## prediction-RandomForest.R

## mamarisg

Wed Jun 1 16:51:08 2016

```
library(randomForest)
## randomForest 4.6-12
## Type rfNews() to see new features/changes/bug fixes.
library(ggplot2)
##
## Attaching package: 'ggplot2'
## The following object is masked from 'package:randomForest':
##
##
                 margin
dirpath <- "~/Doctorate/svm-gpuperf/"</pre>
setwd(paste(dirpath, sep=""))
gpus <- read.table("./R-code/deviceInfo.csv", sep=",", header=T)</pre>
NoGPU <- dim(gpus)[1]
apps <- c("matMul_gpu_uncoalesced", "matMul_gpu", "matMul_gpu_sharedmem_uncoalesced", "matMul_gpu_shared
                         "matrix_sum_normal", "matrix_sum_coalesced",
                         "dotProd", "vectorAdd", "subSeqMax")
# METRICS_3X <- c(
# "Shared.Memory.Replay.Overhead", "Global.Memory.Replay.Overhead", "Instruction.Replay.Overhead",
# "L2. Throughput..L1. Reads.", "L2. Hit. Rate..L1. Reads.", "L2. Read. Transactions", "L2. Write. Transactions"
# "L2.Read.Transactions..L1.read.requests.", "L2.Write.Transactions..L1.write.requests.",
# "Instructions.per.warp",
# "Global.Load.Transactions", "Global.Load.Transactions.Per.Request",
# "Issued.Control.Flow.Instructions", "Executed.Control.Flow.Instructions", "Issued.Load.Store.Instruct
\# "Floating.Point.Operations.Single.Precision.", "Floating.Point.Operations.Single.Precision.Add.","Floating.Point.Operations.Single.Precision.Add.","Floating.Point.Operations.Single.Precision.Add.","Floating.Point.Operations.Single.Precision.Add.","Floating.Point.Operations.Single.Precision.Add.","Floating.Point.Operations.Single.Precision.Add.","Floating.Point.Operations.Single.Precision.Add.","Floating.Point.Operations.Single.Precision.Add.","Floating.Point.Operations.Single.Precision.Add.","Floating.Point.Operations.Single.Precision.Add.","Floating.Point.Operations.Single.Precision.Add.","Floating.Point.Operations.Single.Precision.Add.","Floating.Point.Operations.Single.Precision.Add.","Floating.Point.Operations.Single.Precision.Add.","Floating.Point.Operations.Single.Precision.Add.","Floating.Point.Operation.Single.Precision.
# "Floating.Point.Operations.Single.Precision.FMA.", "FLOP.Efficiency.Peak.Single.",
# "Instructions. Executed", "Instructions. Issued", "Issue. Slots", "Control. Flow. Instructions", "Misc. I
\# EVENTS_3X <- c("l2\_subp0\_total\_read\_sector\_queries", "l2\_subp1\_total\_read\_sector\_queries",
                                                                                                                                                                                                                                         "l2\_sub
                                   "l2_subp3_total_read_sector_queries", "l2_subp0_total_write_sector_queries", "l2_subp1_t
#
                                   "l2_subp2_totat_write_occor---
"gld_inst_8bit", "gld_inst_16bit", "gld_inst_32oit,
"gst_inst_64bit", "gst_inst_64bit",
#
                                   "l2\_subp2\_total\_write\_sector\_queries", \qquad "l2\_subp3\_total\_write\_sector\_queries", \qquad "elapse and the subpset of 
                                                                                                                               "gld\_inst\_32bit", \quad "gld\_inst\_64bit", \quad "gld\_inst\_1
#
                                                                                                                                                                                 "qst_inst_128bit", "threads_laun
#
                                   "sm_cta_launched", "uncached_global_load_transaction", "global_store_transaction",
#
#
                                   "X_{\_}l1\_global\_load\_transactions", "X_{\_}l1\_global\_store\_transactions")
#
```

```
# par3X <- c("Duration", "Achieved.Occupancy", "Executed.IPC", "Global.Store.Transactions.Per.Request",
                           "Device. Memory. Read. Transactions", "L2. Write. Transactions", "warps_launched"
#
                           "Block.X", "Block.Y", "Grid.X", "Grid.Y", "Registers.Per.Thread", "Static.SM
# DataAppGPU30 <- read.csv(file = "./R-code/Datasets/AppGPU30.csv")</pre>
# DataAppGPU35 <- read.csv(file = "./R-code/Datasets/AppGPU35.csv")</pre>
# DataAppGPU50 <- read.csv(file = "./R-code/Datasets/AppGPU50.csv")</pre>
# DataAppGPU52 <- read.csv(file = "./R-code/Datasets/AppGPU52.csv")
Parameters_3x <- c("GpuName", "GpuId", "L2", "Bus", "Memoryclock", "AppName", "AppId", "Input.Size", "Du
                   "Shared.Memory.Load.Transactions.Per.Request", "Shared.Memory.Store.Transactions.P
                   "Global.Load.Transactions.Per.Request", "Global.Store.Transactions.Per.Request",
                   "Shared.Load.Transactions", "Shared.Store.Transactions", "Global.Load.Transactions"
                   "Device.Memory.Read.Transactions", "Device.Memory.Write.Transactions", "L2.Read.Tr
                   "Issued.Control.Flow.Instructions", "Executed.Control.Flow.Instructions", "Issued
                   "Floating.Point.Operations.Single.Precision.", "Floating.Point.Operations.Single.Pre
                   "Issue.Slots", "FP.Instructions.Single.", "Control.Flow.Instructions", "Misc.Instruct
                   "ECC.Transactions", "Eligible.Warps.Per.Active.Cycle", "FLOP.Efficiency.Peak.Single.
                   "threads_launched", "inst_executed", "inst_issued1", "inst_issued2", "gld_inst_32"
Parameters_5x <- c("GpuName", "GpuId", "L2", "Bus", "Memoryclock", "AppName", "AppId", "Input.Size", "Du
                   "Shared.Memory.Load.Transactions.Per.Request", "Shared.Memory.Store.Transactions.P
                   "Global.Load.Transactions.Per.Request", "Global.Store.Transactions.Per.Request",
                   "Shared.Load.Transactions", "Shared.Store.Transactions", "Global.Load.Transactions"
                   "Device.Memory.Read.Transactions", "Device.Memory.Write.Transactions", "L2.Read.Tr
                   "Global.Hit.Rate",
                   "Issued.Control.Flow.Instructions", "Executed.Control.Flow.Instructions",
                   \verb|"Floating.Point.Operations.Single.Precision.", \verb|"Floating.Point.Operations.Single.Precision."|
                   "Issue.Slots", "FP.Instructions.Single.", "Control.Flow.Instructions", "Misc.Instruct
                   "Eligible.Warps.Per.Active.Cycle", "FLOP.Efficiency.Peak.Single.", "fb_subp0_read_sec
                   "inst_executed", "inst_issued1", "inst_issued2", "gld_inst_32bit", "gst_inst_32bit",
# Those parameters are always 0 in CC 3.5 and 5.2
# Local.Memory.Load.Transactions.Per.Request
# Local.Memory.Store.Transactions.Per.Request
# Local.Load.Transactions
# Local.Store.Transactions
# Those parameters are not in CC 5.2 or they are always 0
#
    L2.Read.Transactions..L1.read.requests.
#
     L2. Write. Transactions..L1. write. requests.
#
    \it ECC. Transactions
#
     threads\_launched
#
     gld_request
      qst_request
DataAppGPU30 <- read.csv(file = paste("./R-code/Datasets/AppGPU30.csv", sep = ""))</pre>
DataAppGPU35 <- read.csv(file = paste("./R-code/Datasets/AppGPU35.csv", sep = ""))
DataAppGPU50 <- read.csv(file = paste("./R-code/Datasets/AppGPU50.csv", sep = ""))
DataAppGPU52 <- read.csv(file = paste("./R-code/Datasets/AppGPU52.csv", sep = ""))</pre>
```

"Issued

```
result <- data.frame()</pre>
# write.csv(Data, file = "./R-code/Datasets/CleanData/App-GPU-CC-5X.csv")
for (CC in c(3,5)){
    if (CC == 3){
        DataAppGPU <- rbind(DataAppGPU30[Parameters_3x], DataAppGPU35[Parameters_3x])
        DataAppGPU <- rbind(DataAppGPU50[Parameters_5x], DataAppGPU52[Parameters_5x])</pre>
    for( j in 1:9) {
        Data <- subset(DataAppGPU, AppId == j )</pre>
        Data <- Data[complete.cases(Data),]</pre>
        dim(Data)
        # View(Data)
        # summary(Data)
        # DataAppGPU35 <- DataAppGPU35[sapply(DataAppGPU35,is.numeric)]</pre>
        # DataAppGPU35 <- DataAppGPU35[,-(which(colSums(DataAppGPU35) == 0))]</pre>
        if (j < 5) {
            lowerLimit <- 2048
            uperLimit <- 4096
            blockSize <- 16
        } else if (j >= 5 & j < 7) {
            lowerLimit <- 4096</pre>
             uperLimit <- 5376
            blockSize <- 16
        } else {
             lowerLimit <- 50331648
             uperLimit <- 71303168
             blockSize <- 256
         if (j < 9) {
             trainingSet <- subset(Data, Input.Size <= lowerLimit | Input.Size >= uperLimit | Block.X !=
             testSet <- subset(Data, (Input.Size > lowerLimit & Input.Size < uperLimit) & Block.X == blo
             dim(trainingSet)
             dim(testSet)
         } else {
            trainingSet <- subset(Data, Input.Size <= lowerLimit | Input.Size >= uperLimit)
             testSet <- subset(Data, (Input.Size > lowerLimit & Input.Size < uperLimit))</pre>
        trainingSet$AppName <- NULL</pre>
        trainingSet$GpuName <- NULL</pre>
        trainingSet$GpuId <- NULL</pre>
        # trainingDuration <- trainingSet["Duration"]</pre>
        # trainingSet$Duration <- NULL</pre>
        dim(trainingSet)
        TestDuration <- testSet["Duration"]</pre>
        Size <- testSet["Input.Size"]</pre>
```

```
App <- testSet["AppName"]</pre>
        Gpu <- testSet["GpuName"]</pre>
        Block <- testSet["Block.X"]</pre>
        testSet$AppName <- NULL
        testSet$GpuName <- NULL
        testSet$GpuId <- NULL
        testSet$Duration <- NULL
        dim(testSet)
        fit <- randomForest(trainingSet$Duration ~ ., data = trainingSet,mtry = 2, importance = TRUE, do
        print(fit)
        summary(fit)
        predictions <- predict(fit, testSet)</pre>
        mse <- mean((as.matrix(TestDuration) - predictions)^2)</pre>
        mae <- mean(abs(as.matrix(TestDuration) - predictions))
        mape <- mean(abs(as.matrix(TestDuration) - predictions/predictions))</pre>
        # mpe <- mean(as.matrix(TestDuration) - predictions/predictions)</pre>
        \# smape = mean((abs(as.matrix(predictions) -TestDuration)/ (abs(TestDuration) + abs(prediction))
        Acc <- predictions/TestDuration</pre>
        AccMin <- min(Acc)
        AccMean <- mean(as.matrix(Acc))</pre>
        AccMedian <- median(as.matrix(Acc))</pre>
        AccMax <- max(Acc)
        AccSD <- sd(as.matrix(Acc))</pre>
        Tempresult <- data.frame(Gpu, App, Size, Block, TestDuration, predictions, Acc, AccMin, AccMax,
        result <- rbind(result, Tempresult)</pre>
    }
##
               Out-of-bag
               MSE %Var(y) |
## Tree |
## 100 | 0.06429
                        4.59 |
                        4.66 |
## 200 | 0.06535
  300 | 0.06497
                        4.64 |
  400 l
           0.06462
                        4.61 |
    500 | 0.06568
                        4.69 |
##
##
   randomForest(formula = trainingSet$Duration ~ ., data = trainingSet, mtry = 2, importance = TR
##
                   Type of random forest: regression
##
                         Number of trees: 500
## No. of variables tried at each split: 2
##
##
             Mean of squared residuals: 0.06567631
##
                        % Var explained: 95.31
##
               Out-of-bag
## Tree |
               MSE %Var(y) |
```

```
## 100 | 0.02673
                       4.16 |
##
   200 | 0.02548
                       3.96 L
   300 l
           0.02579
                       4.01 |
           0.02582
   400 l
                       4.01 |
##
##
   500 | 0.02535
                       3.94 |
##
##
   randomForest(formula = trainingSet$Duration ~ ., data = trainingSet,
                                                                             mtry = 2, importance = TR
                  Type of random forest: regression
##
##
                        Number of trees: 500
## No. of variables tried at each split: 2
##
##
             Mean of squared residuals: 0.02534678
                       % Var explained: 96.06
##
##
               Out-of-bag
## Tree |
               MSE %Var(y) |
   100 | 0.05824
                       5.43 |
##
           0.0576
   200 |
                       5.37 |
   300 | 0.05746
                       5.36 I
##
   400 | 0.05824
                       5.43 |
##
   500 | 0.05843
                       5.45 |
##
## Call:
   randomForest(formula = trainingSet$Duration ~ ., data = trainingSet,
                                                                               mtry = 2, importance = TR
##
                  Type of random forest: regression
##
                        Number of trees: 500
## No. of variables tried at each split: 2
##
##
             Mean of squared residuals: 0.05843413
                       % Var explained: 94.55
##
##
               Out-of-bag
## Tree |
               MSE %Var(y) |
                       5.09 I
   100 | 0.02172
   200 I
           0.02085
                       4.89 |
##
   300 | 0.02173
                       5.09 |
   400 | 0.02171
                       5.09 I
##
##
   500 | 0.02152
                       5.04 |
##
## Call:
##
   randomForest(formula = trainingSet$Duration ~ ., data = trainingSet,
                                                                               mtry = 2, importance = TR
                  Type of random forest: regression
##
                        Number of trees: 500
## No. of variables tried at each split: 2
##
             Mean of squared residuals: 0.02151555
##
                       % Var explained: 94.96
##
##
               Out-of-bag
               MSE %Var(y) |
## Tree |
   100 | 5.304e-05
                       10.62 |
   200 | 5.505e-05
##
                       11.02 |
## 300 | 5.497e-05
                       11.01 |
## 400 | 5.464e-05
                       10.94 |
## 500 | 5.509e-05
                       11.03 |
##
```

```
## Call:
  randomForest(formula = trainingSet$Duration ~ ., data = trainingSet,
                                                                               mtry = 2, importance = TR
##
                  Type of random forest: regression
                        Number of trees: 500
##
## No. of variables tried at each split: 2
##
             Mean of squared residuals: 5.508559e-05
##
##
                       % Var explained: 88.97
##
               Out-of-bag
               MSE %Var(y) |
## Tree |
   100 | 1.607e-07
                        4.28
   200 | 1.606e-07
                        4.27 |
##
   300 | 1.645e-07
                        4.38 I
  400 | 1.62e-07
                       4.31 |
## 500 | 1.61e-07
                       4.28 |
##
## Call:
   randomForest(formula = trainingSet$Duration ~ ., data = trainingSet,
                                                                               mtry = 2, importance = TR
                  Type of random forest: regression
##
##
                        Number of trees: 500
## No. of variables tried at each split: 2
##
             Mean of squared residuals: 1.609823e-07
                       % Var explained: 95.72
##
##
               Out-of-bag
## Tree |
               MSE %Var(y) |
   100 | 5.569e-06
                        2.39 |
   200 | 5.59e-06
                       2.40 |
   300 | 5.273e-06
                        2.26 |
  400 | 5.208e-06
                        2.23 |
## 500 | 5.244e-06
                        2.25 l
##
  randomForest(formula = trainingSet$Duration ~ ., data = trainingSet,
                                                                               mtry = 2, importance = TR
##
                  Type of random forest: regression
##
                        Number of trees: 500
## No. of variables tried at each split: 2
##
##
             Mean of squared residuals: 5.24426e-06
                       % Var explained: 97.75
##
               Out-of-bag
               MSE %Var(y) |
## Tree |
   100 | 1.222e-06
                        3.18 l
## 200 | 1.136e-06
                        2.96 |
  300 | 1.119e-06
                        2.91
   400 | 1.088e-06
                        2.83 |
## 500 | 1.118e-06
                        2.91 |
##
   randomForest(formula = trainingSet$Duration ~ ., data = trainingSet,
                                                                               mtry = 2, importance = TR
##
                  Type of random forest: regression
                        Number of trees: 500
## No. of variables tried at each split: 2
##
```

```
##
             Mean of squared residuals: 1.11754e-06
##
                        % Var explained: 97.09
##
               Out-of-bag
               MSE %Var(y) |
## Tree |
##
    100 | 4.182e-05
                        1.96
    200 | 4.08e-05
                        1.91 |
##
    300 | 4.058e-05
                        1.90 l
    400 | 4.013e-05
##
                        1.88
##
    500 | 4.064e-05
                        1.91 l
##
## Call:
    randomForest(formula = trainingSet$Duration ~ ., data = trainingSet,
                                                                                mtry = 2, importance = TR
##
##
                  Type of random forest: regression
                        Number of trees: 500
##
## No. of variables tried at each split: 2
##
##
             Mean of squared residuals: 4.06406e-05
##
                       % Var explained: 98.09
##
               Out-of-bag
##
  Tree |
               MSE %Var(y) |
##
    100 |
             0.129
                      12.87 |
    200 |
            0.1281
                      12.78 |
##
##
    300 |
            0.1275
                      12.72 |
##
    400 l
             0.129
                      12.87 I
##
    500 |
            0.1287
                      12.84 |
##
## Call:
    randomForest(formula = trainingSet$Duration ~ ., data = trainingSet,
##
                                                                                mtry = 2, importance = TR
                  Type of random forest: regression
##
##
                        Number of trees: 500
## No. of variables tried at each split: 2
##
##
             Mean of squared residuals: 0.1287265
##
                       % Var explained: 87.16
##
               Out-of-bag
## Tree |
               MSE %Var(y) |
   100 l
            0.1393
                      10.10
    200 I
            0.1287
                       9.33 |
##
    300 |
            0.1297
                        9.40 |
##
##
    400 |
             0.132
                       9.57 |
##
    500 |
            0.1319
                       9.57 |
##
## Call:
    randomForest(formula = trainingSet$Duration ~ ., data = trainingSet,
                                                                               mtry = 2, importance = TR
##
                  Type of random forest: regression
                         Number of trees: 500
##
## No. of variables tried at each split: 2
##
##
             Mean of squared residuals: 0.13193
##
                       % Var explained: 90.43
##
               Out-of-bag
## Tree |
               MSE %Var(y) |
##
  100 l
            0.1387
                      13.01 |
## 200 |
            0.1392
                      13.04 |
```

```
## 300 |
           0.1381
                      12.95 |
## 400 l
            0.1354
                      12.69 I
  500 l
            0.1355
                      12.70 |
##
## Call:
  randomForest(formula = trainingSet$Duration ~ ., data = trainingSet,
                                                                            mtry = 2, importance = TR
                  Type of random forest: regression
                        Number of trees: 500
##
## No. of variables tried at each split: 2
##
##
             Mean of squared residuals: 0.1354829
##
                       % Var explained: 87.3
##
               Out-of-bag
              MSE %Var(y) |
## Tree |
   100 |
          0.09101
                      11.76 |
   200 |
           0.08726
                      11.27 |
   300 | 0.09009
                      11.64 |
##
  400 | 0.08986
                      11.61 |
  500 | 0.09108
##
                      11.76 l
##
## Call:
  randomForest(formula = trainingSet$Duration ~ ., data = trainingSet,
                                                                            mtry = 2, importance = TR
##
                  Type of random forest: regression
                        Number of trees: 500
##
## No. of variables tried at each split: 2
##
             Mean of squared residuals: 0.0910782
##
                       % Var explained: 88.24
##
               Out-of-bag
## Tree |
              MSE %Var(y) |
  100 | 4.155e-05
                       25.35 I
## 200 | 4.431e-05
                       27.03 I
## 300 | 4.551e-05
                       27.76 |
## 400 | 4.311e-05
                       26.30 |
##
   500 | 4.4e-05
                      26.84 |
##
## randomForest(formula = trainingSet$Duration ~ ., data = trainingSet,
                                                                            mtry = 2, importance = TR
##
                  Type of random forest: regression
                        Number of trees: 500
##
## No. of variables tried at each split: 2
##
##
             Mean of squared residuals: 4.399588e-05
                       % Var explained: 73.16
##
               Out-of-bag
              MSE %Var(y) |
## Tree |
##
  100 | 6.881e-07
                        9.20 |
## 200 | 6.308e-07
                        8.43 |
## 300 | 6.038e-07
                        8.07 |
## 400 | 5.955e-07
                        7.96 |
## 500 | 5.814e-07
                        7.77 |
##
## Call:
## randomForest(formula = trainingSet$Duration ~ ., data = trainingSet, mtry = 2, importance = TR
```

```
##
                  Type of random forest: regression
##
                        Number of trees: 500
## No. of variables tried at each split: 2
##
##
             Mean of squared residuals: 5.814403e-07
                       % Var explained: 92.23
##
##
               Out-of-bag
## Tree |
               MSE %Var(y) |
##
    100 | 2.902e-06
                        4.08 I
##
    200 | 2.778e-06
                        3.91
    300 | 2.764e-06
                        3.89 |
    400 | 2.755e-06
                        3.88 |
##
##
    500 | 2.765e-06
                        3.89 |
##
## Call:
    randomForest(formula = trainingSet$Duration ~ ., data = trainingSet,
                                                                                mtry = 2, importance = TR
##
                  Type of random forest: regression
##
                        Number of trees: 500
## No. of variables tried at each split: 2
##
##
             Mean of squared residuals: 2.765453e-06
##
                       % Var explained: 96.11
##
               Out-of-bag
               MSE %Var(y) |
## Tree |
   100 | 8.408e-07
                        2.61 l
    200 | 7.375e-07
                        2.29 |
    300 | 7.399e-07
                        2.29 |
##
    400 | 7.442e-07
                        2.31
    500 | 7.199e-07
                        2.23 |
##
##
## Call:
##
    randomForest(formula = trainingSet$Duration ~ ., data = trainingSet,
                                                                                mtry = 2, importance = TR
##
                  Type of random forest: regression
                        Number of trees: 500
##
## No. of variables tried at each split: 2
##
##
             Mean of squared residuals: 7.198846e-07
##
                       % Var explained: 97.77
               Out-of-bag
               MSE %Var(y) |
## Tree |
   100 | 3.597e-05
                        6.55
    200 | 3.549e-05
                        6.47 I
##
    300 | 3.386e-05
                        6.17 I
    400 | 3.409e-05
                        6.21
   500 | 3.231e-05
##
                        5.89 |
##
## Call:
    randomForest(formula = trainingSet$Duration ~ ., data = trainingSet,
                                                                                mtry = 2, importance = TR
##
                  Type of random forest: regression
##
                        Number of trees: 500
## No. of variables tried at each split: 2
##
##
             Mean of squared residuals: 3.230744e-05
##
                       % Var explained: 94.11
```

##		GpuName	AppName	Input.Size	Block.X
##	41	GTX-680	matMul_gpu_uncoalesced	2304	16
##	42	GTX-680	matMul_gpu_uncoalesced	2560	16
##	43	GTX-680	${\tt matMul\_gpu\_uncoalesced}$	2816	16
##	1092	Tesla-K40	matMul_gpu_uncoalesced	2304	16
##	2220	Tesla-K20	matMul_gpu_uncoalesced	2304	16
##	3348	${\tt TitanBlack}$	${\tt matMul\_gpu\_uncoalesced}$	2304	16
##	4476	Titan	${\tt matMul\_gpu\_uncoalesced}$	2304	16
##	5604	Quadro	${\tt matMul\_gpu\_uncoalesced}$	2304	16
##	137	GTX-680	matMul_gpu	2304	16
##	138	GTX-680	matMul_gpu	2560	16
##	139	GTX-680	matMul_gpu	2816	16
##	140	GTX-680	matMul_gpu	3072	16
##	141	GTX-680	matMul_gpu	3328	16
##	142	GTX-680	matMul_gpu	3584	16
##	143	GTX-680	matMul_gpu	3840	16
##	1188	Tesla-K40	matMul_gpu	2304	16
##	1189	Tesla-K40	matMul_gpu	2560	16
##	1190	Tesla-K40	matMul_gpu	2816	16
##	1191	Tesla-K40	matMul_gpu	3072	16
##	1192	Tesla-K40	matMul_gpu	3328	16
##	1193	Tesla-K40	matMul_gpu	3584	16
##	1194	Tesla-K40	matMul_gpu	3840	16
##	2316	Tesla-K20	matMul_gpu	2304	16
##	2317	Tesla-K20	matMul_gpu	2560	16
##	2318	Tesla-K20	matMul_gpu	2816	16
##	2319	Tesla-K20	matMul_gpu	3072	16
##	2320	Tesla-K20	matMul_gpu	3328	16
##	2321	Tesla-K20	matMul_gpu	3584	16
##	2322	Tesla-K20	matMul_gpu	3840	16
##	3444	TitanBlack	matMul_gpu	2304	16
##	3445	TitanBlack	matMul_gpu	2560	16
##	3446	TitanBlack	matMul_gpu	2816	16
##	3447	TitanBlack	matMul_gpu	3072	16
##	3448	TitanBlack	matMul_gpu	3328	16
		TitanBlack	matMul_gpu	3584	16
##	3450	TitanBlack	matMul_gpu	3840	16
	4572	Titan	matMul_gpu	2304	16
	4573	Titan	matMul_gpu	2560	16
	4574	Titan	matMul_gpu	2816	16
	4575	Titan	matMul_gpu	3072	16
	4576	Titan	matMul_gpu	3328	16
	4577	Titan	matMul_gpu	3584	16
	4578	Titan	matMul_gpu	3840	16
	5684	Quadro	matMul_gpu	2304	16
	5685	Quadro	matMul_gpu	2560	16
	5686	Quadro	matMul_gpu	2816	16
	5687	Quadro	matMul_gpu	3072	16
	5688	Quadro	matMul_gpu	3328	16
	5689	Quadro	matMul_gpu	3584	16
	5690	Quadro	matMul_gpu	3840	16
##	233	GTX-680	${\tt matMul\_gpu\_sharedmem\_uncoalesced}$	2304	16

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## 234
           GTX-680 matMul_gpu_sharedmem_uncoalesced
                                                             2560
                                                                       16
## 235
           GTX-680 matMul_gpu_sharedmem_uncoalesced
                                                             2816
                                                                       16
## 236
           GTX-680 matMul gpu sharedmem uncoalesced
                                                             3072
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## 237
           GTX-680 matMul_gpu_sharedmem_uncoalesced
                                                             3328
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## 238
           GTX-680 matMul_gpu_sharedmem_uncoalesced
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## 239
           GTX-680 matMul gpu sharedmem uncoalesced
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## 1284
         Tesla-K40 matMul gpu sharedmem uncoalesced
                                                             2304
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         Tesla-K40 matMul_gpu_sharedmem_uncoalesced
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         Tesla-K40 matMul_gpu_sharedmem_uncoalesced
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## 1287
         Tesla-K40 matMul_gpu_sharedmem_uncoalesced
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## 1288
         Tesla-K40 matMul_gpu_sharedmem_uncoalesced
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## 1289
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## 1290
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## 2412
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## 2413
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## 2414
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         Tesla-K20 matMul_gpu_sharedmem_uncoalesced
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## 2416
         Tesla-K20 matMul gpu sharedmem uncoalesced
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## 2417
         Tesla-K20 matMul_gpu_sharedmem_uncoalesced
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## 2418
         Tesla-K20 matMul gpu sharedmem uncoalesced
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                                                                       16
  3540 TitanBlack matMul_gpu_sharedmem_uncoalesced
                                                             2304
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   3541 TitanBlack matMul gpu sharedmem uncoalesced
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## 3542 TitanBlack matMul_gpu_sharedmem_uncoalesced
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                                                             3072
## 3544 TitanBlack matMul_gpu_sharedmem_uncoalesced
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                                                             3328
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## 3546
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## 4668
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## 4669
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## 4670
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             Titan matMul_gpu_sharedmem_uncoalesced
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## 4672
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## 4673
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## 4674
             Titan matMul_gpu_sharedmem_uncoalesced
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## 5764
            Quadro matMul gpu sharedmem uncoalesced
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## 5765
            Quadro matMul_gpu_sharedmem_uncoalesced
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## 5766
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## 5767
            Quadro matMul_gpu_sharedmem_uncoalesced
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## 5768
            Quadro matMul gpu sharedmem uncoalesced
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## 5769
            Quadro matMul_gpu_sharedmem_uncoalesced
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                                                             3584
## 5770
            Quadro matMul gpu sharedmem uncoalesced
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## 329
           GTX-680
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           GTX-680
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## 332
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## 333
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## 334
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## 335
           GTX-680
                                matMul_gpu_sharedmem
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## 1380
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                                matMul_gpu_sharedmem
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  1381
         Tesla-K40
                                matMul_gpu_sharedmem
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##
  1382
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         Tesla-K40
                                                             2816
## 1383
                                matMul_gpu_sharedmem
         Tesla-K40
                                                             3072
                                                                       16
         Tesla-K40
## 1384
                                matMul_gpu_sharedmem
                                                             3328
                                                                       16
                                matMul gpu sharedmem
## 1385
         Tesla-K40
                                                             3584
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	2508	Tesla-K20	matMul_gpu_sharedmem	2304	16
		Tesla-K20	matMul_gpu_sharedmem		
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	2511	Tesla-K20	${ t matMul\_gpu\_sharedmem}$	3072	16
	2512	Tesla-K20	matMul_gpu_sharedmem	3328	16
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##	2514	Tesla-K20	matMul_gpu_sharedmem	3840	16
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##	3640	TitanBlack	matMul_gpu_sharedmem	3328	16
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		TitanBlack	matMul_gpu_sharedmem	3840	16
	4764	Titan	matMul_gpu_sharedmem	2304	16
	4765				
		Titan	matMul_gpu_sharedmem	2560	16
	4766	Titan	matMul_gpu_sharedmem	2816	16
	4767	Titan	matMul_gpu_sharedmem	3072	16
	4768	Titan	${\tt matMul\_gpu\_sharedmem}$	3328	16
##	4769	Titan	${\tt matMul\_gpu\_sharedmem}$	3584	16
##	4770	Titan	matMul_gpu_sharedmem	3840	16
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##	5850	Quadro	matMul_gpu_sharedmem	3840	16
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	436	GTX-680	matrix_sum_normal	5120	16
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	1485	Tesla-K40	matrix_sum_normal	4608	16
	1486	Tesla-K40	matrix_sum_normal	4864	16
##	1487	Tesla-K40	matrix_sum_normal	5120	16
##	2612	Tesla-K20	matrix_sum_normal	4352	16
##	2613	Tesla-K20	matrix_sum_normal	4608	16
##	2614	Tesla-K20	matrix_sum_normal	4864	16
##	2615	Tesla-K20	matrix_sum_normal	5120	16
##	3740	TitanBlack	matrix_sum_normal	4352	16
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	4869	Titan	matrix_sum_normal	4608	16
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			matrix_sum_normal		
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##	5983	Quadro	matrix_sum_normal	4736	16

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	5985	Quadro	matrix_sum_normal	4992	16
	5986	Quadro	matrix_sum_normal	5120	16
	5987	Quadro	matrix_sum_normal	5248	16
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	1581	Tesla-K40	matrix_sum_coalesced	4608	16
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		TitanBlack	matrix_sum_coalesced	4352	16
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		TitanBlack	matrix_sum_coalesced	4864	16
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##	6146	Quadro	matrix_sum_coalesced	5248	16
##	660	GTX-680	dotProd	54525952	256
##	661	GTX-680	dotProd	58720256	256
##	662	GTX-680	dotProd	62914560	256
	663	GTX-680	dotProd	67108864	256
##	1714	Tesla-K40	dotProd	54525952	256
##	1715	Tesla-K40	dotProd	58720256	256
##	1716	Tesla-K40	dotProd	62914560	256
##	1717	Tesla-K40	dotProd	67108864	256
##	2842	Tesla-K20	dotProd	54525952	256
	2843	Tesla-K20	dotProd	58720256	256
	2844	Tesla-K20	dotProd	62914560	256
##	2845	Tesla-K20	dotProd	67108864	256
##	3970	${\tt TitanBlack}$	dotProd	54525952	256
##	3971	${\tt TitanBlack}$	dotProd	58720256	256
##	3972	${\tt TitanBlack}$	dotProd	62914560	256
##	3973	${\tt TitanBlack}$	dotProd	67108864	256
##	5098	Titan	dotProd	54525952	256
##	5099	Titan	dotProd	58720256	256
##	5100	Titan	dotProd	62914560	256
##	5101	Titan	dotProd	67108864	256
##	6288	Quadro	dotProd	54525952	256

## 2062 Tesla-K40 subSeqMax 67108864 128 ## 2128 Tesla-K40 subSeqMax 54525952 128 ## 2129 Tesla-K40 subSeqMax 58720256 128 ## 2130 Tesla-K40 subSeqMax 62914560 128 ## 2131 Tesla-K40 subSeqMax 67108864 128 ## 3187 Tesla-K20 subSeqMax 54525952 128 ## 3188 Tesla-K20 subSeqMax 62914560 128 ## 3189 Tesla-K20 subSeqMax 62914560 128 ## 3190 Tesla-K20 subSeqMax 67108864 128 ## 3256 Tesla-K20 subSeqMax 67108864 128 ## 3257 Tesla-K20 subSeqMax 54525952 128 ## 3258 Tesla-K20 subSeqMax 62914560 128 ## 3259 Tesla-K20 subSeqMax 62914560 128	## 6290 Quadro dotProd 62914560   256   ## 840   Quadro dotProd 67108864   256   ## 840   CTX-680   vectorAdd   54525952   256   ## 841   CTX-680   vectorAdd   55720256   256   ## 842   CTX-680   vectorAdd   62914560   256   ## 843   CTX-680   vectorAdd   62914560   256   ## 843   CTX-680   vectorAdd   67108864   256   ## 1921   Tesla-K40   vectorAdd   56720256   256   ## 1923   Tesla-K40   vectorAdd   56720256   256   ## 1923   Tesla-K40   vectorAdd   62914560   256   ## 1924   Tesla-K40   vectorAdd   67108864   256   ## 3049   Tesla-K20   vectorAdd   56720256   256   ## 3049   Tesla-K20   vectorAdd   56720256   256   ## 3050   Tesla-K20   vectorAdd   56720256   256   ## 3051   Tesla-K20   vectorAdd   56720256   256   ## 3051   Tesla-K20   vectorAdd   56720256   256   ## 4177   TitanBlack   vectorAdd   67108864   256   ## 4177   TitanBlack   vectorAdd   67108864   256   ## 4178   TitanBlack   vectorAdd   67108864   256   ## 4180   TitanBlack   vectorAdd   67108864   256   ## 4180   TitanBlack   vectorAdd   67108864   256   ## 5305   Titan   vectorAdd   67108864   256   ## 5307   Titan   vectorAdd   56720256   256   ## 5307   Titan   vectorAdd   56720256   256   ## 5307   Titan   vectorAdd   56720256   256   ## 6495   Quadro   vectorAdd   67108864   256   ## 6495   Quadro   vectorAdd   67108864   256   ## 6496   Quadro   vectorAdd   67108864   256   ## 6498   Quadro   vectorAdd   67108864   256   ## 6498   Quadro   vectorAdd   67108864   256   ## 6498   Quadro   vectorAdd   67108864   256   ## 933   GTX-680   subSeqMax   56720256   256   ## 11001   GTX-680   subSeqMax   56720256   256   ## 11001   GTX-680   subSeqMax   56720256   128   ## 11001   GTX-680   subSeqMax		000-	<b>-</b>		05.5
## 6291 Quadro dotProd 67108864 256 ## 840 GTX-680 vectorAdd 58720256 256 ## 842 GTX-680 vectorAdd 58720256 256 ## 843 GTX-680 vectorAdd 62914560 256 ## 843 GTX-680 vectorAdd 67108864 256 ## 1922 Tesla-K40 vectorAdd 54525952 256 ## 1922 Tesla-K40 vectorAdd 58720256 256 ## 1923 Tesla-K40 vectorAdd 58720256 256 ## 1924 Tesla-K40 vectorAdd 58720256 256 ## 1923 Tesla-K40 vectorAdd 67108864 256 ## 3049 Tesla-K20 vectorAdd 54525952 256 ## 3050 Tesla-K20 vectorAdd 54525952 256 ## 3050 Tesla-K20 vectorAdd 67108864 256 ## 4177 TitanBlack vectorAdd 67108864 256 ## 4177 TitanBlack vectorAdd 67108864 256 ## 4178 TitanBlack vectorAdd 67108864 256 ## 4180 TitanBlack vectorAdd 67108864 256 ## 5305 Titan vectorAdd 62914560 256 ## 5306 Titan vectorAdd 62914560 256 ## 5306 Titan vectorAdd 67108864 256 ## 5307 Titan vectorAdd 67108864 256 ## 5308 Titan vectorAdd 67108864 256 ## 5308 Titan vectorAdd 68720256 256 ## 6495 Quadro vectorAdd 67108864 256 ## 6496 Quadro vectorAdd 67108864 256 ## 6497 Quadro vectorAdd 67108864 256 ## 6498 GTX-680 subSeqMax 58720256 256 ## 6498 GTX-680 subSeqMax 58720256 128 ## 1001 GTX-680 subSeqMax 58720256 128 ## 1002 GTX-680 subSeqMax 58720256 128 ## 1003 GTX-680 subSeqMax 54525952 128 ## 11001 GTX-680 subSeqMax 54525952 128 ## 11002 GTX-680 subSeqMax 54525952 128 ## 11003 GTX-680 subSeqMax 67108864 128 ## 2062 Tesla-K40 subSeqMax 54525952 128 ## 11001 GTX-680 subSeqMax 54525952 128 ## 2129 Tesla-K40 subSeqMax 67108864 128 ## 2130 Tesla-K40 subSeqMax 54525952 128 ## 3180 Tesla-K40 subSeqMax 67108864 128 ## 2131 Tesla-K40 subSeqMax 54525952 128 ## 3180 Tesla-K40 subSeqMax 67108864 128 ## 2130 Tesla-K40 subSeqMax 67108864 128 ## 2130 Tesla-K40 subSeqMax 67108864 128 ## 2131 Tesla-K40 subSeqMax 67108864 128 ## 2132 Tesla-K40 subSeqMax 67108864 128 ## 3189 Tesla-K20 subSeqMax 67108864 128 ## 3189 Tesla-K20 subSeqMax 67108864 128 ## 3185 Tesla-K20 subSeqMax 67108864 128 ## 3185 Tesla-K20 subSeq	## 840 GTX-680 vectorAdd 54525952 256 ## 841 GTX-680 vectorAdd 55720256 256 ## 842 GTX-680 vectorAdd 56720256 256 ## 842 GTX-680 vectorAdd 62914560 256 ## 843 GTX-680 vectorAdd 54525952 256 ## 1921 Tesla-K40 vectorAdd 54525952 256 ## 1922 Tesla-K40 vectorAdd 55720256 256 ## 1922 Tesla-K40 vectorAdd 56720256 256 ## 1923 Tesla-K40 vectorAdd 62914560 256 ## 1924 Tesla-K40 vectorAdd 62914560 256 ## 3049 Tesla-K20 vectorAdd 67108864 256 ## 3051 Tesla-K20 vectorAdd 67108864 256 ## 3051 Tesla-K20 vectorAdd 67108864 256 ## 4177 TitanBlack vectorAdd 67108864 256 ## 4178 TitanBlack vectorAdd 56720256 256 ## 4178 TitanBlack vectorAdd 56720256 256 ## 418 418 TitanBlack vectorAdd 62914560 256 ## 418 5305 Titan vectorAdd 67108864 256 ## 5305 Titan vectorAdd 67108864 256 ## 5305 Titan vectorAdd 67108864 256 ## 5308 Titan vectorAdd 67108864 256 ## 5308 Titan vectorAdd 67108864 256 ## 5308 Titan vectorAdd 67108864 256 ## 5497 Quadro vectorAdd 62914560 256 ## 6496 Quadro vectorAdd 62914560 256 ## 6498 Quadro vectorAdd 67108864 256 ## 6498 Quadro vectorAdd 67108864 256 ## 6498 Guadro vectorAdd 67108864 256 ## 6498 Topla for vectorAdd 67108864 256 ## 6498 Guadro vectorAdd 67108864 256 ## 331 GTX-680 subSeqMax 54525952 128 ## 312 GTX-680 subSeqMax 67108864 128 ## 313 GTX-680 subSeqMax 67108864 128 ## 313 GTX-680 subSeqMax 67108864 128 ## 314 GTX-680 subSeqMax 67108864 128 ## 315 Tesla-K40 subSeqMax 67108864 128 ## 315 Tesla-K40 subSeqM			-		
## 840 GTX-680 vectorAdd 54525952 256 ## 841 GTX-680 vectorAdd 62914560 256 ## 843 GTX-680 vectorAdd 67108864 256 ## 843 GTX-680 vectorAdd 67108864 256 ## 1921 Tesla-K40 vectorAdd 67108864 256 ## 1922 Tesla-K40 vectorAdd 6810565 256 ## 1923 Tesla-K40 vectorAdd 62914560 256 ## 1924 Tesla-K40 vectorAdd 62914560 256 ## 3049 Tesla-K40 vectorAdd 62914560 256 ## 3050 Tesla-K20 vectorAdd 54525952 256 ## 3050 Tesla-K20 vectorAdd 67108864 256 ## 4177 TitanBlack vectorAdd 67108864 256 ## 4178 TitanBlack vectorAdd 67108864 256 ## 4180 TitanBlack vectorAdd 58720256 256 ## 5305 Titan vectorAdd 67108864 256 ## 5305 Titan vectorAdd 67108864 256 ## 5307 Titan vectorAdd 58720256 256 ## 5308 Titan vectorAdd 62914560 256 ## 5308 Titan vectorAdd 67108864 256 ## 5498 Quadro vectorAdd 67108864 256 ## 6498 Quadro vectorAdd 67108864 256 ## 6498 Tolar vectorAdd 67108864 256	## 840			•		
## 841 GTX-680 vectorAdd 58720256 256 ## 842 GTX-680 vectorAdd 62914560 256 ## 1921 Tesla-K40 vectorAdd 67108864 256 ## 1922 Tesla-K40 vectorAdd 54525952 256 ## 1922 Tesla-K40 vectorAdd 62914560 256 ## 1923 Tesla-K40 vectorAdd 62914560 256 ## 1924 Tesla-K40 vectorAdd 67108864 256 ## 3049 Tesla-K20 vectorAdd 67108864 256 ## 3051 Tesla-K20 vectorAdd 67108864 256 ## 3051 Tesla-K20 vectorAdd 62914560 256 ## 4177 TitanBlack vectorAdd 62914560 256 ## 4178 TitanBlack vectorAdd 58720256 256 ## 4178 TitanBlack vectorAdd 58720256 256 ## 4180 TitanBlack vectorAdd 58720256 256 ## 5305 Titan vectorAdd 62914560 256 ## 5305 Titan vectorAdd 67108864 256 ## 5306 Quadro vectorAdd 67108864 256 ## 5307 Titan vectorAdd 67108864 256 ## 5308 Quadro vectorAdd 67108864 256 ## 5308 Quadro vectorAdd 67108864 256 ## 6495 Quadro vectorAdd 67108864 256 ## 6497 Quadro vectorAdd 67108864 256 ## 6498 Quadro vectorAdd 67108864 256 ## 931 GTX-680 subSeqMax 58720256 128 ## 932 GTX-680 subSeqMax 58720256 128 ## 933 GTX-680 subSeqMax 67108864 128 ## 1001 GTX-680 subSeqMax 67108864 128 ## 1003 GTX-680 subSeqMax 67108864 128 ## 1001 GTX-680 subSeqMax 67108864 128 ## 2129 Tesla-K40 subSeqMax 67108864 128 ## 2129 Tesla-K40 subSeqMax 67108864 128 ## 2120 Tesla-K40 subSeqMax 67108864 128 ## 2120 Tesla-K40 subSeqMax 67108864 128 ## 2120 Tesla-K40 subSeqMax 67108864 128 ## 2130 Tesla-K40 subSeqMax 67108864 128 ## 3180 Tesla-K20 subSeqMax 67108864 128 ## 3180 Tesla-K20 subSeqMa	## 841			•		
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## 2734 0.005591867 0.006483190
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##
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## 833
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## 1949 0.010114000 0.012357827
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## 1951 0.011598000 0.014485385
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## 2017 0.009381640 0.012129266
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## 2018 0.010114000 0.012357827 1.2218535 0.7896487 1.362280 1.1731267
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## 4276 0.010050000 0.013119732
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##
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                      AccSD
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                                                  mae
                                                           mape
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## 5604 0.8171159 0.1657557 1.993283e-01 0.3587584518 0.6702394
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```

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## 4573 1.0810242 0.1591583 1.537821e-02 0.0983413068 0.4026429
## 4574 1.0810242 0.1591583 1.537821e-02 0.0983413068 0.4026429
## 4575 1.0810242 0.1591583 1.537821e-02 0.0983413068 0.4026429
## 4576 1.0810242 0.1591583 1.537821e-02 0.0983413068 0.4026429
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## 2397 1.9004260 0.6772224 1.144203e-02 0.0951594666 0.8262073
## 2398 1.9004260 0.6772224 1.144203e-02 0.0951594666 0.8262073
## 2399 1.9004260 0.6772224 1.144203e-02 0.0951594666 0.8262073
## 2400 1.9004260 0.6772224 1.144203e-02 0.0951594666 0.8262073
## 2401 1.9004260 0.6772224 1.144203e-02 0.0951594666 0.8262073
## 2402 1.9004260 0.6772224 1.144203e-02 0.0951594666 0.8262073
## 2403 1.9004260 0.6772224 1.144203e-02 0.0951594666 0.8262073
## 3525 1.9004260 0.6772224 1.144203e-02 0.0951594666 0.8262073
## 3526 1.9004260 0.6772224 1.144203e-02 0.0951594666 0.8262073
## 3527 1.9004260 0.6772224 1.144203e-02 0.0951594666 0.8262073
## 3528 1.9004260 0.6772224 1.144203e-02 0.0951594666 0.8262073
## 3529 1.9004260 0.6772224 1.144203e-02 0.0951594666 0.8262073
## 3530 1.9004260 0.6772224 1.144203e-02 0.0951594666 0.8262073
## 3531 1.9004260 0.6772224 1.144203e-02 0.0951594666 0.8262073
## 4331 1.2101830 0.2626948 6.260523e-06 0.0020300043 0.9921642
## 4341 1.2101830 0.2626948 6.260523e-06 0.0020300043 0.9921642
## 4351 1.2101830 0.2626948 6.260523e-06 0.0020300043 0.9921642
## 4361 1.2101830 0.2626948 6.260523e-06 0.0020300043 0.9921642
## 1341 1.2101830 0.2626948 6.260523e-06 0.0020300043 0.9921642
## 1342 1.2101830 0.2626948 6.260523e-06 0.0020300043 0.9921642
## 1343 1.2101830 0.2626948 6.260523e-06 0.0020300043 0.9921642
## 1344 1.2101830 0.2626948 6.260523e-06 0.0020300043 0.9921642
## 2501 1.2101830 0.2626948 6.260523e-06 0.0020300043 0.9921642
## 2502 1.2101830 0.2626948 6.260523e-06 0.0020300043 0.9921642
## 2503 1.2101830 0.2626948 6.260523e-06 0.0020300043 0.9921642
## 2504 1.2101830 0.2626948 6.260523e-06 0.0020300043 0.9921642
## 3629 1.2101830 0.2626948 6.260523e-06 0.0020300043 0.9921642
## 3630 1.2101830 0.2626948 6.260523e-06 0.0020300043 0.9921642
## 3631 1.2101830 0.2626948 6.260523e-06 0.0020300043 0.9921642
## 3632 1.2101830 0.2626948 6.260523e-06 0.0020300043 0.9921642
```

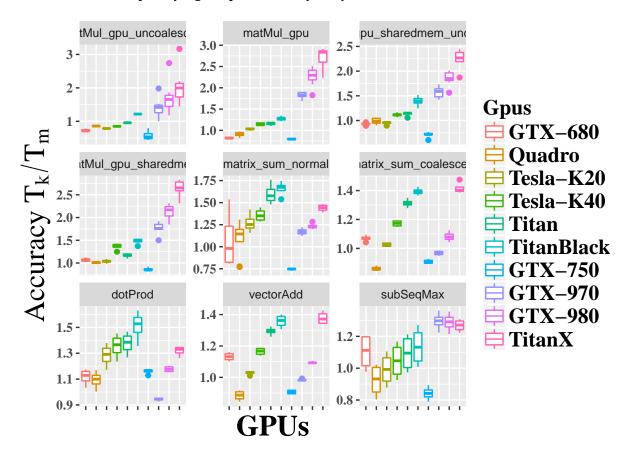
```
## 5291 1.0148011 0.2044312 9.052737e-08 0.0002474287 0.9978675
## 5301 1.0148011 0.2044312 9.052737e-08 0.0002474287 0.9978675
## 5311 1.0148011 0.2044312 9.052737e-08 0.0002474287 0.9978675
## 5321 1.0148011 0.2044312 9.052737e-08 0.0002474287 0.9978675
## 1469 1.0148011 0.2044312 9.052737e-08 0.0002474287 0.9978675
## 1470 1.0148011 0.2044312 9.052737e-08 0.0002474287 0.9978675
## 1471 1.0148011 0.2044312 9.052737e-08 0.0002474287 0.9978675
## 1472 1.0148011 0.2044312 9.052737e-08 0.0002474287 0.9978675
## 2597 1.0148011 0.2044312 9.052737e-08 0.0002474287 0.9978675
## 2598 1.0148011 0.2044312 9.052737e-08 0.0002474287 0.9978675
## 2599 1.0148011 0.2044312 9.052737e-08 0.0002474287 0.9978675
## 2600 1.0148011 0.2044312 9.052737e-08 0.0002474287 0.9978675
## 3725 1.0148011 0.2044312 9.052737e-08 0.0002474287 0.9978675
## 3726 1.0148011 0.2044312 9.052737e-08 0.0002474287 0.9978675
## 3727 1.0148011 0.2044312 9.052737e-08 0.0002474287 0.9978675
## 3728 1.0148011 0.2044312 9.052737e-08 0.0002474287 0.9978675
       1.1668304 0.1396285 1.006926e-06 0.0009346221 0.9942271
## 628
       1.1668304 0.1396285 1.006926e-06 0.0009346221 0.9942271
  630
       1.1668304 0.1396285 1.006926e-06 0.0009346221 0.9942271
       1.1668304 0.1396285 1.006926e-06 0.0009346221 0.9942271
## 1603 1.1668304 0.1396285 1.006926e-06 0.0009346221 0.9942271
## 1604 1.1668304 0.1396285 1.006926e-06 0.0009346221 0.9942271
## 1605 1.1668304 0.1396285 1.006926e-06 0.0009346221 0.9942271
## 1606 1.1668304 0.1396285 1.006926e-06 0.0009346221 0.9942271
## 2731 1.1668304 0.1396285 1.006926e-06 0.0009346221 0.9942271
## 2732 1.1668304 0.1396285 1.006926e-06 0.0009346221 0.9942271
## 2733 1.1668304 0.1396285 1.006926e-06 0.0009346221 0.9942271
## 2734 1.1668304 0.1396285 1.006926e-06 0.0009346221 0.9942271
## 3859 1.1668304 0.1396285 1.006926e-06 0.0009346221 0.9942271
## 3860 1.1668304 0.1396285 1.006926e-06 0.0009346221 0.9942271
  3861 1.1668304 0.1396285 1.006926e-06 0.0009346221 0.9942271
  3862 1.1668304 0.1396285 1.006926e-06 0.0009346221 0.9942271
       1.0397256 0.1855343 5.678565e-07 0.0006268075 0.9944604
       1.0397256 0.1855343 5.678565e-07 0.0006268075 0.9944604
## 721
       1.0397256 0.1855343 5.678565e-07 0.0006268075 0.9944604
       1.0397256 0.1855343 5.678565e-07 0.0006268075 0.9944604
## 723
## 1810 1.0397256 0.1855343 5.678565e-07 0.0006268075 0.9944604
## 1811 1.0397256 0.1855343 5.678565e-07 0.0006268075 0.9944604
## 1812 1.0397256 0.1855343 5.678565e-07 0.0006268075 0.9944604
## 1813 1.0397256 0.1855343 5.678565e-07 0.0006268075 0.9944604
## 2938 1.0397256 0.1855343 5.678565e-07 0.0006268075 0.9944604
## 2939 1.0397256 0.1855343 5.678565e-07 0.0006268075 0.9944604
## 2940 1.0397256 0.1855343 5.678565e-07 0.0006268075 0.9944604
## 2941 1.0397256 0.1855343 5.678565e-07 0.0006268075 0.9944604
## 4066 1.0397256 0.1855343 5.678565e-07 0.0006268075 0.9944604
## 4067 1.0397256 0.1855343 5.678565e-07 0.0006268075 0.9944604
## 4068 1.0397256 0.1855343 5.678565e-07 0.0006268075 0.9944604
## 4069 1.0397256 0.1855343 5.678565e-07 0.0006268075 0.9944604
       1.2615500 0.1998846 1.110826e-05 0.0031785151 0.9855879
## 768
## 769
       1.2615500 0.1998846 1.110826e-05 0.0031785151 0.9855879
       1.2615500 0.1998846 1.110826e-05 0.0031785151 0.9855879
## 770
       1.2615500 0.1998846 1.110826e-05 0.0031785151 0.9855879
       1.2615500 0.1998846 1.110826e-05 0.0031785151 0.9855879
## 831
## 832 1.2615500 0.1998846 1.110826e-05 0.0031785151 0.9855879
```

```
## 833 1.2615500 0.1998846 1.110826e-05 0.0031785151 0.9855879
## 834 1.2615500 0.1998846 1.110826e-05 0.0031785151 0.9855879
## 1948 1.2615500 0.1998846 1.110826e-05 0.0031785151 0.9855879
## 1949 1.2615500 0.1998846 1.110826e-05 0.0031785151 0.9855879
## 1950 1.2615500 0.1998846 1.110826e-05 0.0031785151 0.9855879
## 1951 1.2615500 0.1998846 1.110826e-05 0.0031785151 0.9855879
## 2017 1.2615500 0.1998846 1.110826e-05 0.0031785151 0.9855879
## 2018 1.2615500 0.1998846 1.110826e-05 0.0031785151 0.9855879
## 2019 1.2615500 0.1998846 1.110826e-05 0.0031785151 0.9855879
## 2020 1.2615500 0.1998846 1.110826e-05 0.0031785151 0.9855879
## 3076 1.2615500 0.1998846 1.110826e-05 0.0031785151 0.9855879
## 3077 1.2615500 0.1998846 1.110826e-05 0.0031785151 0.9855879
## 3078 1.2615500 0.1998846 1.110826e-05 0.0031785151 0.9855879
## 3079 1.2615500 0.1998846 1.110826e-05 0.0031785151 0.9855879
## 3145 1.2615500 0.1998846 1.110826e-05 0.0031785151 0.9855879
## 3146 1.2615500 0.1998846 1.110826e-05 0.0031785151 0.9855879
## 3147 1.2615500 0.1998846 1.110826e-05 0.0031785151 0.9855879
## 3148 1.2615500 0.1998846 1.110826e-05 0.0031785151 0.9855879
## 4204 1.2615500 0.1998846 1.110826e-05 0.0031785151 0.9855879
## 4205 1.2615500 0.1998846 1.110826e-05 0.0031785151 0.9855879
## 4206 1.2615500 0.1998846 1.110826e-05 0.0031785151 0.9855879
## 4207 1.2615500 0.1998846 1.110826e-05 0.0031785151 0.9855879
## 4273 1.2615500 0.1998846 1.110826e-05 0.0031785151 0.9855879
## 4274 1.2615500 0.1998846 1.110826e-05 0.0031785151 0.9855879
## 4275 1.2615500 0.1998846 1.110826e-05 0.0031785151 0.9855879
## 4276 1.2615500 0.1998846 1.110826e-05 0.0031785151 0.9855879
colnames(result) <-c("Gpus", "Apps", "InputSize", "ThreadBlock", "Measured", "Predicted", "accuracy",</pre>
write.csv(result, file = "./R-code/Results/LinearRegression.csv")
Tempresult <- data.frame(Gpu, App, Size, Block, TestDuration, predictions, Acc, AccMin, AccMax, AccMean
result$Apps <- factor(result$Apps, levels = c("matMul_gpu_uncoalesced", "matMul_gpu", "matMul_gpu_share
                                               "matrix_sum_normal", "matrix_sum_coalesced",
                                               "dotProd", "vectorAdd", "subSeqMax"))
# result[result$Apps %in% "matrix_sum_normal" & result$Gpus %in% c("Quadro", "TitanX"),]
Graph <- ggplot(data=result, aes(x=Gpus, y=accuracy, group=Gpus, shape=Gpus,col=Gpus)) +</pre>
    geom_boxplot(aes(shape=Gpus)) +
   xlab("GPUs") +
   ylab(expression(paste("Accuracy ",T[k]/T[m] ))) +
   theme(axis.title = element_text(family = "Times", face="bold", size=22)) +
   theme(axis.text = element_text(family = "Times", face="bold", size=10)) +
   theme(axis.text.x=element_blank()) +
   theme(legend.title = element_text(family = "Times", face="bold", size=16)) +
    theme(legend.text = element_text(family = "Times", face="bold", size=16)) +
    # facet_grid(.~Apps, scales="fixed")
   facet_wrap(~Apps, ncol=3, scales="free_y")
# scale_colour_grey()
Graph
```

## Warning: The shape palette can deal with a maximum of 6 discrete values ## because more than 6 becomes difficult to discriminate; you have

```
## 10. Consider specifying shapes manually if you must have them.
```

```
## Warning: The shape palette can deal with a maximum of 6 discrete values
## because more than 6 becomes difficult to discriminate; you have
## 10. Consider specifying shapes manually if you must have them.
```



ggsave(paste("./images/ResultRandomForest.pdf",sep=""), Graph, device = pdf, height=10, width=16)

```
## Warning: The shape palette can deal with a maximum of 6 discrete values
## because more than 6 becomes difficult to discriminate; you have
## 10. Consider specifying shapes manually if you must have them.

## Warning: The shape palette can deal with a maximum of 6 discrete values
## because more than 6 becomes difficult to discriminate; you have
## 10. Consider specifying shapes manually if you must have them.

ggsave(paste("./images/ResultRandomForest.png",sep=""), Graph, height=10, width=16)
```

```
## because more than 6 becomes difficult to discriminate; you have
## 10. Consider specifying shapes manually if you must have them.
```

## Warning: The shape palette can deal with a maximum of 6 discrete values

## Warning: The shape palette can deal with a maximum of 6 discrete values
## because more than 6 becomes difficult to discriminate; you have
## 10. Consider specifying shapes manually if you must have them.