The following simulation results are reported for a sequence of **1000 randomly generated requests**. These requests are present in the file **requests.txt.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Parameters: r, N , Ts | Scheduling policy | Requests | Throughput (requests/s) | <Avg., Min., Max., StdDev.> of response time (s) |
| 7500, 512, 4ms | Random | Sequence of randomly generated addresses: <platter, cylinder, sector> | 81.204424 requests/s | Avg = 6.204474 s  Min = 0.007900 s  Max = 12.314600 s  StdDev = 3.597348 s |
| 15000, 512, 4ms | Random | Sequence of randomly generated addresses: <platter, cylinder, sector> | 121.524402 requests/s | Avg = 4.161297 s  Min = 0.005700 s  Max = 8.228800 s  StdDev = 2.406274 s |
| 7500, 512, 4ms | FIFO | Sequence of randomly generated addresses: <platter, cylinder, sector> | 83.191907 requests/s | Avg = 5.998364 s  Min = 0.012700 s  Max = 12.020400 s  StdDev = 3.459996 s |
| 15000, 512, 4ms | FIFO | Sequence of randomly generated addresses: <platter, cylinder, sector> | 124.405962 requests/s | Avg = 4.019643 s  Min = 0.008100 s  Max = 8.038200 s  StdDev = 2.310013 s |
| 7500, 512, 4ms | SSTF | Sequence of randomly generated addresses: <platter, cylinder, sector> | 124.893840 requests/s | Avg = 3.949679 s  Min = 0.009600 s  Max = 8.006800 s  StdDev = 2.303685 s |
| 15000, 512, 4ms | SSTF | Sequence of randomly generated addresses: <platter, cylinder, sector> | 249.289525 requests/s | Avg = 1.978949 s  Min = 0.004800 s  Max = 4.011400 s  StdDev = 1.154449 s |
| 7500, 512, 4ms | SCAN | Sequence of randomly generated addresses: <platter, cylinder, sector> | 122.153816 requests/s | Avg = 4.091139 s  Min = 0.009600 s  Max = 8.186400 s  StdDev = 2.367833 s |
| 15000, 512, 4ms | SCAN | Sequence of randomly generated addresses: <platter, cylinder, sector> | 243.712225 requests/s | Avg = 2.049799 s  Min = 0.004800 s  Max = 4.103200 s  StdDev = 1.187312 s |
| 7500, 512, 4ms | C-SCAN | Sequence of randomly generated addresses: <platter, cylinder, sector> | 124.447763 requests/s | Avg = 4.066834 s  Min = 0.009600 s  Max = 8.035500 s  StdDev = 2.337631 s |
| 15000, 512, 4ms | C-SCAN | Sequence of randomly generated addresses: <platter, cylinder, sector> | 248.169748 requests/s | Avg = 2.038197 s  Min = 0.004800 s  Max = 4.029500 s  StdDev = 1.172847 s |

SSTF, SCAN and C-SCAN scheduling algorithms are performing quite better than FIFO and

Random scheduling algorithms.