns/op | 207.274            | 4.744      | 2.288758   |
| ProducerConsumer.test | 100        | ABQ_F  | avgt | 25  | 8607.567 ± | 518.599 | ns/op | 8323.957667        | 155.9507   | 1.873516   |
| ProducerConsumer.test | 100        | PBQ    | avgt | 25  | 339.839 ±  | 34.628  | ns/op | 338.4803333        | 5.411333   | 1.598714   |
| ProducerConsumer.test | 100        | LBQ    | avgt | 25  | 337.386 ±  | 42.148  | ns/op |                    |            |            |
| ProducerConsumer.test | 100        | ABQ_NF | avgt | 25  | 201.345 ±  | 16.44   | ns/op |                    |            |            |
| ProducerConsumer.test | 100        | ABQ_F  | avgt | 25  | 8213.115 ± | 132.023 | ns/op |                    |            |            |
| ProducerConsumer.test | 100        | PBQ    | avgt | 25  | 354.298 ±  | 33.9    | ns/op |                    |            |            |
| ProducerConsumer.test | 100        | LBQ    | avgt | 25  | 353.087 ±  | 66.303  | ns/op |                    |            |            |
| ProducerConsumer.test | 100        | ABQ_NF | avgt | 25  | 198.913 ±  | 18.84   | ns/op |                    |            |            |
| ProducerConsumer.test | 100        | ABQ_F  | avgt | 25  | 8151.191 ± | 65.714  | ns/op |                    |            |            |
| ProducerConsumer.test | 100        | PBQ    | avgt | 25  | 321.304 ±  | 17.592  | ns/op |                    |            |            |
| Full cache removal    |            |        |      |     |            |         |       |                    |            |            |
| ProducerConsumer.test | 100        | LBQ    | avgt | 25  | 357.803 ±  | 63.394  | ns/op | 350.501            |            |            |
| ProducerConsumer.test | 100        | ABQ_NF | avgt | 25  | 206.71 ±   | 17.12   | ns/op | 202.53             |            |            |
| ProducerConsumer.test | 100        | ABQ_F  | avgt | 25  | 8175.128 ± | 66.153  | ns/op | 8168.007           |            |            |
| ProducerConsumer.test | 100        | PBQ    | avgt | 25  | 339.439 ±  | 30.913  | ns/op | 333.069            |            |            |
| ProducerConsumer.test | 100        | LBQ    | avgt | 25  | 344.504 ±  | 51.477  | ns/op |                    |            |            |
| ProducerConsumer.test | 100        | ABQ_NF | avgt | 25  | 198.169 ±  | 13.474  | ns/op |                    |            |            |
| ProducerConsumer.test | 100        | ABQ_F  | avgt | 25  | 8134.108 ± | 46.363  | ns/op |                    |            |            |
| ProducerConsumer.test | 100        | PBQ    | avgt | 25  | 323.653 ±  | 22.377  | ns/op |                    |            |            |
| ProducerConsumer.test | 100        | LBQ    | avgt | 25  | 349.196 ±  | 53.174  | ns/op |                    |            |            |
| ProducerConsumer.test | 100        | ABQ_NF | avgt | 25  | 202.711 ±  | 15.226  | ns/op |                    |            |            |
| ProducerConsumer.test | 100        | ABQ_F  | avgt | 25  | 8194.785 ± | 57.267  | ns/op |                    |            |            |
| ProducerConsumer.test | 100        | PBQ    | avgt | 25  | 336.115 ±  | 24.29   | ns/op |                    |            |            |
| Fast-path Restored    |            |        |      |     |            |         |       |                    |            |            |
| ProducerConsumer.test | 100        | LBQ    | avgt | 25  | 320.241 ±  | 54.222  | ns/op | 324.5953333        |            |            |
| ProducerConsumer.test | 100        | ABQ_NF | avgt | 25  | 202.179 ±  | 17.486  | ns/op | 203.3093333        |            |            |
| ProducerConsumer.test | 100        | ABQ_F  | avgt | 25  | 8006.221 ± | 77.918  | ns/op | 8160.277           |            |            |
| ProducerConsumer.test | 100        | PBQ    | avgt | 25  | 369.64 ±   | 70.242  | ns/op | 354.464            |            |            |
| ProducerConsumer.test | 100        | LBQ    | avgt | 25  | 340.777 ±  | 57.264  | ns/op |                    |            |            |
| ProducerConsumer.test | 100        | ABQ_NF | avgt | 25  | 206.407 ±  | 13.393  | ns/op |                    |            |            |
| ProducerConsumer.test | 100        | ABQ_F  | avgt | 25  | 8263.664 ± | 100.956 | ns/op |                    |            |            |
| ProducerConsumer.test | 100        | PBQ    | avgt | 25  | 341.465 ±  | 13.978  | ns/op |                    |            |            |
| ProducerConsumer.test | 100        | LBQ    | avgt | 25  | 312.768 ±  | 68.037  | ns/op |                    |            |            |
| ProducerConsumer.test | 100        | ABQ_NF | avgt | 25  | 201.342 ±  | 12.461  | ns/op |                    |            |            |
| ProducerConsumer.test | 100        | ABQ_F  | avgt | 25  | 8210.946 ± | 76.185  | ns/op |                    |            |            |
| ProducerConsumer.test | 100        | PBQ    | avgt | 25  | 352.287 ±  | 32.654  | ns/op |                    |            |            |