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**

**1st Iteration**

**\* Block Range of :: 1 Blocks**

Query Execution Start at 1531127052900

- Dataframe :: 34ms

- ResultSet :: 0ms

Query Execution End at 1531127052935

Total Time :: 38ms

**\* Block Range of :: 100 Blocks**

Query Execution Start at 1531127052941

- Dataframe :: 349ms

- ResultSet :: 0ms

Query Execution End at 1531127053291

Total Time :: 356ms

**\* Block Range of :: 200 Blocks**

Query Execution Start at 1531127053296

- Dataframe :: 511ms

- ResultSet :: 0ms

Query Execution End at 1531127053808

Total Time :: 517ms

**\* Block Range of :: 500 Blocks**

Query Execution Start at 1531127053813

- Dataframe :: 2056ms

- ResultSet :: 0ms

Query Execution End at 1531127055876

Total Time :: 2068ms

**\* Block Range of :: 1000 Blocks**

Query Execution Start at 1531127055883

- Dataframe :: 1844ms

- ResultSet :: 0ms

Query Execution End at 1531127057728

Total Time :: 1852ms

**\* Block Range of :: 3000 Blocks**

Query Execution Start at 1531127057734

- Dataframe :: 5059ms

- ResultSet :: 0ms

Query Execution End at 1531127062794

Total Time :: 5065ms

**\* Block Range of :: 20000 Blocks**

Query Execution Start at 1531127062798

- Dataframe :: 33213ms

- ResultSet :: 0ms

Query Execution End at 1531127096022

Total Time :: 33228ms

**2nd Iteration**

**\* Block Range of :: 1 Blocks**

Query Execution Start at 1531127229976

- Dataframe :: 43ms

- ResultSet :: 0ms

Query Execution End at 1531127230019

Total Time :: 45ms

**\* Block Range of :: 100 Blocks**

Query Execution Start at 1531127230023

- Dataframe :: 183ms

- ResultSet :: 0ms

Query Execution End at 1531127230206

Total Time :: 187ms

**\* Block Range of :: 200 Blocks**

Query Execution Start at 1531127230210

- Dataframe :: 391ms

- ResultSet :: 0ms

Query Execution End at 1531127230601

Total Time :: 395ms

**\* Block Range of :: 500 Blocks**

Query Execution Start at 1531127230606

- Dataframe :: 855ms

- ResultSet :: 0ms

Query Execution End at 1531127231462

Total Time :: 861ms

**\* Block Range of :: 1000 Blocks**

Query Execution Start at 1531127231466

- Dataframe :: 10987ms

- ResultSet :: 0ms

Query Execution End at 1531127242454

Total Time :: 10992ms

**\* Block Range of :: 3000 Blocks**

Query Execution Start at 1531127242458

- Dataframe :: 5058ms

- ResultSet :: 0ms

Query Execution End at 1531127247519

Total Time :: 5065ms

**\* Block Range of :: 20000 Blocks**

Query Execution Start at 1531127247524

- Dataframe :: 51513ms

- ResultSet :: 0ms

Query Execution End at 1531127299364

Total Time :: 51845ms

**3rd Iteration**

**\* Block Range of :: 1 Blocks**

Query Execution Start at 1531127404732

- Dataframe :: 23ms

- ResultSet :: 0ms

Query Execution End at 1531127404756

Total Time :: 27ms

**\* Block Range of :: 100 Blocks**

Query Execution Start at 1531127404761

- Dataframe :: 766ms

- ResultSet :: 0ms

Query Execution End at 1531127405527

Total Time :: 771ms

**\* Block Range of :: 200 Blocks**

Query Execution Start at 1531127405535

- Dataframe :: 342ms

- ResultSet :: 0ms

Query Execution End at 1531127405877

Total Time :: 350ms

**\* Block Range of :: 500 Blocks**

Query Execution Start at 1531127405883

- Dataframe :: 863ms

- ResultSet :: 1ms

Query Execution End at 1531127406747

Total Time :: 869ms

**\* Block Range of :: 1000 Blocks**

Query Execution Start at 1531127406754

- Dataframe :: 5999ms

- ResultSet :: 0ms

Query Execution End at 1531127412754

Total Time :: 6007ms

**\* Block Range of :: 3000 Blocks**

Query Execution Start at 1531127412762

- Dataframe :: 6976ms

- ResultSet :: 0ms

Query Execution End at 1531127419740

Total Time :: 6986ms

**\* Block Range of :: 20000 Blocks**

Query Execution Start at 1531127419748

- Dataframe :: 41289ms

- ResultSet :: 0ms

Query Execution End at 1531127461048

Total Time :: 41308ms

**Test 2**

**Condition**

* Select Query with range where clause and Order by Clause

**Test Results**

**1st Iteration**

**\* Block Range of :: 1 Blocks**

Query Execution Start at 1531126901595

- Dataframe :: 62ms

- order by :: 2ms

- ResultSet :: 2ms

Query Execution End at 1531126901662

Total Time :: 236ms

**\* Block Range of :: 100 Blocks**

Query Execution Start at 1531126901678

- Dataframe :: 264ms

- order by :: 3ms

- ResultSet :: 0ms

Query Execution End at 1531126901946

Total Time :: 283ms

**\* Block Range of :: 200 Blocks**

Query Execution Start at 1531126901955

- Dataframe :: 470ms

- order by :: 3ms

- ResultSet :: 0ms

Query Execution End at 1531126902430

Total Time :: 484ms

**\* Block Range of :: 500 Blocks**

Query Execution Start at 1531126902439

- Dataframe :: 697ms

- order by :: 6ms

- ResultSet :: 0ms

Query Execution End at 1531126903146

Total Time :: 716ms

**\* Block Range of :: 1000 Blocks**

Query Execution Start at 1531126903154

- Dataframe :: 53964ms

- order by :: 8ms

- ResultSet :: 0ms

Query Execution End at 1531126957137

Total Time :: 53991ms

**\* Block Range of :: 3000 Blocks**

Query Execution Start at 1531126957148

- Dataframe :: 8386ms

- order by :: 12ms

- ResultSet :: 1ms

Query Execution End at 1531126965566

Total Time :: 8428ms

**\* Block Range of :: 20000 Blocks**

Query Execution Start at 1531126965575

- Dataframe :: 86804ms

- order by :: 49ms

- ResultSet :: 0ms

Query Execution End at 1531127052896

Total Time :: 87330ms

**2nd Iteration**

**\* Block Range of :: 1 Blocks**

Query Execution Start at 1531127145903

- Dataframe :: 53ms

- order by :: 0ms

- ResultSet :: 0ms

Query Execution End at 1531127145956

Total Time :: 57ms

**\* Block Range of :: 100 Blocks**

Query Execution Start at 1531127145964

- Dataframe :: 305ms

- order by :: 0ms

- ResultSet :: 0ms

Query Execution End at 1531127146270

Total Time :: 313ms

**\* Block Range of :: 200 Blocks**

Query Execution Start at 1531127146277

- Dataframe :: 359ms

- order by :: 1ms

- ResultSet :: 0ms

Query Execution End at 1531127146637

Total Time :: 367ms

**\* Block Range of :: 500 Blocks**

Query Execution Start at 1531127146646

- Dataframe :: 1077ms

- order by :: 1ms

- ResultSet :: 0ms

Query Execution End at 1531127147724

Total Time :: 1087ms

**\* Block Range of :: 1000 Blocks**

Query Execution Start at 1531127147730

- Dataframe :: 1816ms

- order by :: 2ms

- ResultSet :: 0ms

Query Execution End at 1531127149549

Total Time :: 1824ms

**\* Block Range of :: 3000 Blocks**

Query Execution Start at 1531127149556

- Dataframe :: 12435ms

- order by :: 6ms

- ResultSet :: 0ms

Query Execution End at 1531127161999

Total Time :: 12450ms

**\* Block Range of :: 20000 Blocks**

Query Execution Start at 1531127162008

- Dataframe :: 67923ms

- order by :: 34ms

- ResultSet :: 0ms

Query Execution End at 1531127229973

Total Time :: 67973ms

**3rd Iteration**

**\* Block Range of :: 1 Blocks**

Query Execution Start at 1531127361208

- Dataframe :: 31ms

- order by :: 0ms

- ResultSet :: 0ms

Query Execution End at 1531127361239

Total Time :: 35ms

**\* Block Range of :: 100 Blocks**

Query Execution Start at 1531127361244

- Dataframe :: 221ms

- order by :: 0ms

- ResultSet :: 0ms

Query Execution End at 1531127361466

Total Time :: 227ms

**\* Block Range of :: 200 Blocks**

Query Execution Start at 1531127361471

- Dataframe :: 286ms

- order by :: 0ms

- ResultSet :: 0ms

Query Execution End at 1531127361758

Total Time :: 291ms

**\* Block Range of :: 500 Blocks**

Query Execution Start at 1531127361764

- Dataframe :: 975ms

- order by :: 0ms

- ResultSet :: 0ms

Query Execution End at 1531127362739

Total Time :: 981ms

**\* Block Range of :: 1000 Blocks**

Query Execution Start at 1531127362744

- Dataframe :: 1864ms

- order by :: 1ms

- ResultSet :: 0ms

Query Execution End at 1531127364610

Total Time :: 1871ms

**\* Block Range of :: 3000 Blocks**

Query Execution Start at 1531127364615

- Dataframe :: 5050ms

- order by :: 5ms

- ResultSet :: 0ms

Query Execution End at 1531127369671

Total Time :: 5061ms

**\* Block Range of :: 20000 Blocks**

Query Execution Start at 1531127369676

- Dataframe :: 34808ms

- order by :: 237ms

- ResultSet :: 0ms

Query Execution End at 1531127404729

Total Time :: 35058ms

**Test 3**

**Condition**

* Select Query with range where clause and Group by Clause

**Test Results**

**1st Iteration**

**\* Block Range of :: 1 Blocks**

Query Execution Start at 1531127096034

- Dataframe :: 45ms

- group by :: 5ms

- order by :: 0ms

- ResultSet :: 0ms

Query Execution End at 1531127096085

Total Time :: 62ms

**\* Block Range of :: 100 Blocks**

Query Execution Start at 1531127096092

- Dataframe :: 699ms

- group by :: 5ms

- order by :: 0ms

- ResultSet :: 0ms

Query Execution End at 1531127096796

Total Time :: 711ms

**\* Block Range of :: 200 Blocks**

Query Execution Start at 1531127096803

- Dataframe :: 318ms

- group by :: 1ms

- order by :: 0ms

- ResultSet :: 0ms

Query Execution End at 1531127097123

Total Time :: 327ms

**\* Block Range of :: 500 Blocks**

Query Execution Start at 1531127097133

- Dataframe :: 6708ms

- group by :: 18ms

- order by :: 0ms

- ResultSet :: 0ms

Query Execution End at 1531127103859

Total Time :: 6736ms

**\* Block Range of :: 1000 Blocks**

Query Execution Start at 1531127103866

- Dataframe :: 2268ms

- group by :: 6ms

- order by :: 0ms

- ResultSet :: 0ms

Query Execution End at 1531127106140

Total Time :: 2281ms

**\* Block Range of :: 3000 Blocks**

Query Execution Start at 1531127106151

- Dataframe :: 4440ms

- group by :: 7ms

- order by :: 0ms

- ResultSet :: 0ms

Query Execution End at 1531127110599

Total Time :: 4459ms

**\* Block Range of :: 20000 Blocks**

Query Execution Start at 1531127110611

- Dataframe :: 35246ms

- group by :: 42ms

- order by :: 0ms

- ResultSet :: 0ms

Query Execution End at 1531127145899

Total Time :: 35300ms

**2nd Iteration**

**\* Block Range of :: 1 Blocks**

Query Execution Start at 1531127299369

- ResultSet :: 0ms

Query Execution End at 1531127299392

Total Time :: 28ms

**\* Block Range of :: 100 Blocks**

Query Execution Start at 1531127299399

- Dataframe :: 368ms

- group by :: 1ms

- order by :: 0ms

- ResultSet :: 0ms

Query Execution End at 1531127299768

Total Time :: 375ms

**\* Block Range of :: 200 Blocks**

Query Execution Start at 1531127299780

- Dataframe :: 332ms

- group by :: 0ms

- order by :: 0ms

- ResultSet :: 1ms

Query Execution End at 1531127300114

Total Time :: 346ms

**\* Block Range of :: 500 Blocks**

Query Execution Start at 1531127300124

- Dataframe :: 1030ms

- group by :: 2ms

- order by :: 0ms

- ResultSet :: 0ms

Query Execution End at 1531127301156

Total Time :: 1042ms

**\* Block Range of :: 1000 Blocks**

Query Execution Start at 1531127301168

- Dataframe :: 5424ms

- group by :: 7ms

- order by :: 0ms

- ResultSet :: 0ms

Query Execution End at 1531127306599

Total Time :: 5442ms

**\* Block Range of :: 3000 Blocks**

Query Execution Start at 1531127306606

- Dataframe :: 20444ms

- group by :: 19ms

- order by :: 0ms

- ResultSet :: 0ms

Query Execution End at 1531127327069

Total Time :: 20470ms

**\* Block Range of :: 20000 Blocks**

Query Execution Start at 1531127327076

- Dataframe :: 34103ms

- group by :: 25ms

- order by :: 0ms

- ResultSet :: 0ms

Query Execution End at 1531127361204

Total Time :: 34135ms

**3rd Iteration**

**\* Block Range of :: 1 Blocks**

Query Execution Start at 1531127461055

- Dataframe :: 56ms

- group by :: 0ms

- order by :: 0ms

- ResultSet :: 0ms

Query Execution End at 1531127461111

Total Time :: 63ms

**\* Block Range of :: 100 Blocks**

Query Execution Start at 1531127461123

- Dataframe :: 554ms

- group by :: 0ms

- order by :: 0ms

- ResultSet :: 0ms

Query Execution End at 1531127461677

Total Time :: 566ms

**\* Block Range of :: 200 Blocks**

Query Execution Start at 1531127461689

- Dataframe :: 911ms

- group by :: 1ms

- order by :: 0ms

- ResultSet :: 0ms

Query Execution End at 1531127462601

Total Time :: 923ms

**\* Block Range of :: 500 Blocks**

Query Execution Start at 1531127462614

- Dataframe :: 861ms

- group by :: 1ms

- order by :: 0ms

- ResultSet :: 0ms

Query Execution End at 1531127463476

Total Time :: 874ms

**\* Block Range of :: 1000 Blocks**

Query Execution Start at 1531127463488

- Dataframe :: 1730ms

- group by :: 1ms

- order by :: 0ms

- ResultSet :: 0ms

Query Execution End at 1531127465219

Total Time :: 1743ms

**\* Block Range of :: 3000 Blocks**

Query Execution Start at 1531127465233

- Dataframe :: 5137ms

- group by :: 3ms

- order by :: 0ms

- ResultSet :: 0ms

Query Execution End at 1531127470373

Total Time :: 5153ms

**\* Block Range of :: 20000 Blocks**

Query Execution Start at 1531127470385

- Dataframe :: 36779ms

- group by :: 17ms

- order by :: 0ms

- ResultSet :: 0ms

Query Execution End at 1531127507181

Total Time :: 36807ms