run 5 spawn_updates 100000000 1000000 1000000 60000000 4000 MyMacbookAir:cpp hkl120s !! //driver test/spawn1.jitd

MyMacbookAir:cpp hkli20\$!!
//driver test/spawn1.jitd
Now using policy: Cracker[pushdown balance inline]
Start Updates [10000000 - 60000000] by 1000000; every 4000 ms for 60000ms
Start[test/scan_for_1_min.jitd]
Scanning for 2000 s in [0,100000000] -> 1000 keys/read
Random Scan: 183412 scans over 2.00004 s
Rate: 91704.3 scans/sec
Scanning for 2000 s in [0,100000000] -> 1000 keys/read
Random Scan: 211124 scans over 2 s
Rate: 105562 scans/sec
Scanning for 2000 s in [0,100000000] -> 1000 keys/read
Random Scan: 61604 scans over 2 s
Rate: 30802 scans/sec
Scanning for 2000 s in [0,100000000] -> 1000 keys/read
Random Scan: 146386 scans over 2.00001 s
Rate: 73192.7 scans/sec
Scanning for 2000 s in [0,10000000] -> 1000 keys/read
Random Scan: 26116 scans over 2.00001 s
Rate: 13057.9 scans/sec
Scanning for 2000 s in [0,10000000] -> 1000 keys/read
Random Scan: 26116 scans over 2.00001 s
Rate: 13057.9 scans/sec
SROOT [Cracker[pushdown balance inline]; 3000000 elements]
BTree[42447989]
BTree[176359]
SortedArray[275336 elements] Biree[9176359]
SortedArray[275336 elements]
SortedArray[1000000 elements]
BTree[59140037]
SortedArray[500096 elements]
BTree[92413646]
SortedArray[1000000 elements] SortedArray[224568 elements]
Scanning for 2000 s in [0,1000000000 -> 1000 keys/read
Random Scan: 91388 scans over 2 s
Rate: 45693.9 scans/sec Rate: 45693.9 scans/sec
Scanning for 2000 s in [0,100000000) -> 1000 keys/read
Random Scan: 9275 scans over 2.08737 s
Rate: 4443.39 scans/sec
Scanning for 2000 s in [0,100000000) -> 1000 keys/read
Random Scan: 76449 scans over 2.00002 s
Rate: 38224.1 scans/sec
Scanning for 2000 s in [0,100000000) -> 1000 keys/read
Random Scan: 5274 scans over 2.03459 s
Rate: 2592.16 scans/sec
Scanning for 2000 s in [0,100000000) -> 1000 keys/read
Random Scan: 57711 scans over 2.00001 s
Rate: 28855.3 scans/sec
gROOT [Cracker[pushdown balance inline]; 5000000 elements]
BTree[42447989] BTree[42447989] BTree[29171444] BTree[9176359] SortedArray[459584 elements] SortedArray[1000000 elements] SortedArray[664271 elements] BTree[79079651] SortedArray[664271 elements]

BTree[79079651]

BTree[59140037]

SortedArray[834433 elements]

SortedArray[10000000 elements]

BTree[84076730]

SortedArray[7250227 elements]

SortedArray[791485 elements]

SortedArray[791485 elements]

Scanning for 2000 s in [0,100000000) -> 1000 keys/read
Random Scan: 3370 scans over 2.04865 s
Rate: 1644.99 scans/sec
Scanning for 2000 s in [0,100000000) -> 1000 keys/read
Random Scan: 37580 scans over 2.00002 s
Rate: 18789.8 scans/sec

Scanning for 2000 s in [0,100000000) -> 1000 keys/read
Random Scan: 294 scans over 2.02933 s
Rate: 144.876 scans/sec
Scanning for 2000 s in [0,100000000) -> 1000 keys/read
Random Scan: 27562 scans over 2.00001 s
Rate: 13780.9 scans/sec
Scanning for 2000 s in [0,100000000) -> 1000 keys/read
Random Scan: 27562 scans over 2.00001 s
Rate: 13780.9 scans/sec
Scanning for 2000 s in [0,100000000) -> 1000 keys/read
Random Scan: 428 scans over 2.25097 s
Rate: 190.14 scans/sec
gROOT [Cracker[pushdown balance inline]; 8000000 elements]
BTree[42447989]
BTree[791714441] BTree[42447989] Tree[42447989]

BTree[29171444]

BTree[9176359]

SortedArray[734916 elements]

BTree[23444564]

BTree[21660085]

SortedArray[1000000 elements]

SortedArray[12557 elements]

SortedArray[4258486 elements] Concat SortedArray[930557 elements] Array[133192 elements] Free[79079651] BTree[59140037] |ree[59140037]
BTree[5740852]
BTree[54956908]
SortedArray[1000000 elements]
SortedArray[142880 elements]
SortedArray[193087 elements]
BTree[71624365]
SortedArray[10000000 elements] SortedArray[142956 elements]
SortedArray[454589 elements] BTree[84076730] Concat SortedArray[350126 elements] SortedArray[49872 elements] BTree[98416301] Concat SortedArray[1000000 elements] Array[142705 elements] Concat SortedArray[108554 elements] | SortedArray[15523 elements] | Scanning for 2000 s in [0,100000000) -> 1000 keys/read | Random Scan: 13093 scans over 2.21204 s Rate: 5918.98 scans/sec Scanning for 2000 s in [0,100000000) -> 1000 keys/read Random Scan: 16 scans over 2.20241 s Rate: 7.26478 scans/sec

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Scanning for 2000 s in [0,100000000) -> 1000 keys/read Random Scan: 9388 scans over 2.18892 s Rate: 4288.88 scans/sec Scanning for 2000 s in [0,100000000) -> 1000 keys/read Random Scan: 40 scans over 2.08881 s Rate: 19.1497 scans/sec Scanning for 2000 s in [0,100000000) -> 1000 keys/read Random Scan: 8251 scans over 2.03395 s Rate: 4056.64 scans/sec gROOT [Cracker[ pushdown balance inline ]; 11000000 elements] BTree[42447989] BTree[19167465]
               BTree[19167465]
                    BTree[9176359]
                            Concat
SortedArray[918863 elements]
Array[91657 elements]
                            Concat
                                 SortedArray[1000000 elements]
SortedArray[99405 elements]
                     BTree[29171444]
                            Concat
SortedArray[110866 elements]
                            Array[10978 elements]
SortedArray[978660 elements]
BTree[39143418]
                                  Concat
SortedArray[1000000 elements]
SortedArray[100162 elements]
                                  Concat
               Concat
SortedArray[330157 elements]
Array[33016 elements]
BTree[79079651]
                      BTree[59140037]
                            Concat
                                  BTree[52446192]
                                  SortedArray[1000000 elements]
SortedArray[670534 elements]
Array[167691 elements]
                            BTree[69113325]
                                  Concat
SortedArray[1000000 elements]
                                         SortedArray[99994 elements]
                                  Concat
                                        SortedArray[996918 elements]
                                        Array[99495 elements]
                     BTree[94059232]
                             Concat
BTree[84076730]
                                  SortedArray[499241 elements]
SortedArray[1000000 elements]
Array[150416 elements]
                            Concat
Concat
SortedArray[583614 elements]
SortedArray[58333 elements]
Scanning for 2000 s in [0,1000000000) -> 1000 keys/read
Random Scan: 14 scans over 2.07132 s
Rate: 6.75896 scans/sec
Scanning for 2000 s in [0,100000000) -> 1000 keys/read
Random Scan: 4215 scans over 2.02298 s
Rate: 2083.56 scans/sec
Scanning for 2000 s in [0,100000000) -> 1000 keys/read
Random Scan: 17 scans over 2.22198 s
Rate: 7.65084 scans/sec
Scanning for 2000 s in [0,100000000) -> 1000 keys/read
Random Scan: 62 scans over 2.101851 s
Rate: 30.7157 scans/sec
Scanning for 2000 s in [0,100000000) -> 1000 keys/read
Random Scan: 20 scans over 2.10105 s
Rate: 9.51906 scans/sec
gROOT [Cracker[ pushdown balance inline ]; 13000000 elements]
BTree[19167465]
BTree[19167465]
BTree[19167465]
BTree[19167465]
                                   SortedArray[583614 elements]
               BTree[19167465]
                    BTree[9176359]
BTree[7689912]
                    Biree[7689912]
SortedArray[1000000 elements]
SortedArray[193620 elements]
Biree[16857728]
SortedArray[1000000 elements]
SortedArray[300073 elements]
Biree[20272078]
Congat
                                  Concat
                                        Concat
                                 Concat

SortedArray[121844 elements]

SortedArray[10964 elements]

Array[11173 elements]

BTree[27968936]

SortedArray[1000000 elements]

BTree[28611713]

SortedArray[83392 elements]

Concat
                           SortedArrdy[63532 elements]
Concat
SortedArray[67544 elements]
Array[5556 elements]
BTree[36847256]
SortedArray[1000000 elements]
              SortedArray[1000000 elements]
SortedArray[729113 elements]
BTree[79079651]
BTree[59140037]
BTree[59138036]
SortedArray[1000000 elements]
SortedArray[182069 elements]
SortedArray[991020 elements]
BTree[69113325]
BTree[68080865]
SortedArray[1000000 elements]
                                  SortedArray[1000000 elements]
SortedArray[300004 elements]
BTree[77446758]
                                        Concat
                                               SortedArray[1000000 elements]
SortedArray[83790 elements]
                                        Concat
                     SortedArray[195681 elements]
Array[16471 elements]
BTree[94059232]
```

```
BTree[84076730]
                              SortedArray[599581 elements]
SortedArray[49910 elements]
                          Concat
BTree[92397936]
                              SortedArray[1000000 elements]
SortedArray[199748 elements]
Array[99823 elements]
Array[99823 elements]
Concat
SortedArray[700246 elements]
Array[58378 elements]
Scanning for 2000 s in [0,100000000) -> 1000 keys/read
Random Scan: 23 scans over 2.00393 s
Rate: 11.4774 scans/sec
Scanning for 2000 s in [0,100000000) -> 1000 keys/read
Random Scan: 22 scans over 2.09784 s
Rate: 10.487 scans/sec
Scanning for 2000 s in [0,100000000) -> 1000 keys/read
Random Scan: 23 scans over 2.02541 s
Rate: 11.3557 scans/sec
Scanning for 2000 s in [0,100000000) -> 1000 keys/read
Random Scan: 13 scans over 2.29275 s
Rate: 5.67006 scans/sec
                     Concat
Random Scan: 13 scans over 2.29275 s
Rate: 5.67006 scans/sec
Scanning for 2000 s in [0,100000000) -> 1000 keys/read
Random Scan: 13 scans over 2.14539 s
Rate: 6.05952 scans/sec
gROOT [Cracker[ pushdown balance inline ]; 16000000 elements]
BTree[42447989]
          BTree[19167465]
               BTree[9176359]
BTree[6666748]
BTree[6249973]
                              SortedArray[1000000 elements]
SortedArray[66696 elements]
                          Concat
                     SortedArray[376921 elements]
Array[25070 elements]
BTree[15832499]
                          Concat
                               SortedArray[1000000 elements]
SortedArray[66178 elements]
                          Concat
                              BTree[16307930]
               Biree[16307930]

SortedArray[71409 elements]

SortedArray[428531 elements]

Array[33286 elements]

BTree[29171444]

Concort
                    Concat
BTree[27968936]
BTree[20272078]
Concat
                                        Concat
                                             Concat
                                                  Concat
                                                       SortedArray[121844 elements]
                                             SortedArray[110964 elements]
Array[11173 elements]
Array[11094 elements]
                                   Array[11049 elements]
BTree[27414257]
BTree[26937362]
                                             SortedArray[1000000 elements]
SortedArray[71621 elements]
                                             SortedArray[77271 elements]
SortedArray[5491 elements]
                                    Concat
                    Concat

BTree[28611713]

SortedArray[83392 elements]

Concat

SortedArray[67544 elements]

Array[5556 elements]

Array[19633 elements]

Array[11834 elements]

BTree[36306673]

BTree[35831885]

Concat
                              Concat
                                   SortedArray[1000000 elements]
SortedArray[66559 elements]
                               Concat
                                   SortedArray[71717 elements]
SortedArray[4725 elements]
                          Concat
                              Concat
          BTree[51535325]
                         BTree[49583748]
Concat
BTree[49109020]
                                   SortedArray[1000000 elements]
SortedArray[71273 elements]
SortedArray[71504 elements]
                               Concat
                                   oncat
Concat
BTree[50138036]
SortedArray[76920 elements]
Concat
SortedArray[182069 elements]
Array[13919 elements]
                                   Array[19676 elements]
SortedArray[19580 elements]
                          Concat
                               BTree[58664212]
                                   Concat
SortedArray[1000000 elements]
                                         SortedArray[71645 elements]
                                   Concat
SortedArray[67019 elements]
Array[4848 elements]
```

```
SortedArray[75965 elements]
BTree[69113325]
                                                             BTree[66258235]
                                                                       ree[66258235]
BTree[65785426]
Concat
    SortedArray[1000000 elements]
    SortedArray[66780 elements]
                                                                                   Concat
SortedArray[70982 elements]
Array[4860 elements]
                                                                       Concat
                                                             SortedArray[400078 elements]
SortedArray[28855 elements]
Aray[28480 elements]
BTree[75775896]
                                                                         Concat
                                                                                   SortedArray[1000000 elements]
SortedArray[66856 elements]
                                                                       Concat
BTree[76254391]
SortedArray[71841 elements]
BTree[76805381]
                                                                                                        Concat
SortedArray[76910 elements]
SortedArray[5445 elements]
                                                                                                         Concat
BTree[77446758]
                                                                                                                              Concat

SortedArray[83790 elements]
Array[6433 elements]
Concat
Concat
                                    Concat
SortedArray[195681 elements]
SortedArray[16471 elements]
SortedArray[16328 elements]
Array[22800 elements]

BTree[94059232]
BTree[84076730]
SortedArray[799227 elements]
Concat
BTree[91205500]
Concat
Concat
| Soliteral | Street 
                                      BTree[9176359]
                                                 BTree[6249973]
SortedArray[1000000 elements]
                                                  SortedArray[468687 elements]
BTree[15419551]
SortedArray[1000000 elements]
SortedArray[599404 elements]
                                      BTree[29171444]
BTree[26520214]
BTree[20272078]
                                                 SortedArray[176964 elements]
SortedArray[1900000 elements]
SortedArray[423819 elements]
BTree[36306673]
                           BTree[351300073]

BTree[35415905]

SortedArray[1000000 elements]

SortedArray[143001 elements]

SortedArray[985124 elements]

BTree[79079651]

BTree[59140037]
                                                BTree[51535325]
                                                            SortedArray[1000000 elements]
SortedArray[454941 elements]
                                                SortedArray[454941 elements]
BTree[57773889]
SortedArray[1000000 elements]
SortedArray[219477 elements]
BTree[65370000]
SortedArray[1000000 elements]
SortedArray[600035 elements]
BTree[75358931]
SortedArray[1000000 elements]
SortedArray[1000000 elements]
TortedArray[595487 elements]
Tree[74059232]
   SortedArray[595487 elements]

BTree[94059232]

BTree[84076730]

SortedArray[799227 elements]

BTree[93088445]

SortedArray[1000000 elements]

SortedArray[599673 elements]

SortedArray[934161 elements]

Scanning for 2000 s in [0,1000000000) -> 1000 keys/read
Random Scan: 27316 scans over 2.00005 s

Rate: 13657.7 scans/sec
```

```
Scanning for 2000 s in [0,100000000) -> 1000 keys/read Random Scan: 27218 scans over 2.00005 s Rate: 13608.7 scans/sec Scanning for 2000 s in [0,100000000) -> 1000 keys/read Random Scan: 27530 scans over 2.00002 s Rate: 13764.8 scans/sec Scanning for 2000 s in [0,100000000) -> 1000 keys/read Random Scan: 26940 scans over 2.00003 s Rate: 13469.8 scans/sec Scanning for 2000 s in [0,100000000) -> 1000 keys/read Random Scan: 26722 scans over 2.00002 s Rate: 13360.9 scans/sec gROOT [Cracker[ pushdown balance inline ]; 16000000 elements] BTree[19167465] BTree[19167465] BTree[1916359]
                               BTree[9176359]
                                       BTree[29171444]
                                         BTree[26520214]
BTree[20272078]
                                        SortedArray[176964 elements]
SortedArray[1800000 elements]
SortedArray[423819 elements]
BTree[36306673]
                                                BTree[35415905]
SortedArray[1000000 elements]
SortedArray[143001 elements]
SortedArray[985124 elements]
                      BTree[79079651]
BTree[59140037]
                                        BTree[51535325]
                                        BIree[5135326]

BTree[48692297]

SortedArray[1000000 elements]

SortedArray[454941 elements]

BTree[57773889]

SortedArray[1000000 elements]

SortedArray[219477 elements]

BTree[69113325]
                                                  BTree[65370000]
SortedArray[1000000 elements]
SortedArray[600035 elements]
                                                  BTree[75358931]
SortedArray[1000000 elements]
SortedArray[595487 elements]
SortedArray[595487 elements]

BTree[94059232]

BTree[84076730]

SortedArray[799227 elements]

BTree[90308445]

SortedArray[1000000 elements]

SortedArray[934161 elements]

Scanning for 2000 s in [0,1000000000) -> 1000 keys/read Random Scan: 26892 scans over 2.00002 s

Rate: 13445.9 scans/sec

Scanning for 2000 s in [0,100000000) -> 1000 keys/read Random Scan: 26652 scans over 2.00001 s

Rate: 13325.9 scans/sec

Scanning for 2000 s in [0,100000000) -> 1000 keys/read Random Scan: 26565 scans over 2.00001 s

Rate: 13282.4 scans/sec

Scanning for 2000 s in [0,100000000) -> 1000 keys/read Random Scan: 26565 scans over 2.00001 s

Rate: 13282.4 scans/sec

Scanning for 2000 s in [0,100000000) -> 1000 keys/read Random Scan: 26415 scans over 2.00004 s

Rate: 13477.3 scans/sec

Scanning for 2000 s in [0,100000000) -> 1000 keys/read Random Scan: 26415 scans over 2.00002 s

Rate: 13207.4 scans/sec

SROTE [Fushdown balance inline]; 16000000 elements]

BTree[19167465]

BTree[19167465]

BTree[19167465]

BTree[6249973]

SortedArray[1000000 elements]
                               SortedArray[1000000 elements]
SortedArray[468687 elements]
BTree[15419551]
SortedArray[1000000 elements]
SortedArray[599404 elements]
BTree[29171444]
                                         BTree[26520214]
                                                 SortedArray[176964 elements]
SortedArray[1000000 elements]
                                                 SortedArray[423819 elements]
Tree[36306673]
BTree[35415905]
                      SortedArray[1000000 elements]
SortedArray[143001 elements]
SortedArray[985124 elements]
BTree[79079651]
                               BTree[79079651]
BTree[59140037]
BTree[51535325]
BTree[48692297]
                                         SortedArroy[1000000 elements]
SortedArroy[454941 elements]
BTree[57773989]
SortedArroy[1000000 elements]
SortedArroy[219477 elements]
BTree[69113325]
                                                  BTree[65370000]
                                                  SortedArray[1000000 elements]
SortedArray[600035 elements]
BTree[75358931]
                               SortedArray[1000000 elements]
SortedArray[595487 elements]
BTree[94059232]
  BTree[94059232]

BTree[84076730]

SortedArray[799227 elements]

BTree[930304740]

SortedArray[1000000 elements]

SortedArray[599673 elements]

SortedArray[334161 elements]

SortedArray[334161 elements]

Scanning for 2000 s in [0,100000000] -> 10000 keys/read
```

```
Random Scan: 26424 scans over 2.00003 s
Rate: 13211.8 scans/sec
Rate: 13211.8 scans/sec
Scanning for 2000 s in [0,100000000) -> 1000 keys/read
Random Scan: 26941 scans over 2.00001 s
Rate: 13470.4 scans/sec
Scanning for 2000 s in [0,100000000) -> 1000 keys/read
Random Scan: 26692 scans over 2.00002 s
Rate: 13345.8 scans/sec
Scanning for 2000 s in [0,100000000) -> 1000 keys/read
Random Scan: 26167 scans over 2.00003 s
Rate: 13383.3 scans/sec
Scanning for 2000 s in [0,100000000) -> 1000 keys/read
Random Scan: 26167 scans over 2.00003 s
Rate: 13083.3 scans/sec
Scanning for 2000 s in [0,100000000) -> 1000 keys/read
Random Scan: 25803 scans over 2.00001 s
Rate: 12901.4 scans/sec
gROOT [Cracker[ pushdown balance inline ]; 16000000 elements]
BTree[19167465]
                 BTree[19167465]
BTree[9176359]
                                BTree[6249973]
                                SortedArray[1000000 elements]
SortedArray[468687 elements]
BTree[15419551]
SortedArray[1000000 elements]
                         SortedArray[599404 elements]
BTree[29171444]
BTree[26520214]
                                BIree[20272078]
SortedArray[176964 elements]
SortedArray[1000000 elements]
SortedArray[423819 elements]
BTree[36306673]
BTree[35415905]
                                        SortedArray[1000000 elements]
SortedArray[143001 elements]
SortedArray[985124 elements]
                  BTree[79079651]
                        BTree[59140037]
BTree[51535325]
                                        BTree[48692297]
                                       SortedArray[1000000 elements]
SortedArray[454941 elements]
BTree[57773989]
                                SortedArray[1000000 elements]
SortedArray[219477 elements]
BTree[69113325]
BTres[652780207
                                        BTree[65370000]
                                        SortedArray[1000000 elements]
SortedArray[600035 elements]
BTree[75358931]
                         SortedArray[1000000 elements]
SortedArray[595487 elements]
BTree[94059232]
BTree[84076730]
                                        SortedArray[799227 elements]
BTree[90308445]
SortedArray[1000000 elements]
SortedArray[1000000 elements]
SortedArray[590673 elements]
SortedArray[593673 elements]
SortedArray[934161 elements]
Scanning for 2000 s in [0,100000000) -> 1000 keys/read
Random Scan: 25688 scans over 2.00002 s
Rate: 12843.9 scans/sec
Scanning for 2000 s in [0,100000000) -> 1000 keys/read
Random Scan: 25677 scans over 2.00006 s
Rate: 12838.1 scans/sec
Scanning for 2000 s in [0,100000000) -> 1000 keys/read
Random Scan: 23277 scans over 2.00007 s
Rate: 11638.1 scans/sec
Scanning for 2000 s in [0,10000000) -> 1000 keys/read
Random Scan: 22558 scans over 2.00004 s
Rate: 11278.8 scans/sec
 Rundom Scan: ZZ558 scans over 2.00004 s
Rate: 11278.8 scans/sec
Scanning for 2000 s in [0,100000000) -> 1000 keys/read
Random Scan: Z2371 scans over 2.00004 s
Rate: 11185.3 scans/sec
gROOT [Cracker[ pushdown balance inline ]; 16000000 elements]
BTree[42447989]
BTree[42447989]
                 BTree[19167465]
                       Tree[19167465]

BTree[1746359]

BTree[6249973]

SortedArray[1000000 elements]

SortedArray[468687 elements]

SortedArray[1000000 elements]

SortedArray[1000000 elements]

SortedArray[599404 elements]

BTree[29171444]

BTree[20272078]

SortedArray[176964 elements]
                                        SortedArray[176964 elements]
SortedArray[1000000 elements]
SortedArray[423819 elements]
                                BTree[36306673]
                 BTree[36306673]

BTree[35415905]

SortedArray[1000000 elements]

SortedArray[143001 elements]

SortedArray[985124 elements]

BTree[79079651]

BTree[59140037]
                               BTree[53140037]
BTree[48692297]
SortedArray[1000000 elements]
SortedArray[454941 elements]
BTree[57773989]
SortedArray[1000000 elements]
                                SortedArray[219477 elements]
BTree[69113325]
BTree[65370000]
                                               SortedArray[1000000 elements]
                                        SortedArray[600035 elements]
BTree[75358931]
                                               SortedArray[1000000 elements]
SortedArray[595487 elements]
                        BTree[94059232]
BTree[84076730]
                                        SortedArray[799227 elements]
BTree[90308445]
SortedArray[1000000 elements]
SortedArray[599673 elements]
```

```
SortedArray[934161 elements]
Scanning for 2000 s in [0,100000000) -> 1000 keys/read
Random Scan: 26142 scans over 2.00005 s
Rate: 13070.7 scans/sec
Scanning for 2000 s in [0,100000000) -> 1000 keys/read
Random Scan: 26301 scans over 2.00001 s
Rate: 13150.4 scans/sec
Scanning for 2000 s in [0,100000000] -> 1000 keys/read
Random Scan: 26126 scans over 2.00005 s
Rate: 13062.7 scans/sec
Scanning for 2000 s in [0,100000000] -> 1000 keys/read
Random Scan: 2786 scans over 2.00007 s
Rate: 11892.6 scans/sec
Scanning for 2000 s in [0,100000000] -> 1000 keys/read
Random Scan: 2786 scans over 2.00007 s
Rate: 13533.9 scans/sec
gROOT [Cracker[ pushdown balance inline ]; 16000000 elements]
BTree[19167465]
BTree[19167465]
BTree[19167465]
BTree[191674973]
                               SortedArray[176964 elements]
SortedArray[1800000 elements]
SortedArray[423819 elements]
BTree[36306673]
                        Blree[36306673]

BTree[35415965]

SortedArray[1000000 elements]

SortedArray[143001 elements]

SortedArray[985124 elements]

BTree[79079651]

BTree[59140037]
                                         SortedArray[595487 elements]
BTree[94059232]
BTree[94059237]
SortedArray[799227 elements]
BTree[93038445]
SortedArray[1000000 elements]
SortedArray[599673 elements]
SortedArray[934161 elements]
Time[test/scan_for_1_min.jitd]: 60 s
Time[test/spawn1.jitd]: 122 s
MyMacbookAir:cpp hkl120$
```