**CS553 PA #3**

**Sort on Single Shared Memory Node**

**Fatima Mariyam A20527616**

Table 1: Performance evaluation of Single Node TeraSort (using best # of threads for each case)

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Experiment | Shared  Memory  (1GB) | Linux Sort  (1GB) | Shared  Memory  (4GB) | Linux Sort  (4GB) | Shared  Memory  (16GB) | Linux  Sort  (16GB) | Shared  Memory  (64GB) | Linux  Sort  (64GB) |
| Number of  Threads |  |  |  |  |  |  |  |  |
| Sort Approach  (e.g., in-memory  / external) |  |  |  |  |  |  |  |  |
| Sort Algorithm (e.g., quicksort / merge sort / etc.) |  |  |  |  |  |  |  |  |
| Data Read (GB) |  |  |  |  |  |  |  |  |
| Data Write (GB) |  |  |  |  |  |  |  |  |
| Sort Time (sec) |  |  |  |  |  |  |  |  |
| Overall, I/O  Throughput  (MB/sec) |  |  |  |  |  |  |  |  |
| Overall CPU  Utilization (%) |  |  |  |  |  |  |  |  |
| Average Memory  Utilization (GB) |  |  |  |  |  |  |  |  |