|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Implementation | Number of threads | | | | | |
| 1 | | 2 | | 4 | |
| **Average** | **Std** | **Average** | **Std** | **Average** | **Std** |
| Serial | 132.8 | 13.2367715555 |  | | | |
| One mutex for entire list | 137.4 | 10.4668789787 | 209.39 | 16.9829950601 | 209.68 | 11.9332148293 |
| Read-Write lock | 140.95 | 13.2278975173 | 82.55 | 6.63990842093 | 76.9 | 4.73008851648 |

**Case 1**

*n* = 1,000 and *m* = 10,000, *mMember* = 0.99, *mIndert* = 0.005, *mDelete* = 0.005

Case 2

*n* = 1,000 and *m* = 10,000, *mMember* = 0.90, *mIndert* = 0.05, *mDelete* = 0.05

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Implementation | Number of threads | | | | | |
| 1 | | 2 | | 4 | |
| **Average** | **Std** | **Average** | **Std** | **Average** | **Std** |
| Serial | 239.41 | 12.8339000268 |  | | | |
| One mutex for entire list | 242.33 | 12.4884229217 | 315.95 | 21.1485247951 | 324.61 | 18.4975537558 |
| Read-Write lock | 243.96 | 13.955861156 | 146.7 | 13.0604654425 | 158.32 | 18.6519855687 |

Case 3

*n* = 1,000 and *m* = 10,000, *mMember* = 0.50, *mIndert* = 0.25, *mDelete* = 0.25

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Implementation | Number of threads | | | | | |
| 1 | | 2 | | 4 | |
| **Average** | **Std** | **Average** | **Std** | **Average** | **Std** |
| Serial | 579.22 | 19.291794456 |  | | | |
| One mutex for entire list | 607.98 | 40.9142932719 | 683.59 | 39.9403836039 | 711.96 | 50.4090179522 |
| Read-Write lock | 622.44 | 57.9204121309 | 586.76 | 60.8459090364 | 582.37 | 50.0316374655 |