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 only

**Test Results**

| Blocks Range | 1st Iteration (ms) | 2nd Iteration (ms) | 3rd Iteration (ms) | Avg (sec) |
| --- | --- | --- | --- | --- |
| 1 | 66 | 40 | 53 | 0.05 |
| 100 | 211 | 318 | 297 | 0.28 |
| 200 | 1489 | 858 | 1417 | 1.25 |
| 500 | 1461 | 928 | 1007 | 1.13 |
| 1000 | 1826 | 1895 | 1842 | 1.85 |
| 3000 | 9930 | 7380 | 16349 | 11.22 |
| 20000 | 65441 | 165400 | 119364 | 116.74 |

**Test 2**

**Condition**

* Select Query with range where clause and Order by Clause

**Test Results**

| Blocks Range | 1st Iteration (ms) | 2nd Iteration (ms) | 3rd Iteration (ms) | Avg (sec) |
| --- | --- | --- | --- | --- |
| 1 | 234 | 806 | 190 | 0.41 |
| 100 | 482 | 372 | 238 | 0.36 |
| 200 | 1679 | 601 | 402 | 0.89 |
| 500 | 1357 | 755 | 940 | 1.02 |
| 1000 | 1804 | 5334 | 1717 | 2.95 |
| 3000 | 11290 | 5184 | 4516 | 7.00 |
| 20000 | 123167 | 93752 | 181892 | 132.94 |

**Test 3**

**Condition**

* Select Query with range where clause and Group by Clause

**Test Results**

| Blocks Range | 1st Iteration (ms) | 2nd Iteration (ms) | 3rd Iteration (ms) | Avg (sec) |
| --- | --- | --- | --- | --- |
| 1 | 325 | 21 | 32 | 0.13 |
| 100 | 240 | 140 | 211 | 0.20 |
| 200 | 467 | 424 | 714 | 0.54 |
| 500 | 5560 | 139179 | 1280 | 48.67 |
| 1000 | 1573 | 2144 | 1647 | 1.79 |
| 3000 | 7847 | 8435 | 15888 | 10.72 |
| 20000 | 28059 | 183819 | 48958 | 86.95 |