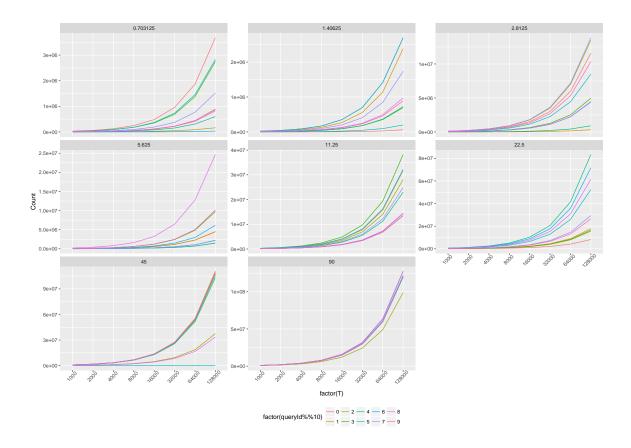
Results

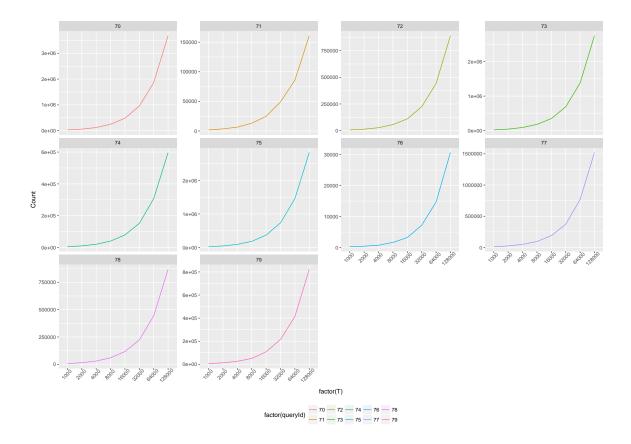
October 16, 2017

Contents

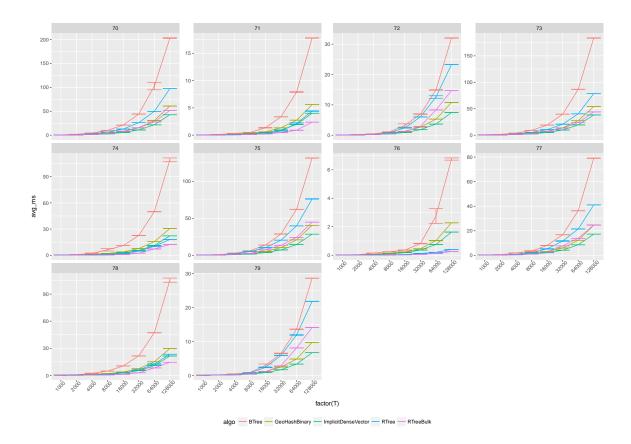
1	Plot: change of query count with size of T.	1
2	Plot: Scan Query Time by T facet by queryId	3
3	Plot: Scan query time by Query Count faceted by QueryId	4
4	Plot: Scan query throughput by Query Count faceted by QueryId	5

1 Plot: change of query count with size of T.



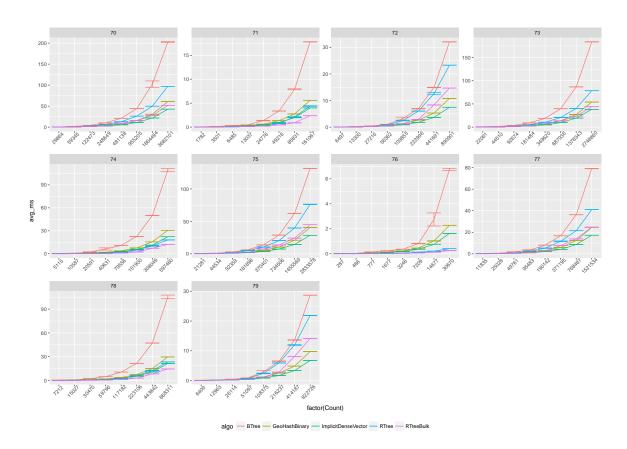


2 Plot: Scan Query Time by T facet by queryId



3 Plot: Scan query time by Query Count faceted by QueryId

```
dfAvg %>%
    ungroup() %>%
    filter(bench == "apply_at_region") %>%
    select(queryId,algo,Count,T) %>%
    left_join(
        filter(ungroup(dfAvg), bench == "scan_at_region") %>% select(-Count)
   ) -> dfCount
dfCount
Joining, by = c("queryId", "algo", "T")
# A tibble: 3,200 x 9
   queryId algo
                     Count
                                 Τ
                                            bench Refine queryWidth
                                                                                        stdv
                                                                         avg_ms
     <int> <chr>
                                                                                       <dbl>
                     <int>
                                                    <int>
                                                               <dbl>
                                                                          <dbl>
                            <int>
                                            <chr>
         0 BTree
                    924827
                              1000 scan_at_region
                                                       29
                                                                  90
                                                                       17.44709 0.03102001
 2
         0 BTree
                   1855890
                                                       29
                                                                       36.30205
                                                                                 0.03723738
                              2000 scan_at_region
 3
         0 BTree
                   3706387
                                                       33
                                                                  90
                                                                       74.14725
                                                                                 0.02328167
                              4000 scan_at_region
 4
         0 BTree
                   7417949
                                                       45
                                                                  90
                                                                      151.37550
                                                                                 0.03572192
                              8000 scan_at_region
 5
         0 BTree
                  14876686
                             16000 scan_at_region
                                                       52
                                                                  90
                                                                      307.56140
                                                                                 0.09391154
 6
                  29764961
                                                       64
         0 BTree
                             32000 scan_at_region
                                                                  90
                                                                      691.87770
                                                                                 0.59023687
 7
                                                       89
         0 BTree
                  59715461
                             64000 scan_at_region
                                                                  90 1679.86400
                                                                                 1.45107010
         0 BTree 119931295 128000 scan_at_region
 8
                                                      118
                                                                  90 3746.40000 14.13264542
 9
         1 BTree
                    929918
                              1000 scan_at_region
                                                       46
                                                                  90
                                                                       17.40384
                                                                                 0.03499172
10
         1 BTree
                   1866101
                              2000 scan_at_region
                                                       46
                                                                  90
                                                                       36.21215 0.03681069
# ... with 3,190 more rows
```



4 Plot: Scan query throughput by Query Count faceted by QueryId

