Ethereum Driver Performance Test

**System Configuration**

* Server IP – 172.25.41.52
* RAM – 16 GB
* Cores – 4

**Test 1**

**Condition**

* Select Query with simple range where clause

**Test Results**

| Block Range | 1st Iteration (ms) | 2nd Iteration (ms) | 3rd Iteration (ms) | Avg (sec) |
| --- | --- | --- | --- | --- |
| 1 | 43 | 40 | 35 | 0.04 |
| 100 | 760 | 319 | 211 | 0.43 |
| 200 | 416 | 349 | 2020 | 0.93 |
| 500 | 924 | 1442 | 803 | 1.06 |
| 1000 | 2177 | 2048 | 6508 | 3.58 |
| 3000 | 7102 | 4462 | 10579 | 7.38 |
| 20000 | 65823 | 196626 | 53983 | 105.48 |

**Test 2**

**Condition**

* Select Query with range where clause and Order by Clause

**Test Results**

| Block Range | 1st Iteration (ms) | 2nd Iteration (ms) | 3rd Iteration (ms) | Avg (sec) |
| --- | --- | --- | --- | --- |
| 1 | 198 | 42 | 8 | 0.08 |
| 100 | 359 | 237 | 215 | 0.27 |
| 200 | 1216 | 344 | 655 | 0.74 |
| 500 | 6700 | 993 | 2635 | 3.44 |
| 1000 | 2050 | 2326 | 1821 | 2.07 |
| 3000 | 7126 | 9491 | 7472 | 8.03 |
| 20000 | 36870 | 33348 | 135107 | 68.44 |

**Test 3**

**Condition**

* Select Query with range where clause and Group by Clause

**Test Results**

| Block Range | 1st Iteration (ms) | 2nd Iteration (ms) | 3rd Iteration (ms) | Avg (sec) |
| --- | --- | --- | --- | --- |
| 1 | 51 | 43 | 52 | 0.05 |
| 100 | 269 | 251 | 232 | 0.25 |
| 200 | 550 | 436 | 654 | 0.55 |
| 500 | 1070 | 2682 | 813 | 1.52 |
| 1000 | 1872 | 4662 | 2359 | 2.95 |
| 3000 | 15824 | 22018 | 17501 | 18.45 |
| 20000 | 78000 | 68425 | 43461 | 63.30 |