

# prediction-LinearRegression.R

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```
library(e1071)
library(ggplot2)

dirpath <- "~/Doctorate/svm-gpuperf/"
setwd(paste(dirpath, sep=""))

gpus <- read.table("./R-code/deviceInfo.csv", sep=",", header=T)
NoGPU <- dim(gpus)[1]

apps <- c("matMul_gpu_uncoalesced", "matMul_gpu", "matMul_gpu_sharedmem_uncoalesced", "matMul_gpu_sharedmem",
          "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.Instructions",
#   "Floating.Point.Operations.Single.Precision.", "Floating.Point.Operations.Single.Precision.Add.", "Floating.Point.Operations.Single.Precision.FMA.",
#   "FLOP.Efficiency.Peak.Single.",
#   "Instructions.Executed", "Instructions.Issued", "Issue.Slots", "Control.Flow.Instructions", "Misc.Instructions",
# )
# EVENTS_3X <- c("l2_subp0_total_read_sector_queries", "l2_subp1_total_read_sector_queries", "l2_subp2_total_read_sector_queries",
#   "l2_subp3_total_read_sector_queries", "l2_subp0_total_write_sector_queries", "l2_subp1_total_write_sector_queries", "l2_subp2_total_write_sector_queries",
#   "l2_subp3_total_write_sector_queries", "elapsed",
#   "gld_inst_8bit", "gld_inst_16bit", "gld_inst_32bit", "gld_inst_64bit", "gld_inst_128bit",
#   "gst_inst_16bit", "gst_inst_32bit", "gst_inst_64bit", "gst_inst_128bit", "threads_launched",
#   "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.Active")
#
# DataAppGPU30 <- read.csv(file = "./R-code/Datasets/AppGPU30.csv")
# DataAppGPU35 <- read.csv(file = "./R-code/Datasets/AppGPU35.csv")
# DataAppGPU50 <- read.csv(file = "./R-code/Datasets/AppGPU50.csv")
# DataAppGPU52 <- read.csv(file = "./R-code/Datasets/AppGPU52.csv")

Parameters_3x <- c("GpuName", "GpuId", "L2", "Bus", "Memoryclock", "AppName", "AppId", "Input.Size", "Duration",
  "Shared.Memory.Load.Transactions.Per.Request", "Shared.Memory.Store.Transactions.Per.Request",
  "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_32bit",

Parameters_5x <- c("GpuName", "GpuId", "L2", "Bus", "Memoryclock", "AppName", "AppId", "Input.Size", "Dut
"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", "Issued
"Floating.Point.Operations.Single.Precision.", "Floating.Point.Operations.Single.Pre
"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.
# ECC.Transactions
# threads_launched
# gld_request
# gst_request

DataAppGPU30 <- read.csv(file = paste("./R-code/Datasets/AppGPU30.csv", sep = ""))
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 = ""))

result <- data.frame()
# 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])
  } else {
    DataAppGPU <- rbind(DataAppGPU50[Parameters_5x], DataAppGPU52[Parameters_5x])
  }
  for( j in 1:9) {

    Data <- subset(DataAppGPU, AppId == j )
    Data <- Data[complete.cases(Data),]
    dim(Data)

```

```

# View(Data)
# summary(Data)
# DataAppGPU35 <- DataAppGPU35[sapply(DataAppGPU35,is.numeric)]
# DataAppGPU35 <- DataAppGPU35[,~(which(colSums(DataAppGPU35) == 0))]
#

if (j < 5) {
  lowerLimit <- 2048
  uperLimit <- 4096
  blockSize <- 16
} else if (j >= 5 & j < 7) {
  lowerLimit <- 4096
  uperLimit <- 5376
  blockSize <- 16
} else {
  lowerLimit <- 50331648
  uperLimit <- 71303168
  blockSize <- 256
}

if (j < 9) {
  trainingSet <- subset(Data, Input.Size <= lowerLimit | Input.Size >= uperLimit )
  testSet <- subset(Data, (Input.Size > lowerLimit & Input.Size < uperLimit))
  dim(trainingSet)
  dim(testSet)
} else {
  trainingSet <- subset(Data, Input.Size <= lowerLimit | Input.Size >= uperLimit)
  testSet <- subset(Data, (Input.Size > lowerLimit & Input.Size < uperLimit))
}

trainingSet$AppName <- NULL
trainingSet$GpuName <- NULL
trainingSet$GpuId <- NULL
# trainingDuration <- trainingSet["Duration"]
# trainingSet$Duration <- NULL
dim(trainingSet)

TestDuration <- testSet["Duration"]
Size <- testSet["Input.Size"]
App <- testSet["AppName"]
Gpu <- testSet["GpuName"]
Block <- testSet["Block.X"]

testSet$AppName <- NULL
testSet$GpuName <- NULL
testSet$GpuId <- NULL
testSet$Duration <- NULL
dim(testSet)

base <- lm(trainingSet$Duration ~ ., data = trainingSet)
summary(base)
fit <- step(base, direction = "backward")
summary(fit)

```

```

    predictions <- predict(fit, testSet)

    mse <- mean((as.matrix(TestDuration) - predictions)^2)
    mae <- mean(abs(as.matrix(TestDuration) - predictions))
    mape <- mean(abs(as.matrix(TestDuration) - predictions/predictions))
    # mpe <- mean(as.matrix(TestDuration) - predictions/predictions)
    # smape = mean((abs(as.matrix(predictions) - TestDuration) / (abs(TestDuration) + abs(predictions))))

    Acc <- predictions/TestDuration
    AccMin <- min(Acc)
    AccMean <- mean(as.matrix(Acc))
    AccMedian <- median(as.matrix(Acc))
    AccMax <- max(Acc)
    AccSD <- sd(as.matrix(Acc))

    Tempresult <- data.frame(Gpu, App, Size, Block, TestDuration, predictions, Acc, AccMin, AccMax, AccSD)

    result <- rbind(result, Tempresult)

  }
}

```

```

## Start: AIC=-924.95
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
## Control.Flow.Instructions + Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + warps_launched + threads_launched +
## inst_executed + inst_issued1 + inst_issued2 + gld_inst_32bit +
## gst_inst_32bit + gld_request + gst_request + Grid.X + Block.X
##
##
## Step: AIC=-924.95
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +

```

```

## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
## Control.Flow.Instructions + Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + warps_launched + threads_launched +
## inst_executed + inst_issued1 + inst_issued2 + gld_inst_32bit +
## gst_inst_32bit + gld_request + gst_request + Grid.X
##
##
## Step: AIC=-924.95
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
## Control.Flow.Instructions + Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + warps_launched + threads_launched +
## inst_executed + inst_issued1 + inst_issued2 + gld_inst_32bit +
## gst_inst_32bit + gld_request + Grid.X
##
##
## Step: AIC=-924.95
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
## Control.Flow.Instructions + Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + warps_launched + threads_launched +
## inst_executed + inst_issued1 + inst_issued2 + gld_inst_32bit +

```

```

##      gst_inst_32bit + Grid.X
##
##
## Step:  AIC=-924.95
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##      Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##      Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
##      Global.Store.Transactions + Device.Memory.Read.Transactions +
##      Device.Memory.Write.Transactions + L2.Read.Transactions +
##      L2.Write.Transactions + Issued.Control.Flow.Instructions +
##      Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##      Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
##      Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
##      Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
##      Control.Flow.Instructions + Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
##      L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
##      Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##      fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##      fb_subp1_write_sectors + warps_launched + threads_launched +
##      inst_executed + inst_issued1 + inst_issued2 + gld_inst_32bit +
##      Grid.X
##
##
## Step:  AIC=-924.95
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##      Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##      Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
##      Global.Store.Transactions + Device.Memory.Read.Transactions +
##      Device.Memory.Write.Transactions + L2.Read.Transactions +
##      L2.Write.Transactions + Issued.Control.Flow.Instructions +
##      Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##      Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
##      Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
##      Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
##      Control.Flow.Instructions + Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
##      L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
##      Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##      fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##      fb_subp1_write_sectors + warps_launched + threads_launched +
##      inst_executed + inst_issued1 + inst_issued2 + Grid.X
##
##
## Step:  AIC=-924.95
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##      Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##      Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
##      Global.Store.Transactions + Device.Memory.Read.Transactions +
##      Device.Memory.Write.Transactions + L2.Read.Transactions +

```

```

##      L2.Write.Transactions + Issued.Control.Flow.Instructions +
##      Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##      Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
##      Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
##      Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
##      Control.Flow.Instructions + Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
##      L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
##      Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##      fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##      fb_subp1_write_sectors + warps_launched + threads_launched +
##      inst_issued1 + inst_issued2 + Grid.X
##
##
## Step:  AIC=-924.95
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##      Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##      Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
##      Global.Store.Transactions + Device.Memory.Read.Transactions +
##      Device.Memory.Write.Transactions + L2.Read.Transactions +
##      L2.Write.Transactions + Issued.Control.Flow.Instructions +
##      Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##      Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
##      Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
##      Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
##      Control.Flow.Instructions + Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
##      L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
##      Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##      fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##      fb_subp1_write_sectors + warps_launched + inst_issued1 +
##      inst_issued2 + Grid.X
##
##
## Step:  AIC=-924.95
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##      Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##      Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
##      Global.Store.Transactions + Device.Memory.Read.Transactions +
##      Device.Memory.Write.Transactions + L2.Read.Transactions +
##      L2.Write.Transactions + Issued.Control.Flow.Instructions +
##      Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##      Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
##      Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
##      Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
##      Control.Flow.Instructions + Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
##      L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
##      Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##      fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##      fb_subp1_write_sectors + inst_issued1 + inst_issued2 + Grid.X
##
##

```

```

## Step: AIC=-924.95
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
## Control.Flow.Instructions + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + inst_issued1 + inst_issued2 + Grid.X
##
##
## Step: AIC=-924.95
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + Control.Flow.Instructions +
## L2.Read.Transactions..L1.read.requests. + L2.Write.Transactions..L1.write.requests. +
## ECC.Transactions + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + inst_issued1 + inst_issued2 + Grid.X
##
##
## Step: AIC=-924.95
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Instructions.Executed + Instructions.Issued + Issue.Slots +
## Control.Flow.Instructions + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +

```



```

##      fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##      fb_subp1_write_sectors + inst_issued1 + inst_issued2 + Grid.X
##
##
## Step:   AIC=-924.95
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##      Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##      Shared.Load.Transactions + Global.Load.Transactions + Global.Store.Transactions +
##      Device.Memory.Read.Transactions + Device.Memory.Write.Transactions +
##      L2.Read.Transactions + L2.Write.Transactions + Issued.Control.Flow.Instructions +
##      Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##      Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
##      Instructions.Executed + Instructions.Issued + Issue.Slots +
##      Control.Flow.Instructions + L2.Read.Transactions..L1.read.requests. +
##      L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
##      Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##      fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##      fb_subp1_write_sectors + inst_issued1 + inst_issued2 + Grid.X
##
##
## Step:   AIC=-924.95
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##      Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##      Global.Load.Transactions + Global.Store.Transactions + Device.Memory.Read.Transactions +
##      Device.Memory.Write.Transactions + L2.Read.Transactions +
##      L2.Write.Transactions + Issued.Control.Flow.Instructions +
##      Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##      Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
##      Instructions.Executed + Instructions.Issued + Issue.Slots +
##      Control.Flow.Instructions + L2.Read.Transactions..L1.read.requests. +
##      L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
##      Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##      fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##      fb_subp1_write_sectors + inst_issued1 + inst_issued2 + Grid.X
##
##
## Step:   AIC=-924.95
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##      Global.Load.Transactions.Per.Request + Global.Load.Transactions +
##      Global.Store.Transactions + Device.Memory.Read.Transactions +
##      Device.Memory.Write.Transactions + L2.Read.Transactions +
##      L2.Write.Transactions + Issued.Control.Flow.Instructions +
##      Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##      Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
##      Instructions.Executed + Instructions.Issued + Issue.Slots +
##      Control.Flow.Instructions + L2.Read.Transactions..L1.read.requests. +
##      L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
##      Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +

```

```

##      fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##      fb_subp1_write_sectors + inst_issued1 + inst_issued2 + Grid.X
##
##
## Step:   AIC=-924.95
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Global.Load.Transactions.Per.Request +
##      Global.Load.Transactions + Global.Store.Transactions + Device.Memory.Read.Transactions +
##      Device.Memory.Write.Transactions + L2.Read.Transactions +
##      L2.Write.Transactions + Issued.Control.Flow.Instructions +
##      Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##      Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
##      Instructions.Executed + Instructions.Issued + Issue.Slots +
##      Control.Flow.Instructions + L2.Read.Transactions..L1.read.requests. +
##      L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
##      Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##      fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##      fb_subp1_write_sectors + inst_issued1 + inst_issued2 + Grid.X
##
##
## Step:   AIC=-924.95
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Global.Load.Transactions.Per.Request + Global.Load.Transactions +
##      Global.Store.Transactions + Device.Memory.Read.Transactions +
##      Device.Memory.Write.Transactions + L2.Read.Transactions +
##      L2.Write.Transactions + Issued.Control.Flow.Instructions +
##      Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##      Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
##      Instructions.Executed + Instructions.Issued + Issue.Slots +
##      Control.Flow.Instructions + L2.Read.Transactions..L1.read.requests. +
##      L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
##      Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##      fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##      fb_subp1_write_sectors + inst_issued1 + inst_issued2 + Grid.X
##
##
## Step:   AIC=-924.95
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Global.Load.Transactions.Per.Request + Global.Load.Transactions +
##      Global.Store.Transactions + Device.Memory.Read.Transactions +
##      Device.Memory.Write.Transactions + L2.Read.Transactions +
##      L2.Write.Transactions + Issued.Control.Flow.Instructions +
##      Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##      Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
##      Instructions.Executed + Instructions.Issued + Issue.Slots +
##      Control.Flow.Instructions + L2.Read.Transactions..L1.read.requests. +
##      L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
##      Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##      fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##      fb_subp1_write_sectors + inst_issued1 + inst_issued2 + Grid.X
##
##

```

```

##                               Df Sum of Sq      RSS      AIC
## - Device.Memory.Read.Transactions      1  0.000005  0.20494 -926.95
## - L2                                   1  0.000013  0.20495 -926.94
## - FLOP.Efficiency.Peak.Single.         1  0.000232  0.20517 -926.78
## - Input.Size                           1  0.000389  0.20532 -926.67
## - Global.Store.Transactions             1  0.000429  0.20536 -926.64
## - Issue.Slot.Utilization               1  0.000497  0.20543 -926.59
## - Device.Memory.Write.Transactions      1  0.000548  0.20548 -926.55
## - Grid.X                               1  0.000577  0.20551 -926.53
## - Instructions.per.warp                 1  0.000732  0.20567 -926.41
## - Global.Load.Transactions.Per.Request  1  0.001097  0.20603 -926.15
## - Issue.Slots                          1  0.001123  0.20606 -926.13
## - fb_subp1_read_sectors                1  0.001399  0.20633 -925.93
## - Issued.IPC                           1  0.001466  0.20640 -925.88
## - Instructions.Issued                   1  0.001632  0.20657 -925.76
## - inst_issued2                         1  0.001712  0.20665 -925.70
## - L2.Read.Transactions                 1  0.001918  0.20685 -925.55
## - fb_subp0_read_sectors                1  0.002018  0.20695 -925.47
## - Executed.Control.Flow.Instructions    1  0.002133  0.20707 -925.39
## <none>                                0.20494 -924.95
## - Global.Load.Transactions             1  0.004323  0.20926 -923.80
## - Bus                                  1  0.004916  0.20985 -923.37
## - fb_subp0_write_sectors               1  0.005254  0.21019 -923.13
## - Memoryclock                          1  0.005380  0.21032 -923.04
## - Eligible.Warps.Per.Active.Cycle      1  0.005644  0.21058 -922.85
## - L2.Write.Transactions..L1.write.requests. 1  0.007036  0.21197 -921.86
## - fb_subp1_write_sectors               1  0.007462  0.21240 -921.55
## - L2.Write.Transactions                 1  0.007650  0.21259 -921.42
## - ECC.Transactions                     1  0.008014  0.21295 -921.16
## - Control.Flow.Instructions             1  0.015122  0.22006 -916.20
## - Floating.Point.Operations.Single.Precision. 1  0.018244  0.22318 -914.08
## - L2.Read.Transactions..L1.read.requests. 1  0.020906  0.22584 -912.29
## - inst_issued1                         1  0.025193  0.23013 -909.45
## - Instructions.Executed                 1  0.026381  0.23132 -908.67
## - Executed.Load.Store.Instructions      1  0.032331  0.23727 -904.83
## - Issued.Load.Store.Instructions        1  0.037492  0.24243 -901.58
## - Issued.Control.Flow.Instructions      1  0.049484  0.25442 -894.29
##
## Step:  AIC=-926.95
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Input.Size +
##   Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##   Global.Load.Transactions.Per.Request + Global.Load.Transactions +
##   Global.Store.Transactions + Device.Memory.Write.Transactions +
##   L2.Read.Transactions + L2.Write.Transactions + Issued.Control.Flow.Instructions +
##   Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##   Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
##   Instructions.Executed + Instructions.Issued + Issue.Slots +
##   Control.Flow.Instructions + L2.Read.Transactions..L1.read.requests. +
##   L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
##   Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##   fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##   fb_subp1_write_sectors + inst_issued1 + inst_issued2 + Grid.X
##
##                               Df Sum of Sq      RSS      AIC

```

```

## - L2 1 0.000012 0.20495 -928.94
## - FLOP.Efficiency.Peak.Single. 1 0.000237 0.20518 -928.78
## - Input.Size 1 0.000390 0.20533 -928.66
## - Global.Store.Transactions 1 0.000425 0.20536 -928.64
## - Issue.Slot.Utilization 1 0.000506 0.20545 -928.58
## - Grid.X 1 0.000609 0.20555 -928.50
## - Instructions.per.warp 1 0.000734 0.20567 -928.41
## - Device.Memory.Write.Transactions 1 0.000804 0.20575 -928.36
## - Global.Load.Transactions.Per.Request 1 0.001113 0.20605 -928.13
## - Issue.Slots 1 0.001152 0.20609 -928.10
## - Issued.IPC 1 0.001491 0.20643 -927.85
## - Instructions.Issued 1 0.001677 0.20662 -927.72
## - inst_issued2 1 0.001750 0.20669 -927.67
## - L2.Read.Transactions 1 0.001943 0.20688 -927.52
## - fb_subp0_read_sectors 1 0.002126 0.20707 -927.39
## - Executed.Control.Flow.Instructions 1 0.002193 0.20713 -927.34
## - fb_subp1_read_sectors 1 0.002394 0.20733 -927.20
## <none> 0.20494 -926.95
## - Global.Load.Transactions 1 0.004412 0.20935 -925.73
## - Bus 1 0.004925 0.20986 -925.36
## - fb_subp0_write_sectors 1 0.005255 0.21019 -925.13
## - Memoryclock 1 0.005376 0.21032 -925.04
## - Eligible.Warps.Per.Active.Cycle 1 0.005641 0.21058 -924.85
## - L2.Write.Transactions..L1.write.requests. 1 0.007031 0.21197 -923.86
## - ECC.Transactions 1 0.008010 0.21295 -923.16
## - L2.Write.Transactions 1 0.008099 0.21304 -923.10
## - fb_subp1_write_sectors 1 0.009167 0.21411 -922.34
## - Control.Flow.Instructions 1 0.016623 0.22156 -917.17
## - Floating.Point.Operations.Single.Precision. 1 0.019953 0.22489 -914.92
## - L2.Read.Transactions..L1.read.requests. 1 0.020996 0.22594 -914.22
## - Instructions.Executed 1 0.027934 0.23287 -909.66
## - Executed.Load.Store.Instructions 1 0.032400 0.23734 -906.79
## - inst_issued1 1 0.032960 0.23790 -906.43
## - Issued.Load.Store.Instructions 1 0.039465 0.24441 -902.36
## - Issued.Control.Flow.Instructions 1 0.049576 0.25452 -896.24
##
## Step: AIC=-928.94
## trainingSet$Duration ~ Bus + Memoryclock + Input.Size + Issued.IPC +
## Instructions.per.warp + Issue.Slot.Utilization + Global.Load.Transactions.Per.Request +
## Global.Load.Transactions + Global.Store.Transactions + Device.Memory.Write.Transactions +
## L2.Read.Transactions + L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Instructions.Executed + Instructions.Issued + Issue.Slots +
## Control.Flow.Instructions + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + inst_issued1 + inst_issued2 + Grid.X
##
## Df Sum of Sq RSS AIC
## - FLOP.Efficiency.Peak.Single. 1 0.000225 0.20518 -930.78
## - Input.Size 1 0.000382 0.20533 -930.66
## - Global.Store.Transactions 1 0.000433 0.20539 -930.62

```

```

## - Issue.Slot.Utilization      1  0.000499  0.20545 -930.57
## - Grid.X                     1  0.000608  0.20556 -930.49
## - Instructions.per.warp       1  0.000726  0.20568 -930.41
## - Device.Memory.Write.Transactions 1  0.000792  0.20575 -930.36
## - Issue.Slots                1  0.001147  0.20610 -930.10
## - Global.Load.Transactions.Per.Request 1  0.001218  0.20617 -930.05
## - Issued.IPC                 1  0.001548  0.20650 -929.80
## - Instructions.Issued        1  0.001671  0.20662 -929.71
## - inst_issued2              1  0.001745  0.20670 -929.66
## - L2.Read.Transactions       1  0.001952  0.20690 -929.51
## - fb_subp0_read_sectors      1  0.002136  0.20709 -929.38
## - fb_subp1_read_sectors      1  0.002407  0.20736 -929.18
## - Executed.Control.Flow.Instructions 1  0.002589  0.20754 -929.05
## <none>                      0.20495 -928.94
## - Global.Load.Transactions   1  0.004401  0.20935 -927.73
## - fb_subp0_write_sectors     1  0.005246  0.21020 -927.12
## - Memoryclock               1  0.006456  0.21141 -926.26
## - L2.Write.Transactions..L1.write.requests. 1  0.007119  0.21207 -925.78
## - ECC.Transactions           1  0.007998  0.21295 -925.16
## - L2.Write.Transactions      1  0.008096  0.21305 -925.09
## - fb_subp1_write_sectors     1  0.009156  0.21411 -924.34
## - Eligible.Warps.Per.Active.Cycle 1  0.014226  0.21918 -920.81
## - Control.Flow.Instructions  1  0.016836  0.22179 -919.02
## - Floating.Point.Operations.Single.Precision. 1  0.020323  0.22528 -916.66
## - L2.Read.Transactions..L1.read.requests. 1  0.021199  0.22615 -916.08
## - Bus                        1  0.024098  0.22905 -914.15
## - Instructions.Executed      1  0.027932  0.23289 -911.65
## - inst_issued1              1  0.032956  0.23791 -908.43
## - Executed.Load.Store.Instructions 1  0.035833  0.24078 -906.61
## - Issued.Load.Store.Instructions 1  0.040245  0.24520 -903.87
## - Issued.Control.Flow.Instructions 1  0.049721  0.25467 -898.14
##
## Step: AIC=-930.78
## trainingSet$Duration ~ Bus + Memoryclock + Input.Size + Issued.IPC +
##   Instructions.per.warp + Issue.Slot.Utilization + Global.Load.Transactions.Per.Request +
##   Global.Load.Transactions + Global.Store.Transactions + Device.Memory.Write.Transactions +
##   L2.Read.Transactions + L2.Write.Transactions + Issued.Control.Flow.Instructions +
##   Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##   Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
##   Instructions.Executed + Instructions.Issued + Issue.Slots +
##   Control.Flow.Instructions + L2.Read.Transactions..L1.read.requests. +
##   L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
##   Eligible.Warps.Per.Active.Cycle + fb_subp0_read_sectors +
##   fb_subp1_read_sectors + fb_subp0_write_sectors + fb_subp1_write_sectors +
##   inst_issued1 + inst_issued2 + Grid.X
##
##              Df Sum of Sq    RSS    AIC
## - Input.Size      1  0.000241  0.20542 -932.60
## - Issue.Slot.Utilization 1  0.000411  0.20559 -932.47
## - Global.Store.Transactions 1  0.000495  0.20567 -932.41
## - Grid.X          1  0.000506  0.20568 -932.40
## - Instructions.per.warp 1  0.000561  0.20574 -932.36
## - Device.Memory.Write.Transactions 1  0.000769  0.20595 -932.21
## - Global.Load.Transactions.Per.Request 1  0.001019  0.20620 -932.03

```

```

## - Issue.Slots 1 0.001128 0.20630 -931.95
## - Instructions.Issued 1 0.001647 0.20682 -931.57
## - inst_issued2 1 0.001718 0.20689 -931.52
## - Issued.IPC 1 0.001973 0.20715 -931.33
## - fb_subp0_read_sectors 1 0.002075 0.20725 -931.26
## - L2.Read.Transactions 1 0.002098 0.20727 -931.24
## - fb_subp1_read_sectors 1 0.002358 0.20753 -931.05
## - Executed.Control.Flow.Instructions 1 0.002491 0.20767 -930.95
## <none> 0.20518 -930.78
## - Global.Load.Transactions 1 0.004769 0.20995 -929.31
## - fb_subp0_write_sectors 1 0.005180 0.21036 -929.01
## - Memoryclock 1 0.006914 0.21209 -927.77
## - L2.Write.Transactions..L1.write.requests. 1 0.007009 0.21219 -927.70
## - ECC.Transactions 1 0.007828 0.21301 -927.12
## - L2.Write.Transactions 1 0.008041 0.21322 -926.97
## - fb_subp1_write_sectors 1 0.009071 0.21425 -926.24
## - Control.Flow.Instructions 1 0.016611 0.22179 -921.02
## - Floating.Point.Operations.Single.Precision. 1 0.020099 0.22528 -918.66
## - L2.Read.Transactions..L1.read.requests. 1 0.021166 0.22634 -917.95
## - Eligible.Warps.Per.Active.Cycle 1 0.021983 0.22716 -917.41
## - Bus 1 0.024184 0.22936 -915.95
## - Instructions.Executed 1 0.027877 0.23305 -913.54
## - inst_issued1 1 0.033023 0.23820 -910.24
## - Executed.Load.Store.Instructions 1 0.038936 0.24411 -906.54
## - Issued.Load.Store.Instructions 1 0.040512 0.24569 -905.57
## - Issued.Control.Flow.Instructions 1 0.049575 0.25475 -900.10
##
## Step: AIC=-932.6
## trainingSet$Duration ~ Bus + Memoryclock + Issued.IPC + Instructions.per.warp +
## Issue.Slot.Utilization + Global.Load.Transactions.Per.Request +
## Global.Load.Transactions + Global.Store.Transactions + Device.Memory.Write.Transactions +
## L2.Read.Transactions + L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Instructions.Executed + Instructions.Issued + Issue.Slots +
## Control.Flow.Instructions + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + fb_subp0_read_sectors +
## fb_subp1_read_sectors + fb_subp0_write_sectors + fb_subp1_write_sectors +
## inst_issued1 + inst_issued2 + Grid.X
##
## Df Sum of Sq RSS AIC
## - Global.Store.Transactions 1 0.000297 0.20572 -934.38
## - Device.Memory.Write.Transactions 1 0.000737 0.20616 -934.06
## - Grid.X 1 0.001090 0.20651 -933.80
## - Issue.Slots 1 0.001122 0.20654 -933.78
## - Global.Load.Transactions.Per.Request 1 0.001514 0.20693 -933.49
## - Instructions.Issued 1 0.001644 0.20706 -933.39
## - inst_issued2 1 0.001710 0.20713 -933.35
## - fb_subp0_read_sectors 1 0.001860 0.20728 -933.24
## - L2.Read.Transactions 1 0.002004 0.20742 -933.13
## - fb_subp1_read_sectors 1 0.002130 0.20755 -933.04
## - Issue.Slot.Utilization 1 0.002570 0.20799 -932.72
## <none> 0.20542 -932.60

```

```

## - Executed.Control.Flow.Instructions      1  0.002989  0.20841 -932.42
## - Instructions.per.warp                    1  0.003222  0.20864 -932.25
## - Global.Load.Transactions                 1  0.004851  0.21027 -931.07
## - fb_subp0_write_sectors                   1  0.005046  0.21046 -930.93
## - Issued.IPC                              1  0.005289  0.21071 -930.76
## - L2.Write.Transactions..L1.write.requests. 1  0.006777  0.21219 -929.70
## - Memoryclock                             1  0.008576  0.21399 -928.42
## - ECC.Transactions                        1  0.008762  0.21418 -928.29
## - L2.Write.Transactions                   1  0.008873  0.21429 -928.21
## - fb_subp1_write_sectors                   1  0.008875  0.21429 -928.21
## - Eligible.Warps.Per.Active.Cycle         1  0.022523  0.22794 -918.89
## - L2.Read.Transactions..L1.read.requests. 1  0.023510  0.22893 -918.24
## - Control.Flow.Instructions                1  0.024144  0.22956 -917.82
## - Bus                                      1  0.024194  0.22961 -917.78
## - Floating.Point.Operations.Single.Precision. 1  0.027780  0.23320 -915.45
## - inst_issued1                            1  0.032787  0.23821 -912.24
## - Instructions.Executed                    1  0.035467  0.24088 -910.55
## - Executed.Load.Store.Instructions         1  0.042337  0.24776 -906.30
## - Issued.Load.Store.Instructions           1  0.048705  0.25412 -902.47
## - Issued.Control.Flow.Instructions         1  0.052180  0.25760 -900.42
##
## Step: AIC=-934.38
## trainingSet$Duration ~ Bus + Memoryclock + Issued.IPC + Instructions.per.warp +
##   Issue.Slot.Utilization + Global.Load.Transactions.Per.Request +
##   Global.Load.Transactions + Device.Memory.Write.Transactions +
##   L2.Read.Transactions + L2.Write.Transactions + Issued.Control.Flow.Instructions +
##   Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##   Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
##   Instructions.Executed + Instructions.Issued + Issue.Slots +
##   Control.Flow.Instructions + L2.Read.Transactions..L1.read.requests. +
##   L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
##   Eligible.Warps.Per.Active.Cycle + fb_subp0_read_sectors +
##   fb_subp1_read_sectors + fb_subp0_write_sectors + fb_subp1_write_sectors +
##   inst_issued1 + inst_issued2 + Grid.X
##
##
## Df Sum of Sq    RSS    AIC
## - Device.Memory.Write.Transactions      1  0.000698  0.20641 -935.87
## - Issue.Slots                           1  0.000980  0.20669 -935.66
## - Instructions.Issued                     1  0.001483  0.20720 -935.30
## - inst_issued2                           1  0.001548  0.20726 -935.25
## - Grid.X                                 1  0.001667  0.20738 -935.16
## - fb_subp0_read_sectors                   1  0.001679  0.20739 -935.15
## - fb_subp1_read_sectors                   1  0.001904  0.20762 -934.99
## - L2.Read.Transactions                    1  0.001977  0.20769 -934.94
## - Global.Load.Transactions.Per.Request    1  0.002187  0.20790 -934.78
## <none>                                     0.20572 -934.38
## - Issue.Slot.Utilization                  1  0.002838  0.20855 -934.31
## - Instructions.per.warp                   1  0.002977  0.20869 -934.21
## - Executed.Control.Flow.Instructions      1  0.003211  0.20893 -934.04
## - Global.Load.Transactions                 1  0.004579  0.21029 -933.06
## - fb_subp0_write_sectors                   1  0.004825  0.21054 -932.88
## - Issued.IPC                             1  0.006057  0.21177 -932.00
## - fb_subp1_write_sectors                   1  0.008584  0.21430 -930.21
## - Memoryclock                             1  0.008856  0.21457 -930.02

```

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## - L2.Write.Transactions..L1.write.requests. 1 0.009804 0.21552 -929.35
## - ECC.Transactions 1 0.010506 0.21622 -928.86
## - L2.Write.Transactions 1 0.014269 0.21998 -926.25
## - Eligible.Warps.Per.Active.Cycle 1 0.022361 0.22807 -920.80
## - L2.Read.Transactions..L1.read.requests. 1 0.023230 0.22894 -920.23
## - Bus 1 0.025390 0.23110 -918.81
## - Control.Flow.Instructions 1 0.026427 0.23214 -918.13
## - Floating.Point.Operations.Single.Precision. 1 0.029566 0.23528 -916.10
## - inst_issued1 1 0.034268 0.23998 -913.12
## - Executed.Load.Store.Instructions 1 0.046040 0.25176 -905.88
## - Instructions.Executed 1 0.050177 0.25589 -903.42
## - Issued.Load.Store.Instructions 1 0.051930 0.25765 -902.39
## - Issued.Control.Flow.Instructions 1 0.060898 0.26661 -897.23
##
## Step: AIC=-935.87
## trainingSet$Duration ~ Bus + Memoryclock + Issued.IPC + Instructions.per.warp +
## Issue.Slot.Utilization + Global.Load.Transactions.Per.Request +
## Global.Load.Transactions + L2.Read.Transactions + L2.Write.Transactions +
## Issued.Control.Flow.Instructions + Executed.Control.Flow.Instructions +
## Issued.Load.Store.Instructions + Executed.Load.Store.Instructions +
## Floating.Point.Operations.Single.Precision. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + Control.Flow.Instructions +
## L2.Read.Transactions..L1.read.requests. + L2.Write.Transactions..L1.write.requests. +
## ECC.Transactions + Eligible.Warps.Per.Active.Cycle + fb_subp0_read_sectors +
## fb_subp1_read_sectors + fb_subp0_write_sectors + fb_subp1_write_sectors +
## inst_issued1 + inst_issued2 + Grid.X
##
##
## Df Sum of Sq RSS AIC
## - Issue.Slots 1 0.001014 0.20743 -937.13
## - Grid.X 1 0.001275 0.20769 -936.94
## - Instructions.Issued 1 0.001520 0.20793 -936.76
## - inst_issued2 1 0.001590 0.20800 -936.71
## - L2.Read.Transactions 1 0.001836 0.20825 -936.53
## - Global.Load.Transactions.Per.Request 1 0.001882 0.20829 -936.50
## - fb_subp0_read_sectors 1 0.001964 0.20838 -936.44
## - fb_subp1_read_sectors 1 0.002206 0.20862 -936.26
## - Issue.Slot.Utilization 1 0.002673 0.20908 -935.93
## <none> 0.20641 -935.87
## - Executed.Control.Flow.Instructions 1 0.003091 0.20950 -935.62
## - Instructions.per.warp 1 0.003943 0.21035 -935.01
## - Global.Load.Transactions 1 0.004041 0.21045 -934.94
## - Issued.IPC 1 0.005698 0.21211 -933.76
## - Memoryclock 1 0.008737 0.21515 -931.61
## - fb_subp0_write_sectors 1 0.009179 0.21559 -931.30
## - L2.Write.Transactions..L1.write.requests. 1 0.010081 0.21649 -930.67
## - fb_subp1_write_sectors 1 0.010120 0.21653 -930.64
## - ECC.Transactions 1 0.010144 0.21656 -930.63
## - L2.Write.Transactions 1 0.018426 0.22484 -924.96
## - Eligible.Warps.Per.Active.Cycle 1 0.022802 0.22921 -922.05
## - L2.Read.Transactions..L1.read.requests. 1 0.023075 0.22949 -921.87
## - Control.Flow.Instructions 1 0.025733 0.23214 -920.13
## - Bus 1 0.026710 0.23312 -919.49
## - Floating.Point.Operations.Single.Precision. 1 0.028870 0.23528 -918.10
## - inst_issued1 1 0.034054 0.24047 -914.81

```



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## - Executed.Load.Store.Instructions          1  0.045348 0.25176 -907.88
## - Instructions.Executed                     1  0.049811 0.25622 -905.23
## - Issued.Load.Store.Instructions            1  0.052491 0.25890 -903.66
## - Issued.Control.Flow.Instructions          1  0.060241 0.26665 -899.20
##
## Step: AIC=-937.13
## trainingSet$Duration ~ Bus + Memoryclock + Issued.IPC + Instructions.per.warp +
##   Issue.Slot.Utilization + Global.Load.Transactions.Per.Request +
##   Global.Load.Transactions + L2.Read.Transactions + L2.Write.Transactions +
##   Issued.Control.Flow.Instructions + Executed.Control.Flow.Instructions +
##   Issued.Load.Store.Instructions + Executed.Load.Store.Instructions +
##   Floating.Point.Operations.Single.Precision. + Instructions.Executed +
##   Instructions.Issued + Control.Flow.Instructions + L2.Read.Transactions..L1.read.requests. +
##   L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
##   Eligible.Warps.Per.Active.Cycle + fb_subp0_read_sectors +
##   fb_subp1_read_sectors + fb_subp0_write_sectors + fb_subp1_write_sectors +
##   inst_issued1 + inst_issued2 + Grid.X
##
##                                     Df Sum of Sq    RSS      AIC
## - fb_subp0_read_sectors             1  0.001016 0.20844 -938.39
## - Grid.X                             1  0.001173 0.20860 -938.28
## - fb_subp1_read_sectors             1  0.001236 0.20866 -938.23
## - Global.Load.Transactions.Per.Request 1  0.001802 0.20923 -937.82
## - L2.Read.Transactions               1  0.001889 0.20932 -937.76
## - Issue.Slot.Utilization             1  0.002450 0.20988 -937.36
## - Executed.Control.Flow.Instructions 1  0.002575 0.21000 -937.27
## <none>                               0.20743 -937.13
## - Global.Load.Transactions           1  0.003775 0.21120 -936.41
## - Instructions.per.warp               1  0.004492 0.21192 -935.89
## - Issued.IPC                         1  0.005432 0.21286 -935.23
## - fb_subp0_write_sectors             1  0.008493 0.21592 -933.07
## - Memoryclock                       1  0.009256 0.21668 -932.54
## - fb_subp1_write_sectors             1  0.009410 0.21684 -932.43
## - ECC.Transactions                   1  0.010864 0.21829 -931.42
## - L2.Write.Transactions..L1.write.requests. 1  0.010957 0.21838 -931.36
## - L2.Write.Transactions              1  0.020463 0.22789 -924.92
## - Eligible.Warps.Per.Active.Cycle    1  0.022873 0.23030 -923.33
## - L2.Read.Transactions..L1.read.requests. 1  0.024814 0.23224 -922.07
## - Bus                                1  0.026259 0.23369 -921.13
## - Control.Flow.Instructions          1  0.026519 0.23394 -920.96
## - Floating.Point.Operations.Single.Precision. 1  0.029716 0.23714 -918.91
## - inst_issued1                      1  0.033977 0.24140 -916.22
## - inst_issued2                      1  0.034306 0.24173 -916.02
## - Executed.Load.Store.Instructions    1  0.046025 0.25345 -908.87
## - Instructions.Executed               1  0.051164 0.25859 -905.84
## - Issued.Load.Store.Instructions      1  0.051513 0.25894 -905.63
## - Issued.Control.Flow.Instructions    1  0.060605 0.26803 -900.42
## - Instructions.Issued                 1  0.084659 0.29208 -887.45
##
## Step: AIC=-938.39
## trainingSet$Duration ~ Bus + Memoryclock + Issued.IPC + Instructions.per.warp +
##   Issue.Slot.Utilization + Global.Load.Transactions.Per.Request +
##   Global.Load.Transactions + L2.Read.Transactions + L2.Write.Transactions +
##   Issued.Control.Flow.Instructions + Executed.Control.Flow.Instructions +

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##      Issued.Load.Store.Instructions + Executed.Load.Store.Instructions +
##      Floating.Point.Operations.Single.Precision. + Instructions.Executed +
##      Instructions.Issued + Control.Flow.Instructions + L2.Read.Transactions..L1.read.requests. +
##      L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
##      Eligible.Warps.Per.Active.Cycle + fb_subp1_read_sectors +
##      fb_subp0_write_sectors + fb_subp1_write_sectors + inst_issued1 +
##      inst_issued2 + Grid.X
##
##
##              Df Sum of Sq      RSS      AIC
## - fb_subp1_read_sectors      1  0.000833 0.20927 -939.79
## - L2.Read.Transactions        1  0.001725 0.21017 -939.15
## - Global.Load.Transactions.Per.Request  1  0.002050 0.21049 -938.91
## - Grid.X                      1  0.002345 0.21079 -938.70
## - Issue.Slot.Utilization      1  0.002505 0.21095 -938.59
## <none>                        0.20844 -938.39
## - Global.Load.Transactions    1  0.003938 0.21238 -937.57
## - Instructions.per.warp       1  0.004313 0.21275 -937.30
## - Executed.Control.Flow.Instructions  1  0.004538 0.21298 -937.14
## - Issued.IPC                  1  0.005968 0.21441 -936.13
## - fb_subp0_write_sectors      1  0.007833 0.21627 -934.82
## - fb_subp1_write_sectors      1  0.008861 0.21730 -934.10
## - Memoryclock                 1  0.009100 0.21754 -933.94
## - L2.Write.Transactions..L1.write.requests.  1  0.012289 0.22073 -931.74
## - ECC.Transactions            1  0.017389 0.22583 -928.29
## - L2.Write.Transactions       1  0.020404 0.22885 -926.29
## - Eligible.Warps.Per.Active.Cycle  1  0.022818 0.23126 -924.71
## - L2.Read.Transactions..L1.read.requests.  1  0.024762 0.23320 -923.44
## - Bus                          1  0.027611 0.23605 -921.61
## - inst_issued1                1  0.033043 0.24149 -918.17
## - inst_issued2                1  0.033354 0.24180 -917.98
## - Control.Flow.Instructions   1  0.042933 0.25138 -912.11
## - Executed.Load.Store.Instructions  1  0.045010 0.25345 -910.87
## - Floating.Point.Operations.Single.Precision.  1  0.045985 0.25443 -910.29
## - Instructions.Executed       1  0.064827 0.27327 -899.50
## - Issued.Control.Flow.Instructions  1  0.079018 0.28746 -891.86
## - Instructions.Issued         1  0.090947 0.29939 -885.72
## - Issued.Load.Store.Instructions  1  0.105592 0.31403 -878.51
##
## Step:  AIC=-939.79
## trainingSet$Duration ~ Bus + Memoryclock + Issued.IPC + Instructions.per.warp +
##      Issue.Slot.Utilization + Global.Load.Transactions.Per.Request +
##      Global.Load.Transactions + L2.Read.Transactions + L2.Write.Transactions +
##      Issued.Control.Flow.Instructions + Executed.Control.Flow.Instructions +
##      Issued.Load.Store.Instructions + Executed.Load.Store.Instructions +
##      Floating.Point.Operations.Single.Precision. + Instructions.Executed +
##      Instructions.Issued + Control.Flow.Instructions + L2.Read.Transactions..L1.read.requests. +
##      L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
##      Eligible.Warps.Per.Active.Cycle + fb_subp0_write_sectors +
##      fb_subp1_write_sectors + inst_issued1 + inst_issued2 + Grid.X
##
##
##              Df Sum of Sq      RSS      AIC
## - L2.Read.Transactions        1  0.00182 0.21110 -940.48
## - Global.Load.Transactions.Per.Request  1  0.00191 0.21119 -940.42
## - Issue.Slot.Utilization      1  0.00230 0.21158 -940.14

```

```

## - Grid.X 1 0.00259 0.21186 -939.93
## <none> 0.20928 -939.79
## - Global.Load.Transactions 1 0.00313 0.21240 -939.55
## - Instructions.per.warp 1 0.00387 0.21314 -939.02
## - Issued.IPC 1 0.00571 0.21498 -937.72
## - fb_subp0_write_sectors 1 0.00726 0.21653 -936.64
## - Executed.Control.Flow.Instructions 1 0.00793 0.21721 -936.17
## - fb_subp1_write_sectors 1 0.00826 0.21754 -935.94
## - Memoryclock 1 0.01067 0.21995 -934.28
## - L2.Write.Transactions..L1.write.requests. 1 0.01842 0.22770 -929.05
## - Eligible.Warps.Per.Active.Cycle 1 0.02203 0.23131 -926.67
## - L2.Read.Transactions..L1.read.requests. 1 0.02492 0.23420 -924.80
## - Bus 1 0.02678 0.23605 -923.61
## - L2.Write.Transactions 1 0.03130 0.24058 -920.74
## - inst_issued1 1 0.03442 0.24370 -918.80
## - inst_issued2 1 0.03556 0.24484 -918.09
## - Control.Flow.Instructions 1 0.04220 0.25147 -914.05
## - Floating.Point.Operations.Single.Precision. 1 0.04518 0.25445 -912.27
## - Executed.Load.Store.Instructions 1 0.05428 0.26356 -906.97
## - Instructions.Issued 1 0.12983 0.33910 -868.91
## - Issued.Load.Store.Instructions 1 0.16962 0.37889 -852.16
## - ECC.Transactions 1 0.20804 0.41732 -837.57
## - Issued.Control.Flow.Instructions 1 0.50190 0.71118 -757.08
## - Instructions.Executed 1 0.67490 0.88418 -724.20
##
## Step: AIC=-940.48
## trainingSet$Duration ~ Bus + Memoryclock + Issued.IPC + Instructions.per.warp +
## Issue.Slot.Utilization + Global.Load.Transactions.Per.Request +
## Global.Load.Transactions + L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Instructions.Executed + Instructions.Issued + Control.Flow.Instructions +
## L2.Read.Transactions..L1.read.requests. + L2.Write.Transactions..L1.write.requests. +
## ECC.Transactions + Eligible.Warps.Per.Active.Cycle + fb_subp0_write_sectors +
## fb_subp1_write_sectors + inst_issued1 + inst_issued2 + Grid.X
##
## Df Sum of Sq RSS AIC
## - Global.Load.Transactions 1 0.00164 0.21273 -941.31
## - Global.Load.Transactions.Per.Request 1 0.00184 0.21293 -941.17
## - Issue.Slot.Utilization 1 0.00263 0.21372 -940.61
## <none> 0.21110 -940.48
## - Grid.X 1 0.00283 0.21392 -940.47
## - Instructions.per.warp 1 0.00336 0.21446 -940.10
## - Issued.IPC 1 0.00619 0.21728 -938.12
## - fb_subp0_write_sectors 1 0.00675 0.21785 -937.73
## - fb_subp1_write_sectors 1 0.00773 0.21882 -937.05
## - Executed.Control.Flow.Instructions 1 0.00781 0.21890 -937.00
## - Memoryclock 1 0.01094 0.22203 -934.85
## - L2.Write.Transactions..L1.write.requests. 1 0.01811 0.22921 -930.05
## - L2.Read.Transactions..L1.read.requests. 1 0.02413 0.23523 -926.14
## - Eligible.Warps.Per.Active.Cycle 1 0.02528 0.23638 -925.40
## - L2.Write.Transactions 1 0.03074 0.24183 -921.96
## - Bus 1 0.03150 0.24259 -921.48
## - inst_issued1 1 0.03460 0.24570 -919.56

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## - inst_issued2                1    0.03579 0.24688 -918.83
## - Control.Flow.Instructions    1    0.04132 0.25241 -915.49
## - Floating.Point.Operations.Single.Precision. 1    0.04434 0.25544 -913.69
## - Executed.Load.Store.Instructions 1    0.05583 0.26693 -907.05
## - Instructions.Issued          1    0.13008 0.34117 -869.99
## - Issued.Load.Store.Instructions 1    0.17021 0.38130 -853.20
## - ECC.Transactions            1    0.20971 0.42080 -838.31
## - Issued.Control.Flow.Instructions 1    0.50093 0.71203 -758.90
## - Instructions.Executed       1    0.67397 0.88506 -726.05
##
## Step: AIC=-941.31
## trainingSet$Duration ~ Bus + Memoryclock + Issued.IPC + Instructions.per.warp +
##   Issue.Slot.Utilization + Global.Load.Transactions.Per.Request +
##   L2.Write.Transactions + Issued.Control.Flow.Instructions +
##   Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##   Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
##   Instructions.Executed + Instructions.Issued + Control.Flow.Instructions +
##   L2.Read.Transactions..L1.read.requests. + L2.Write.Transactions..L1.write.requests. +
##   ECC.Transactions + Eligible.Warps.Per.Active.Cycle + fb_subp0_write_sectors +
##   fb_subp1_write_sectors + inst_issued1 + inst_issued2 + Grid.X
##
##
##              Df Sum of Sq    RSS    AIC
## - Global.Load.Transactions.Per.Request 1    0.00136 0.21409 -942.35
## - Grid.X                               1    0.00167 0.21440 -942.14
## - Issue.Slot.Utilization               1    0.00252 0.21525 -941.54
## <none>                                0.21273 -941.31
## - Issued.IPC                          1    0.00569 0.21843 -939.33
## - Executed.Control.Flow.Instructions 1    0.00642 0.21915 -938.82
## - fb_subp0_write_sectors              1    0.00661 0.21935 -938.69
## - Instructions.per.warp                1    0.00669 0.21942 -938.64
## - fb_subp1_write_sectors              1    0.00754 0.22028 -938.05
## - Memoryclock                        1    0.01117 0.22390 -935.59
## - L2.Write.Transactions..L1.write.requests. 1    0.01665 0.22938 -931.94
## - Eligible.Warps.Per.Active.Cycle     1    0.02696 0.23969 -925.30
## - L2.Read.Transactions..L1.read.requests. 1    0.02724 0.23998 -925.12
## - Bus                                 1    0.03231 0.24505 -921.96
## - inst_issued1                       1    0.03616 0.24889 -919.61
## - inst_issued2                       1    0.03757 0.25030 -918.76
## - L2.Write.Transactions               1    0.03808 0.25081 -918.45
## - Control.Flow.Instructions           1    0.03987 0.25261 -917.37
## - Floating.Point.Operations.Single.Precision. 1    0.04295 0.25569 -915.54
## - Executed.Load.Store.Instructions    1    0.05562 0.26835 -908.24
## - Instructions.Issued                 1    0.12981 0.34255 -871.38
## - Issued.Load.Store.Instructions      1    0.20544 0.41817 -841.26
## - ECC.Transactions                   1    0.21841 0.43115 -836.65
## - Issued.Control.Flow.Instructions    1    0.51098 0.72372 -758.44
## - Instructions.Executed               1    0.67612 0.88885 -727.40
##
## Step: AIC=-942.35
## trainingSet$Duration ~ Bus + Memoryclock + Issued.IPC + Instructions.per.warp +
##   Issue.Slot.Utilization + L2.Write.Transactions + Issued.Control.Flow.Instructions +
##   Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##   Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
##   Instructions.Executed + Instructions.Issued + Control.Flow.Instructions +

```

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##      L2.Read.Transactions..L1.read.requests. + L2.Write.Transactions..L1.write.requests. +
##      ECC.Transactions + Eligible.Warps.Per.Active.Cycle + fb_subp0_write_sectors +
##      fb_subp1_write_sectors + inst_issued1 + inst_issued2 + Grid.X
##
##              Df Sum of Sq      RSS      AIC
## - Grid.X          1    0.00049 0.21458 -944.01
## - Issue.Slot.Utilization 1    0.00121 0.21530 -943.50
## <none>                        0.21409 -942.35
## - Issued.IPC          1    0.00645 0.22054 -939.87
## - Executed.Control.Flow.Instructions 1    0.00645 0.22055 -939.87
## - fb_subp0_write_sectors 1    0.00647 0.22056 -939.86
## - fb_subp1_write_sectors 1    0.00739 0.22148 -939.23
## - Memoryclock         1    0.01037 0.22446 -937.21
## - Instructions.per.warp 1    0.01536 0.22945 -933.89
## - L2.Write.Transactions..L1.write.requests. 1    0.01539 0.22948 -933.87
## - Eligible.Warps.Per.Active.Cycle 1    0.02563 0.23972 -927.28
## - Bus                  1    0.03143 0.24553 -923.67
## - L2.Read.Transactions..L1.read.requests. 1    0.03271 0.24680 -922.89
## - inst_issued1         1    0.03875 0.25285 -919.23
## - inst_issued2         1    0.03980 0.25389 -918.61
## - Control.Flow.Instructions 1    0.04169 0.25578 -917.49
## - L2.Write.Transactions 1    0.04436 0.25845 -915.92
## - Floating.Point.Operations.Single.Precision. 1    0.04521 0.25930 -915.43
## - Executed.Load.Store.Instructions 1    0.05445 0.26855 -910.13
## - Instructions.Issued   1    0.13532 0.34941 -870.39
## - Issued.Load.Store.Instructions 1    0.20431 0.41840 -843.18
## - ECC.Transactions      1    0.22270 0.43680 -836.68
## - Issued.Control.Flow.Instructions 1    0.50963 0.72372 -760.43
## - Instructions.Executed 1    0.68086 0.89495 -728.37
##
## Step:  AIC=-944.01
## trainingSet$Duration ~ Bus + Memoryclock + Issued.IPC + Instructions.per.warp +
##      Issue.Slot.Utilization + L2.Write.Transactions + Issued.Control.Flow.Instructions +
##      Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##      Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
##      Instructions.Executed + Instructions.Issued + Control.Flow.Instructions +
##      L2.Read.Transactions..L1.read.requests. + L2.Write.Transactions..L1.write.requests. +
##      ECC.Transactions + Eligible.Warps.Per.Active.Cycle + fb_subp0_write_sectors +
##      fb_subp1_write_sectors + inst_issued1 + inst_issued2
##
##              Df Sum of Sq      RSS      AIC
## - Issue.Slot.Utilization 1    0.00109 0.21567 -945.25
## <none>                        0.21458 -944.01
## - Issued.IPC          1    0.00598 0.22056 -941.86
## - fb_subp0_write_sectors 1    0.00626 0.22084 -941.67
## - Executed.Control.Flow.Instructions 1    0.00640 0.22098 -941.57
## - fb_subp1_write_sectors 1    0.00716 0.22174 -941.05
## - Memoryclock         1    0.01014 0.22472 -939.04
## - L2.Write.Transactions..L1.write.requests. 1    0.01493 0.22951 -935.85
## - Instructions.per.warp 1    0.02659 0.24116 -928.37
## - Eligible.Warps.Per.Active.Cycle 1    0.02693 0.24151 -928.16
## - Bus                  1    0.03248 0.24706 -924.72
## - L2.Read.Transactions..L1.read.requests. 1    0.03797 0.25254 -921.41
## - inst_issued1         1    0.03844 0.25302 -921.13

```

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## - inst_issued2                1    0.03933 0.25390 -920.60
## - L2.Write.Transactions        1    0.04612 0.26070 -916.61
## - Control.Flow.Instructions    1    0.05355 0.26813 -912.37
## - Executed.Load.Store.Instructions 1    0.05466 0.26923 -911.75
## - Floating.Point.Operations.Single.Precision. 1    0.05732 0.27189 -910.26
## - Instructions.Issued          1    0.13495 0.34953 -872.33
## - Issued.Load.Store.Instructions 1    0.21028 0.42486 -842.87
## - ECC.Transactions            1    0.22241 0.43699 -838.61
## - Issued.Control.Flow.Instructions 1    0.50953 0.72410 -762.36
## - Instructions.Executed        1    0.82150 1.03608 -708.26
##
## Step: AIC=-945.25
## trainingSet$Duration ~ Bus + Memoryclock + Issued.IPC + Instructions.per.warp +
##   L2.Write.Transactions + Issued.Control.Flow.Instructions +
##   Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##   Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
##   Instructions.Executed + Instructions.Issued + Control.Flow.Instructions +
##   L2.Read.Transactions..L1.read.requests. + L2.Write.Transactions..L1.write.requests. +
##   ECC.Transactions + Eligible.Warps.Per.Active.Cycle + fb_subp0_write_sectors +
##   fb_subp1_write_sectors + inst_issued1 + inst_issued2
##
##                                     Df Sum of Sq    RSS    AIC
## <none>                                     0.21567 -945.25
## - Executed.Control.Flow.Instructions      1    0.00620 0.22186 -942.97
## - fb_subp0_write_sectors                  1    0.00661 0.22228 -942.68
## - fb_subp1_write_sectors                  1    0.00751 0.22318 -942.08
## - Memoryclock                            1    0.01247 0.22814 -938.76
## - L2.Write.Transactions..L1.write.requests. 1    0.01595 0.23161 -936.48
## - Issued.IPC                             1    0.01677 0.23243 -935.94
## - Eligible.Warps.Per.Active.Cycle         1    0.02678 0.24244 -929.57
## - Instructions.per.warp                   1    0.02743 0.24310 -929.17
## - Bus                                    1    0.03358 0.24925 -925.40
## - L2.Read.Transactions..L1.read.requests. 1    0.03849 0.25416 -922.45
## - inst_issued1                           1    0.03850 0.25417 -922.44
## - inst_issued2                           1    0.03931 0.25497 -921.96
## - L2.Write.Transactions                   1    0.04645 0.26212 -917.79
## - Executed.Load.Store.Instructions         1    0.05487 0.27054 -913.02
## - Control.Flow.Instructions               1    0.05676 0.27243 -911.97
## - Floating.Point.Operations.Single.Precision. 1    0.06060 0.27627 -909.85
## - Instructions.Issued                     1    0.13546 0.35113 -873.65
## - Issued.Load.Store.Instructions           1    0.21117 0.42683 -844.17
## - ECC.Transactions                       1    0.22139 0.43705 -840.59
## - Issued.Control.Flow.Instructions         1    0.51381 0.72947 -763.24
## - Instructions.Executed                   1    0.82609 1.04176 -709.43
## Start: AIC=-956.44
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##   Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##   Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##   Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##   Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
##   Global.Store.Transactions + Device.Memory.Read.Transactions +
##   Device.Memory.Write.Transactions + L2.Read.Transactions +
##   L2.Write.Transactions + Issued.Control.Flow.Instructions +
##   Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +

```

```

## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
## Control.Flow.Instructions + Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + warps_launched + threads_launched +
## inst_executed + inst_issued1 + inst_issued2 + gld_inst_32bit +
## gst_inst_32bit + gld_request + gst_request + Grid.X + Block.X
##
##
## Step: AIC=-956.44
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
## Control.Flow.Instructions + Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + warps_launched + threads_launched +
## inst_executed + inst_issued1 + inst_issued2 + gld_inst_32bit +
## gst_inst_32bit + gld_request + Grid.X + Block.X
##
##
## Step: AIC=-956.44
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
## Control.Flow.Instructions + Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + warps_launched + threads_launched +
## inst_executed + inst_issued1 + inst_issued2 + gld_inst_32bit +
## gst_inst_32bit + Grid.X + Block.X

```

```

##
##
## Step: AIC=-956.44
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
## Control.Flow.Instructions + Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + warps_launched + threads_launched +
## inst_executed + inst_issued1 + inst_issued2 + gld_inst_32bit +
## Grid.X + Block.X
##
##
## Step: AIC=-956.44
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
## Control.Flow.Instructions + Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + warps_launched + threads_launched +
## inst_executed + inst_issued1 + inst_issued2 + Grid.X + Block.X
##
##
## Step: AIC=-956.44
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +

```



```

## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
## Control.Flow.Instructions + Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + warps_launched + threads_launched +
## inst_issued1 + inst_issued2 + Grid.X + Block.X
##
##
## Step: AIC=-956.44
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
## Control.Flow.Instructions + Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + warps_launched + inst_issued1 +
## inst_issued2 + Grid.X + Block.X
##
##
## Step: AIC=-956.44
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
## Control.Flow.Instructions + Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + inst_issued1 + inst_issued2 + Grid.X +
## Block.X
##
##

```

```

## Step: AIC=-956.44
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
## Control.Flow.Instructions + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + inst_issued1 + inst_issued2 + Grid.X +
## Block.X
##
##
## Step: AIC=-956.44
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + Control.Flow.Instructions +
## L2.Read.Transactions..L1.read.requests. + L2.Write.Transactions..L1.write.requests. +
## ECC.Transactions + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + inst_issued1 + inst_issued2 + Grid.X +
## Block.X
##
##
## Step: AIC=-956.44
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Instructions.Executed + Instructions.Issued + Issue.Slots +
## Control.Flow.Instructions + L2.Read.Transactions..L1.read.requests. +

```

```

##      L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
##      Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##      fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##      fb_subp1_write_sectors + inst_issued1 + inst_issued2 + Grid.X +
##      Block.X
##
##
## Step:  AIC=-956.44
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##      Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##      Shared.Load.Transactions + Global.Load.Transactions + Global.Store.Transactions +
##      Device.Memory.Read.Transactions + Device.Memory.Write.Transactions +
##      L2.Read.Transactions + L2.Write.Transactions + Issued.Control.Flow.Instructions +
##      Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##      Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
##      Instructions.Executed + Instructions.Issued + Issue.Slots +
##      Control.Flow.Instructions + L2.Read.Transactions..L1.read.requests. +
##      L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
##      Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##      fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##      fb_subp1_write_sectors + inst_issued1 + inst_issued2 + Grid.X +
##      Block.X
##
##
## Step:  AIC=-956.44
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##      Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##      Global.Load.Transactions + Global.Store.Transactions + Device.Memory.Read.Transactions +
##      Device.Memory.Write.Transactions + L2.Read.Transactions +
##      L2.Write.Transactions + Issued.Control.Flow.Instructions +
##      Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##      Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
##      Instructions.Executed + Instructions.Issued + Issue.Slots +
##      Control.Flow.Instructions + L2.Read.Transactions..L1.read.requests. +
##      L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
##      Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##      fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##      fb_subp1_write_sectors + inst_issued1 + inst_issued2 + Grid.X +
##      Block.X
##
##
## Step:  AIC=-956.44
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##      Global.Load.Transactions.Per.Request + Global.Load.Transactions +
##      Global.Store.Transactions + Device.Memory.Read.Transactions +
##      Device.Memory.Write.Transactions + L2.Read.Transactions +
##      L2.Write.Transactions + Issued.Control.Flow.Instructions +
##      Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +

```

```

## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Instructions.Executed + Instructions.Issued + Issue.Slots +
## Control.Flow.Instructions + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + inst_issued1 + inst_issued2 + Grid.X +
## Block.X
##
##
## Step: AIC=-956.44
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Global.Load.Transactions.Per.Request +
## Global.Load.Transactions + Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Instructions.Executed + Instructions.Issued + Issue.Slots +
## Control.Flow.Instructions + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + inst_issued1 + inst_issued2 + Grid.X +
## Block.X
##
##
## Step: AIC=-956.44
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Global.Load.Transactions.Per.Request + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Instructions.Executed + Instructions.Issued + Issue.Slots +
## Control.Flow.Instructions + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + inst_issued1 + inst_issued2 + Grid.X +
## Block.X
##
##
## Step: AIC=-956.44
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Global.Load.Transactions.Per.Request + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +

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```

## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Instructions.Executed + Instructions.Issued + Issue.Slots +
## Control.Flow.Instructions + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + inst_issued1 + inst_issued2 + Grid.X +
## Block.X
##
##
## Df Sum of Sq RSS AIC
## - Issued.Load.Store.Instructions 1 0.000013 1.0210 -958.44
## - Device.Memory.Write.Transactions 1 0.000021 1.0210 -958.44
## - Issued.Control.Flow.Instructions 1 0.000365 1.0213 -958.37
## - L2.Write.Transactions 1 0.000473 1.0214 -958.35
## - Memoryclock 1 0.000682 1.0217 -958.31
## - Global.Store.Transactions 1 0.000695 1.0217 -958.31
## - Executed.Load.Store.Instructions 1 0.000719 1.0217 -958.30
## - Grid.X 1 0.001141 1.0221 -958.22
## - Global.Load.Transactions.Per.Request 1 0.002220 1.0232 -958.02
## - L2 1 0.002780 1.0238 -957.91
## - Executed.Control.Flow.Instructions 1 0.003146 1.0241 -957.84
## - L2.Write.Transactions..L1.write.requests. 1 0.004804 1.0258 -957.52
## - Floating.Point.Operations.Single.Precision. 1 0.004867 1.0258 -957.51
## - Control.Flow.Instructions 1 0.004888 1.0259 -957.51
## - Instructions.per.warp 1 0.006015 1.0270 -957.29
## - Input.Size 1 0.007138 1.0281 -957.08
## <none> 1.0210 -956.44
## - Instructions.Executed 1 0.010826 1.0318 -956.37
## - Bus 1 0.012867 1.0338 -955.99
## - inst_issued1 1 0.014820 1.0358 -955.62
## - Block.X 1 0.018575 1.0395 -954.91
## - Issue.Slots 1 0.027700 1.0487 -953.19
## - Instructions.Issued 1 0.028355 1.0493 -953.07
## - inst_issued2 1 0.029900 1.0509 -952.78
## - Device.Memory.Read.Transactions 1 0.030798 1.0518 -952.62
## - Eligible.Warps.Per.Active.Cycle 1 0.031615 1.0526 -952.46
## - Issue.Slot.Utilization 1 0.031627 1.0526 -952.46
## - Issued.IPC 1 0.035223 1.0562 -951.79
## - L2.Read.Transactions..L1.read.requests. 1 0.040740 1.0617 -950.77
## - FLOP.Efficiency.Peak.Single. 1 0.040917 1.0619 -950.74
## - L2.Read.Transactions 1 0.058649 1.0796 -947.49
## - Global.Load.Transactions 1 0.060501 1.0815 -947.16
## - fb_subp0_read_sectors 1 0.065305 1.0863 -946.29
## - fb_subp0_write_sectors 1 0.069475 1.0904 -945.54
## - fb_subp1_write_sectors 1 0.116352 1.1373 -937.29
## - fb_subp1_read_sectors 1 0.207571 1.2286 -922.17
## - ECC.Transactions 1 0.285605 1.3066 -910.10
##
## Step: AIC=-958.44
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Global.Load.Transactions.Per.Request + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +

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##      L2.Write.Transactions + Issued.Control.Flow.Instructions +
##      Executed.Control.Flow.Instructions + Executed.Load.Store.Instructions +
##      Floating.Point.Operations.Single.Precision. + Instructions.Executed +
##      Instructions.Issued + Issue.Slots + Control.Flow.Instructions +
##      L2.Read.Transactions..L1.read.requests. + L2.Write.Transactions..L1.write.requests. +
##      ECC.Transactions + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##      fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##      fb_subp1_write_sectors + inst_issued1 + inst_issued2 + Grid.X +
##      Block.X
##
##
##              Df Sum of Sq    RSS      AIC
## - Device.Memory.Write.Transactions      1  0.00003 1.0210 -960.43
## - L2.Write.Transactions                  1  0.00047 1.0215 -960.35
## - Memoryclock                           1  0.00067 1.0217 -960.31
## - Global.Store.Transactions              1  0.00070 1.0217 -960.30
## - Executed.Load.Store.Instructions       1  0.00074 1.0217 -960.30
## - Grid.X                                1  0.00115 1.0221 -960.22
## - Global.Load.Transactions.Per.Request   1  0.00221 1.0232 -960.01
## - L2                                     1  0.00293 1.0239 -959.88
## - Executed.Control.Flow.Instructions     1  0.00354 1.0245 -959.76
## - L2.Write.Transactions..L1.write.requests. 1  0.00479 1.0258 -959.52
## - Floating.Point.Operations.Single.Precision. 1  0.00485 1.0258 -959.51
## - Control.Flow.Instructions              1  0.00488 1.0259 -959.50
## - Instructions.per.warp                  1  0.00603 1.0270 -959.29
## - Input.Size                             1  0.00717 1.0282 -959.07
## <none>                                   1  0.01298 1.0340 -957.96
## - Bus                                    1  0.01876 1.0397 -956.87
## - Block.X                               1  0.01958 1.0406 -956.72
## - inst_issued1                          1  0.02402 1.0450 -955.88
## - Issued.Control.Flow.Instructions       1  0.02912 1.0501 -954.93
## - Instructions.Issued                    1  0.02972 1.0507 -954.81
## - inst_issued2                           1  0.03012 1.0511 -954.74
## - Issue.Slot.Utilization                  1  0.03166 1.0527 -954.45
## - Eligible.Warps.Per.Active.Cycle        1  0.03471 1.0557 -953.89
## - Device.Memory.Read.Transactions         1  0.03584 1.0568 -953.68
## - Instructions.Executed                   1  0.04049 1.0615 -952.82
## - FLOP.Efficiency.Peak.Single.            1  0.04091 1.0619 -952.74
## - L2.Read.Transactions..L1.read.requests. 1  0.04172 1.0627 -952.59
## - Global.Load.Transactions                1  0.06145 1.0824 -948.98
## - fb_subp0_read_sectors                  1  0.06640 1.0874 -948.09
## - fb_subp0_write_sectors                  1  0.07369 1.0947 -946.78
## - L2.Read.Transactions                    1  0.07478 1.0958 -946.59
## - fb_subp1_write_sectors                  1  0.11944 1.1404 -938.75
## - fb_subp1_read_sectors                  1  0.21444 1.2354 -923.07
## - ECC.Transactions                       1  0.31667 1.3377 -907.49
##
## Step:  AIC=-960.43
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Global.Load.Transactions.Per.Request + Global.Load.Transactions +
##      Global.Store.Transactions + Device.Memory.Read.Transactions +
##      L2.Read.Transactions + L2.Write.Transactions + Issued.Control.Flow.Instructions +

```

```

## Executed.Control.Flow.Instructions + Executed.Load.Store.Instructions +
## Floating.Point.Operations.Single.Precision. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + Control.Flow.Instructions +
## L2.Read.Transactions..L1.read.requests. + L2.Write.Transactions..L1.write.requests. +
## ECC.Transactions + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + inst_issued1 + inst_issued2 + Grid.X +
## Block.X
##
##
## Df Sum of Sq RSS AIC
## - L2.Write.Transactions 1 0.00047 1.0215 -962.34
## - Memoryclock 1 0.00066 1.0217 -962.31
## - Executed.Load.Store.Instructions 1 0.00074 1.0218 -962.29
## - Global.Store.Transactions 1 0.00075 1.0218 -962.29
## - Grid.X 1 0.00120 1.0222 -962.20
## - Global.Load.Transactions.Per.Request 1 0.00223 1.0232 -962.01
## - L2 1 0.00293 1.0240 -961.87
## - Executed.Control.Flow.Instructions 1 0.00355 1.0246 -961.75
## - L2.Write.Transactions..L1.write.requests. 1 0.00478 1.0258 -961.52
## - Floating.Point.Operations.Single.Precision. 1 0.00485 1.0259 -961.50
## - Control.Flow.Instructions 1 0.00487 1.0259 -961.50
## - Instructions.per.warp 1 0.00600 1.0270 -961.28
## - Input.Size 1 0.00714 1.0282 -961.07
## <none> 1.0210 -960.43
## - Bus 1 0.01300 1.0340 -959.95
## - Block.X 1 0.01875 1.0398 -958.87
## - inst_issued1 1 0.02009 1.0411 -958.61
## - Issued.Control.Flow.Instructions 1 0.02409 1.0451 -957.86
## - Issue.Slots 1 0.02982 1.0509 -956.79
## - Instructions.Issued 1 0.03036 1.0514 -956.69
## - inst_issued2 1 0.03061 1.0516 -956.64
## - Issue.Slot.Utilization 1 0.03164 1.0527 -956.45
## - Eligible.Warps.Per.Active.Cycle 1 0.03189 1.0529 -956.40
## - Issued.IPC 1 0.03583 1.0569 -955.67
## - Device.Memory.Read.Transactions 1 0.03980 1.0608 -954.94
## - Instructions.Executed 1 0.04048 1.0615 -954.81
## - FLOP.Efficiency.Peak.Single. 1 0.04088 1.0619 -954.74
## - L2.Read.Transactions..L1.read.requests. 1 0.04194 1.0630 -954.54
## - Global.Load.Transactions 1 0.06188 1.0829 -950.90
## - fb_subp0_read_sectors 1 0.06704 1.0881 -949.97
## - L2.Read.Transactions 1 0.07506 1.0961 -948.53
## - fb_subp0_write_sectors 1 0.11991 1.1409 -940.67
## - fb_subp1_write_sectors 1 0.13136 1.1524 -938.71
## - fb_subp1_read_sectors 1 0.22496 1.2460 -923.40
## - ECC.Transactions 1 0.31693 1.3379 -909.45
##
## Step: AIC=-962.34
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Global.Load.Transactions.Per.Request + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## L2.Read.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Executed.Load.Store.Instructions +
## Floating.Point.Operations.Single.Precision. + Instructions.Executed +

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```

##      Instructions.Issued + Issue.Slots + Control.Flow.Instructions +
##      L2.Read.Transactions..L1.read.requests. + L2.Write.Transactions..L1.write.requests. +
##      ECC.Transactions + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##      fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##      fb_subp1_write_sectors + inst_issued1 + inst_issued2 + Grid.X +
##      Block.X
##
##
##              Df Sum of Sq    RSS    AIC
## - Memoryclock      1    0.00064 1.0221 -964.22
## - Global.Store.Transactions      1    0.00073 1.0222 -964.20
## - Executed.Load.Store.Instructions      1    0.00082 1.0223 -964.18
## - Grid.X      1    0.00124 1.0227 -964.10
## - Global.Load.Transactions.Per.Request      1    0.00227 1.0238 -963.91
## - L2      1    0.00318 1.0247 -963.73
## - Executed.Control.Flow.Instructions      1    0.00357 1.0251 -963.66
## - Floating.Point.Operations.Single.Precision.      1    0.00466 1.0262 -963.45
## - Control.Flow.Instructions      1    0.00468 1.0262 -963.44
## - L2.Write.Transactions..L1.write.requests.      1    0.00470 1.0262 -963.44
## - Instructions.per.warp      1    0.00578 1.0273 -963.24
## - Input.Size      1    0.00690 1.0284 -963.02
## <none>              1.0215 -962.34
## - Bus      1    0.01255 1.0340 -961.95
## - Block.X      1    0.01890 1.0404 -960.75
## - inst_issued1      1    0.01998 1.0415 -960.54
## - Issued.Control.Flow.Instructions      1    0.02447 1.0460 -959.70
## - Issue.Slots      1    0.02972 1.0512 -958.72
## - Instructions.Issued      1    0.03026 1.0518 -958.62
## - inst_issued2      1    0.03054 1.0520 -958.57
## - Issue.Slot.Utilization      1    0.03200 1.0535 -958.30
## - Eligible.Warps.Per.Active.Cycle      1    0.03236 1.0539 -958.23
## - Issued.IPC      1    0.03644 1.0579 -957.47
## - Device.Memory.Read.Transactions      1    0.03960 1.0611 -956.89
## - FLOP.Efficiency.Peak.Single.      1    0.04088 1.0624 -956.65
## - Instructions.Executed      1    0.04105 1.0626 -956.62
## - L2.Read.Transactions..L1.read.requests.      1    0.04219 1.0637 -956.41
## - Global.Load.Transactions      1    0.06198 1.0835 -952.80
## - fb_subp0_read_sectors      1    0.06741 1.0889 -951.82
## - L2.Read.Transactions      1    0.07535 1.0969 -950.39
## - fb_subp0_write_sectors      1    0.11999 1.1415 -942.57
## - fb_subp1_write_sectors      1    0.13146 1.1530 -940.61
## - fb_subp1_read_sectors      1    0.22542 1.2469 -925.26
## - ECC.Transactions      1    0.32013 1.3416 -910.91
##
## Step:  AIC=-964.22
## trainingSet$Duration ~ L2 + Bus + Input.Size + Issued.IPC + Instructions.per.warp +
##      Issue.Slot.Utilization + Global.Load.Transactions.Per.Request +
##      Global.Load.Transactions + Global.Store.Transactions + Device.Memory.Read.Transactions +
##      L2.Read.Transactions + Issued.Control.Flow.Instructions +
##      Executed.Control.Flow.Instructions + Executed.Load.Store.Instructions +
##      Floating.Point.Operations.Single.Precision. + Instructions.Executed +
##      Instructions.Issued + Issue.Slots + Control.Flow.Instructions +
##      L2.Read.Transactions..L1.read.requests. + L2.Write.Transactions..L1.write.requests. +
##      ECC.Transactions + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##      fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +

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##      fb_subp1_write_sectors + inst_issued1 + inst_issued2 + Grid.X +
##      Block.X
##
##
##              Df Sum of Sq    RSS      AIC
## - Executed.Load.Store.Instructions      1   0.00067 1.0228 -966.09
## - Global.Store.Transactions              1   0.00078 1.0229 -966.07
## - Grid.X                                1   0.00130 1.0234 -965.97
## - Global.Load.Transactions.Per.Request   1   0.00279 1.0249 -965.69
## - Executed.Control.Flow.Instructions     1   0.00332 1.0254 -965.58
## - Floating.Point.Operations.Single.Precision. 1   0.00448 1.0266 -965.36
## - Control.Flow.Instructions              1   0.00450 1.0266 -965.36
## - L2.Write.Transactions..L1.write.requests. 1   0.00451 1.0266 -965.36
## - Instructions.per.warp                  1   0.00563 1.0278 -965.14
## - Input.Size                             1   0.00671 1.0289 -964.94
## - L2                                      1   0.00709 1.0292 -964.86
## <none>                                   1   0.00709 1.0292 -964.86
## - Bus                                    1   0.01202 1.0341 -963.93
## - inst_issued1                           1   0.02081 1.0429 -962.27
## - Issued.Control.Flow.Instructions        1   0.02546 1.0476 -961.40
## - Block.X                                1   0.02589 1.0480 -961.32
## - Issue.Slots                            1   0.03078 1.0529 -960.40
## - Instructions.Issued                     1   0.03129 1.0534 -960.31
## - inst_issued2                           1   0.03151 1.0536 -960.27
## - Issue.Slot.Utilization                  1   0.03385 1.0560 -959.83
## - Device.Memory.Read.Transactions          1   0.03928 1.0614 -958.83
## - Instructions.Executed                   1   0.04134 1.0635 -958.45
## - Issued.IPC                             1   0.04144 1.0636 -958.43
## - Eligible.Warps.Per.Active.Cycle         1   0.04180 1.0639 -958.36
## - L2.Read.Transactions..L1.read.requests. 1   0.04312 1.0653 -958.12
## - FLOP.Efficiency.Peak.Single.            1   0.04343 1.0656 -958.06
## - Global.Load.Transactions                 1   0.06418 1.0863 -954.28
## - fb_subp0_read_sectors                   1   0.06816 1.0903 -953.57
## - L2.Read.Transactions                    1   0.07617 1.0983 -952.13
## - fb_subp0_write_sectors                  1   0.12189 1.1440 -944.14
## - fb_subp1_write_sectors                  1   0.13402 1.1562 -942.07
## - fb_subp1_read_sectors                   1   0.22688 1.2490 -926.93
## - ECC.Transactions                        1   0.33690 1.3590 -910.38
##
## Step: AIC=-966.09
## trainingSet$Duration ~ L2 + Bus + Input.Size + Issued.IPC + Instructions.per.warp +
##      Issue.Slot.Utilization + Global.Load.Transactions.Per.Request +
##      Global.Load.Transactions + Global.Store.Transactions + Device.Memory.Read.Transactions +
##      L2.Read.Transactions + Issued.Control.Flow.Instructions +
##      Executed.Control.Flow.Instructions + Floating.Point.Operations.Single.Precision. +
##      Instructions.Executed + Instructions.Issued + Issue.Slots +
##      Control.Flow.Instructions + L2.Read.Transactions..L1.read.requests. +
##      L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
##      Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##      fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##      fb_subp1_write_sectors + inst_issued1 + inst_issued2 + Grid.X +
##      Block.X
##
##
##              Df Sum of Sq    RSS      AIC
## - Global.Store.Transactions              1   0.00068 1.0235 -967.96

```

```

## - Grid.X 1 0.00107 1.0239 -967.89
## - Global.Load.Transactions.Per.Request 1 0.00236 1.0252 -967.64
## - Floating.Point.Operations.Single.Precision. 1 0.00423 1.0270 -967.28
## - Control.Flow.Instructions 1 0.00423 1.0270 -967.28
## - L2.Write.Transactions..L1.write.requests. 1 0.00424 1.0271 -967.28
## - Instructions.per.warp 1 0.00584 1.0287 -966.97
## - Input.Size 1 0.00702 1.0298 -966.75
## - L2 1 0.00735 1.0302 -966.69
## - Executed.Control.Flow.Instructions 1 0.00830 1.0311 -966.51
## <none> 1.0228 -966.09
## - Bus 1 0.01180 1.0346 -965.84
## - inst_issued1 1 0.02084 1.0436 -964.14
## - Block.X 1 0.02559 1.0484 -963.25
## - Issued.Control.Flow.Instructions 1 0.02608 1.0489 -963.16
## - Issue.Slots 1 0.03081 1.0536 -962.27
## - Instructions.Issued 1 0.03132 1.0541 -962.18
## - inst_issued2 1 0.03154 1.0543 -962.14
## - Issue.Slot.Utilization 1 0.03322 1.0560 -961.83
## - Device.Memory.Read.Transactions 1 0.03889 1.0617 -960.78
## - Eligible.Warps.Per.Active.Cycle 1 0.04116 1.0640 -960.36
## - Issued.IPC 1 0.04155 1.0644 -960.29
## - Instructions.Executed 1 0.04161 1.0644 -960.28
## - FLOP.Efficiency.Peak.Single. 1 0.04276 1.0656 -960.06
## - L2.Read.Transactions..L1.read.requests. 1 0.04351 1.0663 -959.93
## - Global.Load.Transactions 1 0.06367 1.0865 -956.25
## - fb_subp0_read_sectors 1 0.06822 1.0910 -955.43
## - L2.Read.Transactions 1 0.07620 1.0990 -954.01
## - fb_subp0_write_sectors 1 0.12136 1.1442 -946.11
## - fb_subp1_write_sectors 1 0.13347 1.1563 -944.05
## - fb_subp1_read_sectors 1 0.22632 1.2491 -928.91
## - ECC.Transactions 1 0.33645 1.3593 -912.35
##
## Step: AIC=-967.96
## trainingSet$Duration ~ L2 + Bus + Input.Size + Issued.IPC + Instructions.per.warp +
## Issue.Slot.Utilization + Global.Load.Transactions.Per.Request +
## Global.Load.Transactions + Device.Memory.Read.Transactions +
## L2.Read.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Floating.Point.Operations.Single.Precision. +
## Instructions.Executed + Instructions.Issued + Issue.Slots +
## Control.Flow.Instructions + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + inst_issued1 + inst_issued2 + Grid.X +
## Block.X
##
## Df Sum of Sq RSS AIC
## - Grid.X 1 0.00073 1.0242 -969.82
## - Global.Load.Transactions.Per.Request 1 0.00177 1.0252 -969.62
## - Floating.Point.Operations.Single.Precision. 1 0.00432 1.0278 -969.14
## - Control.Flow.Instructions 1 0.00432 1.0278 -969.13
## - L2.Write.Transactions..L1.write.requests. 1 0.00438 1.0279 -969.12
## - Instructions.per.warp 1 0.00571 1.0292 -968.87
## - L2 1 0.00711 1.0306 -968.60

```

```

## - Input.Size 1 0.00742 1.0309 -968.55
## - Executed.Control.Flow.Instructions 1 0.00822 1.0317 -968.39
## <none> 1.0235 -967.96
## - Bus 1 0.01199 1.0355 -967.68
## - inst_issued1 1 0.02025 1.0437 -966.12
## - Block.X 1 0.02514 1.0486 -965.20
## - Issued.Control.Flow.Instructions 1 0.02609 1.0496 -965.03
## - Issue.Slots 1 0.03018 1.0537 -964.27
## - Instructions.Issued 1 0.03069 1.0542 -964.17
## - inst_issued2 1 0.03093 1.0544 -964.12
## - Issue.Slot.Utilization 1 0.03258 1.0561 -963.82
## - Device.Memory.Read.Transactions 1 0.04002 1.0635 -962.44
## - Eligible.Warps.Per.Active.Cycle 1 0.04049 1.0640 -962.36
## - Issued.IPC 1 0.04092 1.0644 -962.28
## - Instructions.Executed 1 0.04146 1.0649 -962.18
## - FLOP.Efficiency.Peak.Single. 1 0.04209 1.0656 -962.06
## - L2.Read.Transactions..L1.read.requests. 1 0.04309 1.0666 -961.88
## - fb_subp0_read_sectors 1 0.06888 1.0924 -957.20
## - L2.Read.Transactions 1 0.07564 1.0991 -955.98
## - Global.Load.Transactions 1 0.08664 1.1101 -954.03
## - fb_subp0_write_sectors 1 0.12292 1.1464 -947.73
## - fb_subp1_write_sectors 1 0.13509 1.1586 -945.66
## - fb_subp1_read_sectors 1 0.23191 1.2554 -929.93
## - ECC.Transactions 1 0.34159 1.3651 -913.51
##
## Step: AIC=-969.82
## trainingSet$Duration ~ L2 + Bus + Input.Size + Issued.IPC + Instructions.per.warp +
## Issue.Slot.Utilization + Global.Load.Transactions.Per.Request +
## Global.Load.Transactions + Device.Memory.Read.Transactions +
## L2.Read.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Floating.Point.Operations.Single.Precision. +
## Instructions.Executed + Instructions.Issued + Issue.Slots +
## Control.Flow.Instructions + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + inst_issued1 + inst_issued2 + Block.X
##
##
## Df Sum of Sq RSS AIC
## - Global.Load.Transactions.Per.Request 1 0.00139 1.0256 -971.56
## - Floating.Point.Operations.Single.Precision. 1 0.00438 1.0286 -970.98
## - Control.Flow.Instructions 1 0.00438 1.0286 -970.98
## - L2.Write.Transactions..L1.write.requests. 1 0.00444 1.0287 -970.97
## - Instructions.per.warp 1 0.00562 1.0298 -970.75
## - L2 1 0.00715 1.0314 -970.46
## - Input.Size 1 0.00746 1.0317 -970.40
## - Executed.Control.Flow.Instructions 1 0.00828 1.0325 -970.24
## <none> 1.0242 -969.82
## - Bus 1 0.01202 1.0362 -969.53
## - inst_issued1 1 0.02057 1.0448 -967.92
## - Block.X 1 0.02542 1.0496 -967.01
## - Issued.Control.Flow.Instructions 1 0.02576 1.0500 -966.95
## - Issue.Slots 1 0.03050 1.0547 -966.07
## - Instructions.Issued 1 0.03099 1.0552 -965.98

```

```

## - inst_issued2          1    0.03119 1.0554 -965.94
## - Issue.Slot.Utilization 1    0.03227 1.0565 -965.74
## - Device.Memory.Read.Transactions 1    0.03975 1.0640 -964.36
## - Issued.IPC          1    0.04058 1.0648 -964.21
## - Eligible.Warps.Per.Active.Cycle 1    0.04066 1.0649 -964.19
## - Instructions.Executed 1    0.04112 1.0653 -964.11
## - FLOP.Efficiency.Peak.Single. 1    0.04175 1.0660 -963.99
## - L2.Read.Transactions..L1.read.requests. 1    0.04314 1.0674 -963.74
## - fb_subp0_read_sectors 1    0.06854 1.0928 -959.12
## - L2.Read.Transactions 1    0.07570 1.0999 -957.84
## - Global.Load.Transactions 1    0.08825 1.1125 -955.62
## - fb_subp0_write_sectors 1    0.12241 1.1466 -949.69
## - fb_subp1_write_sectors 1    0.13457 1.1588 -947.63
## - fb_subp1_read_sectors 1    0.23118 1.2554 -931.93
## - ECC.Transactions      1    0.34093 1.3652 -915.50
##
## Step: AIC=-971.56
## trainingSet$Duration ~ L2 + Bus + Input.Size + Issued.IPC + Instructions.per.warp +
## Issue.Slot.Utilization + Global.Load.Transactions + Device.Memory.Read.Transactions +
## L2.Read.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Floating.Point.Operations.Single.Precision. +
## Instructions.Executed + Instructions.Issued + Issue.Slots +
## Control.Flow.Instructions + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + inst_issued1 + inst_issued2 + Block.X
##
##
## Df Sum of Sq RSS AIC
## - Floating.Point.Operations.Single.Precision. 1 0.00414 1.0297 -972.77
## - Control.Flow.Instructions 1 0.00414 1.0297 -972.77
## - L2.Write.Transactions..L1.write.requests. 1 0.00419 1.0298 -972.76
## - Instructions.per.warp 1 0.00525 1.0309 -972.56
## - L2 1 0.00584 1.0314 -972.44
## - Input.Size 1 0.00701 1.0326 -972.22
## - Executed.Control.Flow.Instructions 1 0.00777 1.0334 -972.08
## <none> 1.0256 -971.56
## - Bus 1 0.01506 1.0407 -970.70
## - inst_issued1 1 0.02060 1.0462 -969.66
## - Issued.Control.Flow.Instructions 1 0.02845 1.0540 -968.19
## - Issue.Slots 1 0.03069 1.0563 -967.78
## - Issue.Slot.Utilization 1 0.03089 1.0565 -967.74
## - Instructions.Issued 1 0.03121 1.0568 -967.68
## - inst_issued2 1 0.03147 1.0571 -967.63
## - Block.X 1 0.03715 1.0628 -966.58
## - Device.Memory.Read.Transactions 1 0.03938 1.0650 -966.17
## - Issued.IPC 1 0.04238 1.0680 -965.62
## - FLOP.Efficiency.Peak.Single. 1 0.04290 1.0685 -965.52
## - Instructions.Executed 1 0.04370 1.0693 -965.38
## - L2.Read.Transactions..L1.read.requests. 1 0.04497 1.0706 -965.14
## - Eligible.Warps.Per.Active.Cycle 1 0.04989 1.0755 -964.25
## - fb_subp0_read_sectors 1 0.06965 1.0953 -960.68
## - L2.Read.Transactions 1 0.07673 1.1023 -959.41
## - Global.Load.Transactions 1 0.08690 1.1125 -957.62

```

```

## - fb_subp0_write_sectors          1    0.12275 1.1483 -951.40
## - fb_subp1_write_sectors          1    0.13491 1.1605 -949.33
## - fb_subp1_read_sectors           1    0.23139 1.2570 -933.68
## - ECC.Transactions                 1    0.34024 1.3658 -917.40
##
## Step: AIC=-972.77
## trainingSet$Duration ~ L2 + Bus + Input.Size + Issued.IPC + Instructions.per.warp +
##   Issue.Slot.Utilization + Global.Load.Transactions + Device.Memory.Read.Transactions +
##   L2.Read.Transactions + Issued.Control.Flow.Instructions +
##   Executed.Control.Flow.Instructions + Instructions.Executed +
##   Instructions.Issued + Issue.Slots + Control.Flow.Instructions +
##   L2.Read.Transactions..L1.read.requests. + L2.Write.Transactions..L1.write.requests. +
##   ECC.Transactions + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##   fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##   fb_subp1_write_sectors + inst_issued1 + inst_issued2 + Block.X
##
##                                     Df Sum of Sq    RSS      AIC
## - Instructions.per.warp              1    0.00398 1.0337 -974.01
## - L2.Write.Transactions..L1.write.requests. 1    0.00450 1.0342 -973.91
## - Input.Size                        1    0.00561 1.0354 -973.70
## - L2                                1    0.00655 1.0363 -973.52
## - Executed.Control.Flow.Instructions 1    0.00790 1.0376 -973.27
## <none>                                1    0.0297 -972.77
## - Bus                              1    0.01304 1.0428 -972.30
## - inst_issued1                     1    0.02039 1.0501 -970.92
## - Issued.Control.Flow.Instructions 1    0.03028 1.0600 -969.09
## - Issue.Slots                      1    0.03044 1.0602 -969.06
## - Instructions.Issued               1    0.03096 1.0607 -968.96
## - Issue.Slot.Utilization            1    0.03113 1.0609 -968.93
## - inst_issued2                     1    0.03124 1.0610 -968.91
## - Block.X                          1    0.03767 1.0674 -967.72
## - Device.Memory.Read.Transactions 1    0.03891 1.0687 -967.50
## - FLOP.Efficiency.Peak.Single.     1    0.04112 1.0709 -967.09
## - Control.Flow.Instructions         1    0.04257 1.0723 -966.83
## - Issued.IPC                       1    0.04448 1.0742 -966.48
## - Instructions.Executed             1    0.04541 1.0752 -966.31
## - L2.Read.Transactions..L1.read.requests. 1    0.04547 1.0752 -966.30
## - Eligible.Warps.Per.Active.Cycle 1    0.05240 1.0821 -965.04
## - fb_subp0_read_sectors             1    0.06905 1.0988 -962.05
## - L2.Read.Transactions              1    0.07646 1.1062 -960.73
## - Global.Load.Transactions          1    0.09034 1.1201 -958.28
## - fb_subp0_write_sectors            1    0.12288 1.1526 -952.67
## - fb_subp1_write_sectors            1    0.13504 1.1648 -950.61
## - fb_subp1_read_sectors             1    0.23051 1.2603 -935.17
## - ECC.Transactions                  1    0.34970 1.3794 -917.46
##
## Step: AIC=-974.01
## trainingSet$Duration ~ L2 + Bus + Input.Size + Issued.IPC + Issue.Slot.Utilization +
##   Global.Load.Transactions + Device.Memory.Read.Transactions +
##   L2.Read.Transactions + Issued.Control.Flow.Instructions +
##   Executed.Control.Flow.Instructions + Instructions.Executed +
##   Instructions.Issued + Issue.Slots + Control.Flow.Instructions +
##   L2.Read.Transactions..L1.read.requests. + L2.Write.Transactions..L1.write.requests. +
##   ECC.Transactions + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +

```

```

##      fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##      fb_subp1_write_sectors + inst_issued1 + inst_issued2 + Block.X
##
##
##              Df Sum of Sq    RSS    AIC
## - L2.Write.Transactions..L1.write.requests.  1    0.00409 1.0378 -975.23
## - L2                                           1    0.00625 1.0400 -974.83
## - Executed.Control.Flow.Instructions          1    0.01035 1.0441 -974.06
## <none>                                         1.0337 -974.01
## - Bus                                           1    0.01364 1.0474 -973.44
## - inst_issued1                                1    0.01957 1.0533 -972.33
## - Issue.Slots                                 1    0.02948 1.0632 -970.50
## - Instructions.Issued                         1    0.03002 1.0637 -970.40
## - inst_issued2                                1    0.03037 1.0641 -970.33
## - Issue.Slot.Utilization                      1    0.03290 1.0666 -969.87
## - Input.Size                                  1    0.03344 1.0672 -969.77
## - Issued.Control.Flow.Instructions            1    0.03494 1.0687 -969.49
## - Block.X                                     1    0.03578 1.0695 -969.34
## - FLOP.Efficiency.Peak.Single.                1    0.03717 1.0709 -969.08
## - Device.Memory.Read.Transactions              1    0.03764 1.0714 -969.00
## - L2.Read.Transactions..L1.read.requests.     1    0.04673 1.0804 -967.34
## - Issued.IPC                                  1    0.04895 1.0827 -966.94
## - Eligible.Warps.Per.Active.Cycle             1    0.05472 1.0884 -965.90
## - Control.Flow.Instructions                   1    0.05873 1.0925 -965.18
## - Instructions.Executed                       1    0.06047 1.0942 -964.87
## - fb_subp0_read_sectors                       1    0.07295 1.1067 -962.64
## - L2.Read.Transactions                        1    0.07764 1.1114 -961.81
## - Global.Load.Transactions                    1    0.09126 1.1250 -959.43
## - fb_subp0_write_sectors                      1    0.12471 1.1584 -953.68
## - fb_subp1_write_sectors                      1    0.13704 1.1708 -951.61
## - fb_subp1_read_sectors                       1    0.23421 1.2679 -935.98
## - ECC.Transactions                            1    0.35187 1.3856 -918.59
##
## Step:  AIC=-975.23
## trainingSet$Duration ~ L2 + Bus + Input.Size + Issued.IPC + Issue.Slot.Utilization +
##      Global.Load.Transactions + Device.Memory.Read.Transactions +
##      L2.Read.Transactions + Issued.Control.Flow.Instructions +
##      Executed.Control.Flow.Instructions + Instructions.Executed +
##      Instructions.Issued + Issue.Slots + Control.Flow.Instructions +
##      L2.Read.Transactions..L1.read.requests. + ECC.Transactions +
##      Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##      fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##      fb_subp1_write_sectors + inst_issued1 + inst_issued2 + Block.X
##
##
##              Df Sum of Sq    RSS    AIC
## - L2                                           1    0.00665 1.0445 -975.98
## <none>                                         1.0378 -975.23
## - Executed.Control.Flow.Instructions          1    0.01082 1.0486 -975.20
## - Bus                                           1    0.01392 1.0517 -974.62
## - inst_issued1                                1    0.01997 1.0578 -973.50
## - Issue.Slots                                 1    0.03066 1.0685 -971.53
## - Instructions.Issued                         1    0.03133 1.0691 -971.41
## - inst_issued2                                1    0.03190 1.0697 -971.30
## - Device.Memory.Read.Transactions              1    0.03414 1.0720 -970.89
## - Issue.Slot.Utilization                      1    0.03654 1.0743 -970.45

```

```

## - Block.X 1 0.03930 1.0771 -969.95
## - Issued.Control.Flow.Instructions 1 0.04018 1.0780 -969.79
## - FLOP.Efficiency.Peak.Single. 1 0.04129 1.0791 -969.59
## - Issued.IPC 1 0.05429 1.0921 -967.24
## - L2.Read.Transactions..L1.read.requests. 1 0.05490 1.0927 -967.13
## - Eligible.Warps.Per.Active.Cycle 1 0.06018 1.0980 -966.19
## - Control.Flow.Instructions 1 0.06316 1.1010 -965.66
## - Instructions.Executed 1 0.06683 1.1046 -965.00
## - fb_subp0_read_sectors 1 0.07780 1.1156 -963.07
## - Global.Load.Transactions 1 0.08743 1.1253 -961.38
## - L2.Read.Transactions 1 0.08748 1.1253 -961.37
## - Input.Size 1 0.09998 1.1378 -959.21
## - fb_subp0_write_sectors 1 0.12754 1.1654 -954.52
## - fb_subp1_write_sectors 1 0.14042 1.1782 -952.36
## - fb_subp1_read_sectors 1 0.23122 1.2690 -937.81
## - ECC.Transactions 1 0.34814 1.3860 -920.54
##
## Step: AIC=-975.98
## trainingSet$Duration ~ Bus + Input.Size + Issued.IPC + Issue.Slot.Utilization +
## Global.Load.Transactions + Device.Memory.Read.Transactions +
## L2.Read.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Instructions.Executed +
## Instructions.Issued + Issue.Slots + Control.Flow.Instructions +
## L2.Read.Transactions..L1.read.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + inst_issued1 + inst_issued2 + Block.X
##
## Df Sum of Sq RSS AIC
## <none> 1.0445 -975.98
## - Executed.Control.Flow.Instructions 1 0.01734 1.0618 -974.76
## - inst_issued1 1 0.02165 1.0661 -973.96
## - Issue.Slot.Utilization 1 0.03004 1.0745 -972.42
## - Block.X 1 0.03276 1.0772 -971.93
## - Issue.Slots 1 0.03298 1.0775 -971.89
## - Instructions.Issued 1 0.03367 1.0781 -971.76
## - inst_issued2 1 0.03420 1.0787 -971.67
## - FLOP.Efficiency.Peak.Single. 1 0.03505 1.0795 -971.51
## - Issued.Control.Flow.Instructions 1 0.03771 1.0822 -971.03
## - Device.Memory.Read.Transactions 1 0.03902 1.0835 -970.79
## - Issued.IPC 1 0.04951 1.0940 -968.91
## - L2.Read.Transactions..L1.read.requests. 1 0.05589 1.1004 -967.77
## - Eligible.Warps.Per.Active.Cycle 1 0.05905 1.1035 -967.20
## - Control.Flow.Instructions 1 0.06196 1.1064 -966.69
## - Instructions.Executed 1 0.06493 1.1094 -966.16
## - fb_subp0_read_sectors 1 0.07899 1.1235 -963.69
## - Global.Load.Transactions 1 0.08172 1.1262 -963.22
## - L2.Read.Transactions 1 0.08893 1.1334 -961.97
## - Input.Size 1 0.11331 1.1578 -957.80
## - fb_subp0_write_sectors 1 0.14413 1.1886 -952.65
## - fb_subp1_write_sectors 1 0.15815 1.2026 -950.35
## - Bus 1 0.21128 1.2557 -941.88
## - fb_subp1_read_sectors 1 0.23933 1.2838 -937.54
## - ECC.Transactions 1 0.34259 1.3871 -922.38

```

```

## Start: AIC=-945.75
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
## Control.Flow.Instructions + Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + warps_launched + threads_launched +
## inst_executed + inst_issued1 + inst_issued2 + gld_inst_32bit +
## gst_inst_32bit + gld_request + gst_request + Grid.X + Block.X
##
##
## Step: AIC=-945.75
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
## Control.Flow.Instructions + Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + warps_launched + threads_launched +
## inst_executed + inst_issued1 + inst_issued2 + gld_inst_32bit +
## gst_inst_32bit + gld_request + gst_request + Grid.X
##
##
## Step: AIC=-945.75
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +

```



```

## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
## Control.Flow.Instructions + Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + warps_launched + threads_launched +
## inst_executed + inst_issued1 + inst_issued2 + gld_inst_32bit +
## gst_inst_32bit + gld_request + Grid.X
##
##
## Step: AIC=-945.75
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
## Control.Flow.Instructions + Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + warps_launched + threads_launched +
## inst_executed + inst_issued1 + inst_issued2 + gld_inst_32bit +
## gst_inst_32bit + Grid.X
##
##
## Step: AIC=-945.75
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
## Control.Flow.Instructions + Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + warps_launched + threads_launched +
## inst_executed + inst_issued1 + inst_issued2 + gld_inst_32bit +
## Grid.X

```

```

##
##
## Step: AIC=-945.75
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
## Control.Flow.Instructions + Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + warps_launched + threads_launched +
## inst_executed + inst_issued1 + inst_issued2 + Grid.X
##
##
## Step: AIC=-945.75
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
## Control.Flow.Instructions + Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + warps_launched + threads_launched +
## inst_issued1 + inst_issued2 + Grid.X
##
##
## Step: AIC=-945.75
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +

```

```

## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
## Control.Flow.Instructions + Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + warps_launched + inst_issued1 +
## inst_issued2 + Grid.X
##
##
## Step: AIC=-945.75
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + Control.Flow.Instructions +
## Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + warps_launched + inst_issued1 +
## inst_issued2 + Grid.X
##
##
## Step: AIC=-945.75
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Instructions.Executed + Instructions.Issued + Issue.Slots +
## Control.Flow.Instructions + Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + warps_launched + inst_issued1 +
## inst_issued2 + Grid.X
##
##
## Step: AIC=-945.75
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +

```

```

## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Instructions.Executed +
## Instructions.Issued + Issue.Slots + Control.Flow.Instructions +
## Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + warps_launched + inst_issued1 +
## inst_issued2 + Grid.X
##
##
## Step: AIC=-945.75
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Shared.Load.Transactions +
## Shared.Store.Transactions + Global.Load.Transactions + Global.Store.Transactions +
## Device.Memory.Read.Transactions + Device.Memory.Write.Transactions +
## L2.Read.Transactions + L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Instructions.Executed +
## Instructions.Issued + Issue.Slots + Control.Flow.Instructions +
## Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + warps_launched + inst_issued1 +
## inst_issued2 + Grid.X
##
##
## Step: AIC=-945.75
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Shared.Load.Transactions +
## Shared.Store.Transactions + Global.Load.Transactions + Global.Store.Transactions +
## Device.Memory.Read.Transactions + Device.Memory.Write.Transactions +
## L2.Read.Transactions + L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Instructions.Executed +
## Instructions.Issued + Issue.Slots + Control.Flow.Instructions +
## Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + warps_launched + inst_issued1 +
## inst_issued2 + Grid.X

```

```

##
##
## - Device.Memory.Write.Transactions      1  0.00000 1.7094 -947.75
## - Issue.Slot.Utilization                 1  0.00007 1.7095 -947.74
## - Grid.X                                1  0.00017 1.7096 -947.73
## - Instructions.per.warp                  1  0.00018 1.7096 -947.73
## - Input.Size                             1  0.00020 1.7096 -947.73
## - L2                                     1  0.00023 1.7097 -947.72
## - Issued.Load.Store.Instructions          1  0.00111 1.7106 -947.61
## - warps_launched                        1  0.00113 1.7106 -947.61
## - FLOP.Efficiency.Peak.Single.           1  0.00116 1.7106 -947.61
## - Shared.Load.Transactions               1  0.00122 1.7107 -947.60
## - Shared.Store.Transactions              1  0.00123 1.7107 -947.60
## - Global.Load.Transactions               1  0.00124 1.7107 -947.60
## - Instructions.Executed                  1  0.00128 1.7107 -947.59
## - Misc.Instructions                      1  0.00130 1.7108 -947.59
## - inst_issued2                          1  0.00149 1.7109 -947.56
## - Instructions.Issued                    1  0.00149 1.7109 -947.56
## - Issue.Slots                           1  0.00149 1.7109 -947.56
## - Bus                                    1  0.00251 1.7120 -947.44
## - Memoryclock                           1  0.00384 1.7133 -947.27
## - Issued.IPC                            1  0.00511 1.7146 -947.12
## - fb_subp0_write_sectors                 1  0.00726 1.7167 -946.85
## - L2.Read.Transactions..L1.read.requests. 1  0.00845 1.7179 -946.70
## - Shared.Memory.Load.Transactions.Per.Request 1  0.00911 1.7186 -946.62
## - Global.Load.Transactions.Per.Request    1  0.00911 1.7186 -946.62
## - Shared.Memory.Store.Transactions.Per.Request 1  0.00911 1.7186 -946.62
## - Eligible.Warps.Per.Active.Cycle        1  0.01382 1.7233 -946.04
## <none>                                  1.7094 -945.75
## - Executed.Load.Store.Instructions        1  0.02028 1.7297 -945.24
## - fb_subp1_write_sectors                 1  0.02669 1.7361 -944.45
## - Executed.Control.Flow.Instructions      1  0.03065 1.7401 -943.97
## - fb_subp1_read_sectors                  1  0.04484 1.7543 -942.24
## - inst_issued1                           1  0.06341 1.7729 -939.99
## - L2.Write.Transactions..L1.write.requests. 1  0.06771 1.7772 -939.48
## - ECC.Transactions                       1  0.09472 1.8042 -936.26
## - L2.Read.Transactions                   1  0.13830 1.8478 -931.18
## - Control.Flow.Instructions               1  0.16215 1.8716 -928.45
## - fb_subp0_read_sectors                   1  0.24397 1.9534 -919.33
## - Device.Memory.Read.Transactions         1  0.29269 2.0021 -914.09
## - L2.Write.Transactions                   1  0.35218 2.0616 -907.85
## - Global.Store.Transactions               1  0.43372 2.1432 -899.59
## - Issued.Control.Flow.Instructions        1  0.44898 2.1584 -898.08
##
## Step:  AIC=-947.75
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Input.Size +
##   Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##   Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##   Global.Load.Transactions.Per.Request + Shared.Load.Transactions +
##   Shared.Store.Transactions + Global.Load.Transactions + Global.Store.Transactions +
##   Device.Memory.Read.Transactions + L2.Read.Transactions +
##   L2.Write.Transactions + Issued.Control.Flow.Instructions +
##   Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##   Executed.Load.Store.Instructions + Instructions.Executed +

```

```

##      Instructions.Issued + Issue.Slots + Control.Flow.Instructions +
##      Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
##      L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
##      Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##      fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##      fb_subp1_write_sectors + warps_launched + inst_issued1 +
##      inst_issued2 + Grid.X
##
##
##              Df Sum of Sq    RSS    AIC
## - Issue.Slot.Utilization      1  0.00007 1.7095 -949.74
## - Grid.X                      1  0.00017 1.7096 -949.73
## - Instructions.per.warp        1  0.00018 1.7096 -949.73
## - Input.Size                  1  0.00020 1.7096 -949.73
## - L2                          1  0.00023 1.7097 -949.72
## - warps_launched              1  0.00115 1.7106 -949.61
## - FLOP.Efficiency.Peak.Single. 1  0.00116 1.7106 -949.61
## - Issued.Load.Store.Instructions 1  0.00119 1.7107 -949.60
## - Shared.Load.Transactions      1  0.00124 1.7107 -949.60
## - Shared.Store.Transactions     1  0.00125 1.7107 -949.59
## - Global.Load.Transactions      1  0.00126 1.7107 -949.59
## - Instructions.Executed         1  0.00131 1.7108 -949.59
## - Misc.Instructions            1  0.00133 1.7108 -949.58
## - inst_issued2                 1  0.00173 1.7112 -949.54
## - Instructions.Issued           1  0.00173 1.7112 -949.54
## - Issue.Slots                  1  0.00173 1.7112 -949.54
## - Bus                          1  0.00254 1.7120 -949.43
## - Memoryclock                  1  0.00393 1.7134 -949.26
## - Issued.IPC                   1  0.00512 1.7146 -949.11
## - L2.Read.Transactions..L1.read.requests. 1  0.00854 1.7180 -948.69
## - Shared.Memory.Load.Transactions.Per.Request 1  0.00926 1.7187 -948.60
## - Global.Load.Transactions.Per.Request 1  0.00927 1.7187 -948.60
## - Shared.Memory.Store.Transactions.Per.Request 1  0.00927 1.7187 -948.60
## - Eligible.Warps.Per.Active.Cycle 1  0.01382 1.7233 -948.04
## <none>                        1  1.7094 -947.75
## - Executed.Load.Store.Instructions 1  0.02186 1.7313 -947.04
## - fb_subp1_write_sectors        1  0.02735 1.7368 -946.37
## - fb_subp0_write_sectors        1  0.02939 1.7389 -946.12
## - Executed.Control.Flow.Instructions 1  0.03246 1.7419 -945.74
## - fb_subp1_read_sectors         1  0.04538 1.7548 -944.17
## - inst_issued1                  1  0.06369 1.7731 -941.96
## - ECC.Transactions              1  0.09599 1.8054 -938.11
## - L2.Write.Transactions..L1.write.requests. 1  0.13152 1.8410 -933.96
## - L2.Read.Transactions          1  0.13874 1.8482 -933.13
## - Control.Flow.Instructions     1  0.16217 1.8716 -930.45
## - fb_subp0_read_sectors         1  0.24588 1.9553 -921.13
## - Device.Memory.Read.Transactions 1  0.29771 2.0072 -915.55
## - L2.Write.Transactions         1  0.35367 2.0631 -909.70
## - Issued.Control.Flow.Instructions 1  0.45637 2.1658 -899.35
## - Global.Store.Transactions     1  0.46320 2.1726 -898.68
##
## Step:  AIC=-949.74
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Input.Size +
##      Issued.IPC + Instructions.per.warp + Shared.Memory.Load.Transactions.Per.Request +
##      Shared.Memory.Store.Transactions.Per.Request + Global.Load.Transactions.Per.Request +

```

```

## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## L2.Read.Transactions + L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Instructions.Executed +
## Instructions.Issued + Issue.Slots + Control.Flow.Instructions +
## Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + warps_launched + inst_issued1 +
## inst_issued2 + Grid.X
##
##
## Df Sum of Sq RSS AIC
## - L2 1 0.00040 1.7099 -951.69
## - Grid.X 1 0.00059 1.7101 -951.67
## - Instructions.per.warp 1 0.00061 1.7101 -951.67
## - Input.Size 1 0.00066 1.7102 -951.66
## - warps_launched 1 0.00113 1.7107 -951.60
## - Shared.Load.Transactions 1 0.00122 1.7107 -951.59
## - Shared.Store.Transactions 1 0.00123 1.7107 -951.59
## - Issued.Load.Store.Instructions 1 0.00123 1.7108 -951.59
## - Global.Load.Transactions 1 0.00124 1.7108 -951.59
## - Instructions.Executed 1 0.00129 1.7108 -951.58
## - Misc.Instructions 1 0.00131 1.7108 -951.58
## - inst_issued2 1 0.00168 1.7112 -951.53
## - Instructions.Issued 1 0.00169 1.7112 -951.53
## - Issue.Slots 1 0.00169 1.7112 -951.53
## - FLOP.Efficiency.Peak.Single. 1 0.00181 1.7113 -951.52
## - Bus 1 0.00254 1.7121 -951.43
## - Memoryclock 1 0.00387 1.7134 -951.26
## - L2.Read.Transactions..L1.read.requests. 1 0.00849 1.7180 -950.69
## - Shared.Memory.Load.Transactions.Per.Request 1 0.00964 1.7192 -950.54
## - Global.Load.Transactions.Per.Request 1 0.00964 1.7192 -950.54
## - Shared.Memory.Store.Transactions.Per.Request 1 0.00964 1.7192 -950.54
## - Eligible.Warps.Per.Active.Cycle 1 0.01413 1.7236 -949.99
## <none> 1.7095 -949.74
## - Executed.Load.Store.Instructions 1 0.02181 1.7313 -949.04
## - fb_subp1_write_sectors 1 0.02728 1.7368 -948.37
## - fb_subp0_write_sectors 1 0.02932 1.7389 -948.12
## - Executed.Control.Flow.Instructions 1 0.03265 1.7422 -947.71
## - fb_subp1_read_sectors 1 0.04560 1.7551 -946.13
## - Issued.IPC 1 0.04893 1.7585 -945.73
## - inst_issued1 1 0.06388 1.7734 -943.93
## - ECC.Transactions 1 0.09594 1.8055 -940.11
## - L2.Write.Transactions..L1.write.requests. 1 0.13153 1.8411 -935.95
## - L2.Read.Transactions 1 0.13867 1.8482 -935.13
## - Control.Flow.Instructions 1 0.17314 1.8827 -931.19
## - fb_subp0_read_sectors 1 0.24605 1.9556 -923.10
## - Device.Memory.Read.Transactions 1 0.29840 2.0079 -917.47
## - L2.Write.Transactions 1 0.35360 2.0631 -911.70
## - Issued.Control.Flow.Instructions 1 0.45796 2.1675 -901.19
## - Global.Store.Transactions 1 0.46320 2.1727 -900.67
##

```

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## Step: AIC=-951.69
## trainingSet$Duration ~ Bus + Memoryclock + Input.Size + Issued.IPC +
## Instructions.per.warp + Shared.Memory.Load.Transactions.Per.Request +
## Shared.Memory.Store.Transactions.Per.Request + Global.Load.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## L2.Read.Transactions + L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Instructions.Executed +
## Instructions.Issued + Issue.Slots + Control.Flow.Instructions +
## Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + warps_launched + inst_issued1 +
## inst_issued2 + Grid.X
##
##
## Df Sum of Sq RSS AIC
## - Grid.X 1 0.00098 1.7109 -953.57
## - Instructions.per.warp 1 0.00101 1.7109 -953.57
## - Input.Size 1 0.00107 1.7110 -953.56
## - Issued.Load.Store.Instructions 1 0.00116 1.7111 -953.55
## - warps_launched 1 0.00118 1.7111 -953.54
## - Shared.Load.Transactions 1 0.00127 1.7112 -953.53
## - Shared.Store.Transactions 1 0.00127 1.7112 -953.53
## - Global.Load.Transactions 1 0.00129 1.7112 -953.53
## - Instructions.Executed 1 0.00133 1.7113 -953.53
## - Misc.Instructions 1 0.00136 1.7113 -953.52
## - inst_issued2 1 0.00171 1.7116 -953.48
## - Instructions.Issued 1 0.00171 1.7116 -953.48
## - Issue.Slots 1 0.00171 1.7116 -953.48
## - FLOP.Efficiency.Peak.Single. 1 0.00255 1.7125 -953.37
## - Memoryclock 1 0.00605 1.7160 -952.94
## - L2.Read.Transactions..L1.read.requests. 1 0.00898 1.7189 -952.58
## - Shared.Memory.Load.Transactions.Per.Request 1 0.00947 1.7194 -952.52
## - Global.Load.Transactions.Per.Request 1 0.00947 1.7194 -952.52
## - Shared.Memory.Store.Transactions.Per.Request 1 0.00947 1.7194 -952.52
## <none> 1.7099 -951.69
## - Executed.Load.Store.Instructions 1 0.02188 1.7318 -950.98
## - fb_subp1_write_sectors 1 0.02692 1.7369 -950.36
## - fb_subp0_write_sectors 1 0.02896 1.7389 -950.11
## - Executed.Control.Flow.Instructions 1 0.03263 1.7426 -949.66
## - Bus 1 0.03543 1.7454 -949.32
## - Eligible.Warps.Per.Active.Cycle 1 0.04314 1.7531 -948.38
## - fb_subp1_read_sectors 1 0.04537 1.7553 -948.11
## - inst_issued1 1 0.06358 1.7735 -945.92
## - Issued.IPC 1 0.06963 1.7796 -945.19
## - ECC.Transactions 1 0.09558 1.8055 -942.11
## - L2.Write.Transactions..L1.write.requests. 1 0.13128 1.8412 -937.94
## - L2.Read.Transactions 1 0.13947 1.8494 -936.99
## - Control.Flow.Instructions 1 0.17564 1.8856 -932.86
## - fb_subp0_read_sectors 1 0.24565 1.9556 -925.10
## - Device.Memory.Read.Transactions 1 0.29804 2.0080 -919.47
## - L2.Write.Transactions 1 0.35592 2.0659 -913.41

```



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## - Issued.Control.Flow.Instructions          1    0.46392 2.1738 -902.56
## - Global.Store.Transactions                 1    0.46710 2.1770 -902.25
##
## Step: AIC=-953.57
## trainingSet$Duration ~ Bus + Memoryclock + Input.Size + Issued.IPC +
##   Instructions.per.warp + Shared.Memory.Load.Transactions.Per.Request +
##   Shared.Memory.Store.Transactions.Per.Request + Global.Load.Transactions.Per.Request +
##   Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
##   Global.Store.Transactions + Device.Memory.Read.Transactions +
##   L2.Read.Transactions + L2.Write.Transactions + Issued.Control.Flow.Instructions +
##   Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##   Executed.Load.Store.Instructions + Instructions.Executed +
##   Instructions.Issued + Issue.Slots + Control.Flow.Instructions +
##   Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
##   L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
##   Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##   fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##   fb_subp1_write_sectors + warps_launched + inst_issued1 +
##   inst_issued2
##
##
##                                     Df Sum of Sq   RSS   AIC
## - Issued.Load.Store.Instructions      1    0.00110 1.7120 -955.43
## - warps_launched                      1    0.00113 1.7120 -955.43
## - Shared.Load.Transactions             1    0.00121 1.7121 -955.42
## - Shared.Store.Transactions            1    0.00122 1.7121 -955.42
## - Global.Load.Transactions             1    0.00123 1.7121 -955.42
## - Instructions.Executed                1    0.00128 1.7122 -955.41
## - inst_issued2                       1    0.00129 1.7122 -955.41
## - Instructions.Issued                  1    0.00129 1.7122 -955.41
## - Issue.Slots                         1    0.00129 1.7122 -955.41
## - Misc.Instructions                    1    0.00129 1.7122 -955.41
## - Memoryclock                         1    0.00556 1.7165 -954.88
## - Instructions.per.warp                1    0.00745 1.7184 -954.64
## - L2.Read.Transactions..L1.read.requests. 1    0.00885 1.7198 -954.47
## - Shared.Memory.Load.Transactions.Per.Request 1    0.00886 1.7198 -954.47
## - Global.Load.Transactions.Per.Request 1    0.00886 1.7198 -954.47
## - Shared.Memory.Store.Transactions.Per.Request 1    0.00886 1.7198 -954.47
## - FLOP.Efficiency.Peak.Single.        1    0.01093 1.7218 -954.21
## <none>                                1    0.01109 1.7109 -953.57
## - Executed.Load.Store.Instructions      1    0.02158 1.7325 -952.90
## - Input.Size                          1    0.02241 1.7333 -952.80
## - fb_subp1_write_sectors                1    0.02812 1.7390 -952.10
## - fb_subp0_write_sectors                1    0.03022 1.7411 -951.84
## - Executed.Control.Flow.Instructions    1    0.03423 1.7451 -951.35
## - Bus                                  1    0.03825 1.7492 -950.86
## - Eligible.Warps.Per.Active.Cycle      1    0.04308 1.7540 -950.27
## - fb_subp1_read_sectors                 1    0.04529 1.7562 -950.00
## - inst_issued1                         1    0.06358 1.7745 -947.80
## - Issued.IPC                           1    0.07519 1.7861 -946.41
## - ECC.Transactions                      1    0.09472 1.8056 -944.09
## - L2.Write.Transactions..L1.write.requests. 1    0.13064 1.8416 -939.90
## - L2.Read.Transactions                  1    0.13916 1.8501 -938.91
## - Control.Flow.Instructions             1    0.18248 1.8934 -933.98
## - fb_subp0_read_sectors                 1    0.24550 1.9564 -927.01

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## - Device.Memory.Read.Transactions      1  0.29783 2.0087 -921.39
## - L2.Write.Transactions                 1  0.35536 2.0663 -915.37
## - Issued.Control.Flow.Instructions      1  0.46382 2.1747 -904.47
## - Global.Store.Transactions             1  0.46622 2.1771 -904.24
##
## Step: AIC=-955.43
## trainingSet$Duration ~ Bus + Memoryclock + Input.Size + Issued.IPC +
##   Instructions.per.warp + Shared.Memory.Load.Transactions.Per.Request +
##   Shared.Memory.Store.Transactions.Per.Request + Global.Load.Transactions.Per.Request +
##   Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
##   Global.Store.Transactions + Device.Memory.Read.Transactions +
##   L2.Read.Transactions + L2.Write.Transactions + Issued.Control.Flow.Instructions +
##   Executed.Control.Flow.Instructions + Executed.Load.Store.Instructions +
##   Instructions.Executed + Instructions.Issued + Issue.Slots +
##   Control.Flow.Instructions + Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
##   L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
##   Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##   fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##   fb_subp1_write_sectors + warps_launched + inst_issued1 +
##   inst_issued2
##
##                                     Df Sum of Sq   RSS   AIC
## - warps_launched                    1  0.00128 1.7133 -957.27
## - Shared.Load.Transactions           1  0.00137 1.7134 -957.26
## - Shared.Store.Transactions          1  0.00137 1.7134 -957.26
## - Global.Load.Transactions           1  0.00139 1.7134 -957.26
## - Instructions.Executed              1  0.00144 1.7134 -957.25
## - Misc.Instructions                  1  0.00145 1.7135 -957.25
## - inst_issued2                      1  0.00176 1.7138 -957.21
## - Instructions.Issued                1  0.00176 1.7138 -957.21
## - Issue.Slots                       1  0.00176 1.7138 -957.21
## - Memoryclock                       1  0.00580 1.7178 -956.71
## - Instructions.per.warp              1  0.00754 1.7195 -956.50
## - L2.Read.Transactions..L1.read.requests. 1  0.00795 1.7200 -956.45
## - Shared.Memory.Load.Transactions.Per.Request 1  0.00836 1.7204 -956.39
## - Global.Load.Transactions.Per.Request 1  0.00836 1.7204 -956.39
## - Shared.Memory.Store.Transactions.Per.Request 1  0.00836 1.7204 -956.39
## - FLOP.Efficiency.Peak.Single.      1  0.01081 1.7228 -956.09
## <none>                                1.7120 -955.43
## - Input.Size                        1  0.02252 1.7345 -954.65
## - fb_subp1_write_sectors             1  0.02701 1.7390 -954.10
## - fb_subp0_write_sectors             1  0.02912 1.7411 -953.84
## - Bus                               1  0.03797 1.7500 -952.76
## - Eligible.Warps.Per.Active.Cycle   1  0.04328 1.7553 -952.11
## - fb_subp1_read_sectors              1  0.04618 1.7582 -951.76
## - Executed.Control.Flow.Instructions 1  0.06847 1.7805 -949.08
## - inst_issued1                      1  0.06921 1.7812 -948.99
## - Issued.IPC                        1  0.07469 1.7867 -948.34
## - ECC.Transactions                   1  0.09399 1.8060 -946.05
## - Executed.Load.Store.Instructions   1  0.12409 1.8361 -942.53
## - L2.Write.Transactions..L1.write.requests. 1  0.13238 1.8444 -941.57
## - L2.Read.Transactions               1  0.14264 1.8546 -940.39
## - Control.Flow.Instructions          1  0.18313 1.8951 -935.79
## - fb_subp0_read_sectors              1  0.24462 1.9566 -928.98

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## - Device.Memory.Read.Transactions      1  0.29673 2.0087 -923.39
## - L2.Write.Transactions                 1  0.35741 2.0694 -917.05
## - Issued.Control.Flow.Instructions      1  0.46508 2.1771 -906.24
## - Global.Store.Transactions             1  0.47140 2.1834 -905.63
##
## Step: AIC=-957.27
## trainingSet$Duration ~ Bus + Memoryclock + Input.Size + Issued.IPC +
##   Instructions.per.warp + Shared.Memory.Load.Transactions.Per.Request +
##   Shared.Memory.Store.Transactions.Per.Request + Global.Load.Transactions.Per.Request +
##   Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
##   Global.Store.Transactions + Device.Memory.Read.Transactions +
##   L2.Read.Transactions + L2.Write.Transactions + Issued.Control.Flow.Instructions +
##   Executed.Control.Flow.Instructions + Executed.Load.Store.Instructions +
##   Instructions.Executed + Instructions.Issued + Issue.Slots +
##   Control.Flow.Instructions + Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
##   L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
##   Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##   fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##   fb_subp1_write_sectors + inst_issued1 + inst_issued2
##
##                                     Df Sum of Sq  RSS    AIC
## - inst_issued2                      1  0.00325 1.7165 -958.87
## - Instructions.Issued                1  0.00326 1.7165 -958.87
## - Issue.Slots                       1  0.00326 1.7166 -958.87
## - Memoryclock                      1  0.00581 1.7191 -958.55
## - Instructions.per.warp              1  0.00698 1.7203 -958.41
## - Shared.Memory.Load.Transactions.Per.Request 1  0.00713 1.7204 -958.39
## - Global.Load.Transactions.Per.Request 1  0.00713 1.7204 -958.39
## - Shared.Memory.Store.Transactions.Per.Request 1  0.00713 1.7204 -958.39
## - L2.Read.Transactions..L1.read.requests. 1  0.00808 1.7214 -958.27
## - FLOP.Efficiency.Peak.Single.      1  0.01127 1.7246 -957.88
## <none>                              1  0.01127 1.7133 -957.27
## - Input.Size                       1  0.02156 1.7349 -956.61
## - fb_subp1_write_sectors            1  0.02580 1.7391 -956.09
## - fb_subp0_write_sectors            1  0.02795 1.7412 -955.83
## - Bus                              1  0.03850 1.7518 -954.54
## - Eligible.Warps.Per.Active.Cycle   1  0.04280 1.7561 -954.02
## - fb_subp1_read_sectors             1  0.04599 1.7593 -953.63
## - Shared.Load.Transactions           1  0.04805 1.7613 -953.38
## - Shared.Store.Transactions          1  0.05742 1.7707 -952.25
## - Executed.Control.Flow.Instructions 1  0.06776 1.7811 -951.01
## - inst_issued1                     1  0.06905 1.7823 -950.86
## - Global.Load.Transactions           1  0.07098 1.7843 -950.63
## - Misc.Instructions                 1  0.07415 1.7874 -950.25
## - Issued.IPC                       1  0.07438 1.7877 -950.22
## - ECC.Transactions                  1  0.09601 1.8093 -947.66
## - Executed.Load.Store.Instructions   1  0.12617 1.8395 -944.14
## - Instructions.Executed              1  0.13478 1.8481 -943.14
## - L2.Write.Transactions..L1.write.requests. 1  0.13840 1.8517 -942.73
## - L2.Read.Transactions              1  0.14552 1.8588 -941.91
## - Control.Flow.Instructions          1  0.18200 1.8953 -937.77
## - fb_subp0_read_sectors             1  0.24430 1.9576 -930.88
## - Device.Memory.Read.Transactions    1  0.29616 2.0095 -925.31
## - L2.Write.Transactions             1  0.35782 2.0711 -918.87

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## - Global.Store.Transactions          1  0.47259 2.1859 -907.39
## - Issued.Control.Flow.Instructions    1  0.47788 2.1912 -906.87
##
## Step: AIC=-958.87
## trainingSet$Duration ~ Bus + Memoryclock + Input.Size + Issued.IPC +
##   Instructions.per.warp + Shared.Memory.Load.Transactions.Per.Request +
##   Shared.Memory.Store.Transactions.Per.Request + Global.Load.Transactions.Per.Request +
##   Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
##   Global.Store.Transactions + Device.Memory.Read.Transactions +
##   L2.Read.Transactions + L2.Write.Transactions + Issued.Control.Flow.Instructions +
##   Executed.Control.Flow.Instructions + Executed.Load.Store.Instructions +
##   Instructions.Executed + Instructions.Issued + Issue.Slots +
##   Control.Flow.Instructions + Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
##   L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
##   Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##   fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##   fb_subp1_write_sectors + inst_issued1
##
##                                     Df Sum of Sq   RSS    AIC
## - Memoryclock                      1  0.00637 1.7229 -960.08
## - Instructions.per.warp              1  0.00664 1.7232 -960.05
## - L2.Read.Transactions..L1.read.requests. 1  0.00761 1.7242 -959.93
## - Shared.Memory.Load.Transactions.Per.Request 1  0.00802 1.7246 -959.88
## - Global.Load.Transactions.Per.Request 1  0.00802 1.7246 -959.88
## - Shared.Memory.Store.Transactions.Per.Request 1  0.00802 1.7246 -959.88
## - FLOP.Efficiency.Peak.Single.      1  0.00964 1.7262 -959.68
## <none>                             1.7165 -958.87
## - Input.Size                       1  0.02095 1.7375 -958.29
## - fb_subp1_write_sectors            1  0.02513 1.7417 -957.77
## - fb_subp0_write_sectors            1  0.02723 1.7438 -957.52
## - Bus                              1  0.03897 1.7555 -956.09
## - Eligible.Warps.Per.Active.Cycle  1  0.04004 1.7566 -955.96
## - Shared.Load.Transactions          1  0.04548 1.7620 -955.30
## - fb_subp1_read_sectors             1  0.04696 1.7635 -955.12
## - Shared.Store.Transactions         1  0.05470 1.7712 -954.19
## - Global.Load.Transactions          1  0.06820 1.7847 -952.57
## - inst_issued1                    1  0.06979 1.7863 -952.38
## - Misc.Instructions                1  0.07095 1.7875 -952.24
## - Issued.IPC                      1  0.07192 1.7885 -952.13
## - Executed.Control.Flow.Instructions 1  0.08170 1.7982 -950.96
## - ECC.Transactions                 1  0.09279 1.8093 -949.65
## - Executed.Load.Store.Instructions  1  0.12931 1.8459 -945.40
## - Instructions.Executed             1  0.13169 1.8482 -945.12
## - L2.Write.Transactions..L1.write.requests. 1  0.13591 1.8525 -944.64
## - L2.Read.Transactions             1  0.14819 1.8647 -943.23
## - Issue.Slots                     1  0.14923 1.8658 -943.11
## - Control.Flow.Instructions         1  0.19338 1.9099 -938.13
## - Instructions.Issued               1  0.20148 1.9180 -937.23
## - fb_subp0_read_sectors            1  0.24136 1.9579 -932.85
## - Device.Memory.Read.Transactions   1  0.29292 2.0095 -927.31
## - L2.Write.Transactions             1  0.36748 2.0840 -919.55
## - Issued.Control.Flow.Instructions  1  0.47990 2.1964 -908.36
## - Global.Store.Transactions        1  0.48087 2.1974 -908.26
##

```

```

## Step: AIC=-960.08
## trainingSet$Duration ~ Bus + Input.Size + Issued.IPC + Instructions.per.warp +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Shared.Load.Transactions +
## Shared.Store.Transactions + Global.Load.Transactions + Global.Store.Transactions +
## Device.Memory.Read.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Executed.Load.Store.Instructions +
## Instructions.Executed + Instructions.Issued + Issue.Slots +
## Control.Flow.Instructions + Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + inst_issued1
##
##
## Df Sum of Sq RSS AIC
## - Shared.Memory.Load.Transactions.Per.Request 1 0.00655 1.7295 -961.27
## - Global.Load.Transactions.Per.Request 1 0.00655 1.7295 -961.27
## - Shared.Memory.Store.Transactions.Per.Request 1 0.00655 1.7295 -961.27
## - Instructions.per.warp 1 0.00722 1.7301 -961.19
## - L2.Read.Transactions..L1.read.requests. 1 0.00856 1.7315 -961.02
## - FLOP.Efficiency.Peak.Single. 1 0.01399 1.7369 -960.36
## <none> 1.7229 -960.08
## - Input.Size 1 0.02226 1.7452 -959.35
## - fb_subp1_write_sectors 1 0.02570 1.7486 -958.93
## - fb_subp0_write_sectors 1 0.02792 1.7508 -958.66
## - Shared.Load.Transactions 1 0.04645 1.7694 -956.41
## - fb_subp1_read_sectors 1 0.04923 1.7721 -956.08
## - Eligible.Warps.Per.Active.Cycle 1 0.05441 1.7773 -955.46
## - Shared.Store.Transactions 1 0.05590 1.7788 -955.28
## - Bus 1 0.06298 1.7859 -954.43
## - Global.Load.Transactions 1 0.06963 1.7926 -953.64
## - Misc.Instructions 1 0.07311 1.7960 -953.23
## - inst_issued1 1 0.07448 1.7974 -953.07
## - Executed.Control.Flow.Instructions 1 0.08115 1.8041 -952.28
## - ECC.Transactions 1 0.09186 1.8148 -951.02
## - Executed.Load.Store.Instructions 1 0.12871 1.8516 -946.73
## - Instructions.Executed 1 0.13463 1.8576 -946.05
## - L2.Write.Transactions..L1.write.requests. 1 0.13622 1.8591 -945.87
## - L2.Read.Transactions 1 0.14660 1.8695 -944.69
## - Issued.IPC 1 0.15457 1.8775 -943.78
## - Issue.Slots 1 0.15597 1.8789 -943.62
## - Control.Flow.Instructions 1 0.19619 1.9191 -939.11
## - Instructions.Issued 1 0.20946 1.9324 -937.64
## - fb_subp0_read_sectors 1 0.24175 1.9647 -934.11
## - Device.Memory.Read.Transactions 1 0.29615 2.0191 -928.29
## - L2.Write.Transactions 1 0.36132 2.0842 -921.53
## - Global.Store.Transactions 1 0.47499 2.1979 -910.22
## - Issued.Control.Flow.Instructions 1 0.49736 2.2203 -908.06
##
## Step: AIC=-961.27
## trainingSet$Duration ~ Bus + Input.Size + Issued.IPC + Instructions.per.warp +
## Shared.Memory.Store.Transactions.Per.Request + Global.Load.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +

```

```

## Global.Store.Transactions + Device.Memory.Read.Transactions +
## L2.Read.Transactions + L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Executed.Load.Store.Instructions +
## Instructions.Executed + Instructions.Issued + Issue.Slots +
## Control.Flow.Instructions + Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + inst_issued1
##
##
## Df Sum of Sq RSS AIC
## - Instructions.per.warp 1 0.00736 1.7368 -962.37
## - L2.Read.Transactions..L1.read.requests. 1 0.00830 1.7378 -962.25
## - FLOP.Efficiency.Peak.Single. 1 0.01547 1.7449 -961.37
## <none> 1.7295 -961.27
## - fb_subp1_write_sectors 1 0.02140 1.7509 -960.65
## - Input.Size 1 0.02235 1.7518 -960.54
## - fb_subp0_write_sectors 1 0.02348 1.7530 -960.40
## - Global.Load.Transactions.Per.Request 1 0.04524 1.7747 -957.77
## - Shared.Load.Transactions 1 0.04658 1.7760 -957.61
## - Shared.Memory.Store.Transactions.Per.Request 1 0.04683 1.7763 -957.58
## - fb_subp1_read_sectors 1 0.04737 1.7768 -957.51
## - Eligible.Warps.Per.Active.Cycle 1 0.04862 1.7781 -957.37
## - Shared.Store.Transactions 1 0.05602 1.7855 -956.48
## - Bus 1 0.06316 1.7926 -955.63
## - Global.Load.Transactions 1 0.06976 1.7992 -954.85
## - inst_issued1 1 0.07450 1.8040 -954.29
## - Misc.Instructions 1 0.07554 1.8050 -954.16
## - Executed.Control.Flow.Instructions 1 0.07644 1.8059 -954.06
## - ECC.Transactions 1 0.08984 1.8193 -952.48
## - Instructions.Executed 1 0.13469 1.8642 -947.30
## - Executed.Load.Store.Instructions 1 0.14176 1.8712 -946.49
## - L2.Write.Transactions..L1.write.requests. 1 0.14318 1.8726 -946.33
## - L2.Read.Transactions 1 0.14602 1.8755 -946.01
## - Issued.IPC 1 0.15300 1.8825 -945.21
## - Issue.Slots 1 0.15364 1.8831 -945.14
## - Control.Flow.Instructions 1 0.19311 1.9226 -940.72
## - Instructions.Issued 1 0.20513 1.9346 -939.40
## - fb_subp0_read_sectors 1 0.24110 1.9706 -935.47
## - Device.Memory.Read.Transactions 1 0.29341 2.0229 -929.89
## - L2.Write.Transactions 1 0.36256 2.0920 -922.73
## - Global.Store.Transactions 1 0.48231 2.2118 -910.88
## - Issued.Control.Flow.Instructions 1 0.49602 2.2255 -909.56
##
## Step: AIC=-962.37
## trainingSet$Duration ~ Bus + Input.Size + Issued.IPC + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Shared.Load.Transactions +
## Shared.Store.Transactions + Global.Load.Transactions + Global.Store.Transactions +
## Device.Memory.Read.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Executed.Load.Store.Instructions +
## Instructions.Executed + Instructions.Issued + Issue.Slots +
## Control.Flow.Instructions + Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +

```

```

## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + inst_issued1
##
##
## Df Sum of Sq RSS AIC
## - L2.Read.Transactions..L1.read.requests. 1 0.00865 1.7455 -963.31
## - FLOP.Efficiency.Peak.Single. 1 0.01496 1.7518 -962.54
## <none> 1.7368 -962.37
## - fb_subp1_write_sectors 1 0.02683 1.7637 -961.10
## - fb_subp0_write_sectors 1 0.02916 1.7660 -960.82
## - Eligible.Warps.Per.Active.Cycle 1 0.04752 1.7844 -958.62
## - fb_subp1_read_sectors 1 0.04805 1.7849 -958.55
## - Bus 1 0.06307 1.7999 -956.77
## - inst_issued1 1 0.07631 1.8131 -955.21
## - Executed.Control.Flow.Instructions 1 0.08258 1.8194 -954.47
## - ECC.Transactions 1 0.09199 1.8288 -953.37
## - Input.Size 1 0.11252 1.8494 -951.00
## - Misc.Instructions 1 0.11612 1.8530 -950.58
## - Executed.Load.Store.Instructions 1 0.13707 1.8739 -948.19
## - L2.Read.Transactions 1 0.14655 1.8834 -947.11
## - L2.Write.Transactions..L1.write.requests. 1 0.14661 1.8834 -947.10
## - Issued.IPC 1 0.15213 1.8890 -946.48
## - Issue.Slots 1 0.15765 1.8945 -945.86
## - Shared.Memory.Store.Transactions.Per.Request 1 0.17932 1.9162 -943.44
## - Global.Load.Transactions.Per.Request 1 0.18165 1.9185 -943.18
## - Control.Flow.Instructions 1 0.18790 1.9247 -942.49
## - Shared.Load.Transactions 1 0.19639 1.9332 -941.55
## - Instructions.Issued 1 0.21120 1.9480 -939.92
## - Shared.Store.Transactions 1 0.22770 1.9645 -938.13
## - Global.Load.Transactions 1 0.24282 1.9796 -936.49
## - fb_subp0_read_sectors 1 0.24358 1.9804 -936.41
## - Device.Memory.Read.Transactions 1 0.29680 2.0336 -930.76
## - Instructions.Executed 1 0.35277 2.0896 -924.98
## - L2.Write.Transactions 1 0.36069 2.0975 -924.17
## - Issued.Control.Flow.Instructions 1 0.48868 2.2255 -911.56
## - Global.Store.Transactions 1 0.49637 2.2332 -910.82
##
## Step: AIC=-963.31
## trainingSet$Duration ~ Bus + Input.Size + Issued.IPC + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Shared.Load.Transactions +
## Shared.Store.Transactions + Global.Load.Transactions + Global.Store.Transactions +
## Device.Memory.Read.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Executed.Load.Store.Instructions +
## Instructions.Executed + Instructions.Issued + Issue.Slots +
## Control.Flow.Instructions + Misc.Instructions + L2.Write.Transactions..L1.write.requests. +
## ECC.Transactions + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + inst_issued1
##
##
## Df Sum of Sq RSS AIC
## - FLOP.Efficiency.Peak.Single. 1 0.01483 1.7603 -963.51
## <none> 1.7455 -963.31
## - fb_subp1_write_sectors 1 0.02628 1.7718 -962.13

```

```

## - fb_subp0_write_sectors      1  0.02859 1.7741 -961.85
## - fb_subp1_read_sectors      1  0.04876 1.7942 -959.44
## - Eligible.Warps.Per.Active.Cycle 1  0.04883 1.7943 -959.43
## - Bus                        1  0.06342 1.8089 -957.71
## - inst_issued1              1  0.07084 1.8163 -956.83
## - ECC.Transactions           1  0.08341 1.8289 -955.36
## - Executed.Control.Flow.Instructions 1  0.08615 1.8316 -955.05
## - Input.Size                 1  0.10883 1.8543 -952.42
## - Misc.Instructions           1  0.11945 1.8649 -951.21
## - L2.Write.Transactions..L1.write.requests. 1  0.14485 1.8903 -948.33
## - L2.Read.Transactions        1  0.14966 1.8951 -947.79
## - Issued.IPC                 1  0.15034 1.8958 -947.71
## - Issue.Slots                1  0.15174 1.8972 -947.55
## - Executed.Load.Store.Instructions 1  0.15444 1.8999 -947.25
## - Shared.Memory.Store.Transactions.Per.Request 1  0.18041 1.9259 -944.36
## - Global.Load.Transactions.Per.Request 1  0.18283 1.9283 -944.09
## - Shared.Load.Transactions    1  0.19193 1.9374 -943.09
## - Control.Flow.Instructions   1  0.19639 1.9419 -942.60
## - Instructions.Issued         1  0.20430 1.9498 -941.73
## - Shared.Store.Transactions   1  0.22301 1.9685 -939.70
## - fb_subp0_read_sectors      1  0.23494 1.9804 -938.41
## - Global.Load.Transactions    1  0.23988 1.9854 -937.88
## - Device.Memory.Read.Transactions 1  0.28832 2.0338 -932.75
## - Instructions.Executed       1  0.35189 2.0974 -926.19
## - L2.Write.Transactions       1  0.38927 2.1347 -922.43
## - Issued.Control.Flow.Instructions 1  0.49178 2.2373 -912.44
## - Global.Store.Transactions   1  0.52995 2.2754 -908.83
##
## Step: AIC=-963.51
## trainingSet$Duration ~ Bus + Input.Size + Issued.IPC + Shared.Memory.Store.Transactions.Per.Request +
##   Global.Load.Transactions.Per.Request + Shared.Load.Transactions +
##   Shared.Store.Transactions + Global.Load.Transactions + Global.Store.Transactions +
##   Device.Memory.Read.Transactions + L2.Read.Transactions +
##   L2.Write.Transactions + Issued.Control.Flow.Instructions +
##   Executed.Control.Flow.Instructions + Executed.Load.Store.Instructions +
##   Instructions.Executed + Instructions.Issued + Issue.Slots +
##   Control.Flow.Instructions + Misc.Instructions + L2.Write.Transactions..L1.write.requests. +
##   ECC.Transactions + Eligible.Warps.Per.Active.Cycle + fb_subp0_read_sectors +
##   fb_subp1_read_sectors + fb_subp0_write_sectors + fb_subp1_write_sectors +
##   inst_issued1
##
##
##           Df Sum of Sq  RSS    AIC
## <none>                                1.7603 -963.51
## - fb_subp1_write_sectors      1  0.03154 1.7918 -961.72
## - fb_subp0_write_sectors      1  0.03402 1.7943 -961.43
## - Eligible.Warps.Per.Active.Cycle 1  0.04716 1.8075 -959.87
## - fb_subp1_read_sectors      1  0.04902 1.8093 -959.66
## - inst_issued1              1  0.07467 1.8350 -956.66
## - ECC.Transactions           1  0.07860 1.8389 -956.20
## - Bus                        1  0.10392 1.8642 -953.29
## - Input.Size                 1  0.10620 1.8665 -953.03
## - Executed.Control.Flow.Instructions 1  0.10809 1.8684 -952.81
## - Misc.Instructions           1  0.11495 1.8753 -952.03
## - L2.Write.Transactions..L1.write.requests. 1  0.13871 1.8990 -949.35

```



```

## - L2.Read.Transactions          1  0.14898 1.9093 -948.20
## - Executed.Load.Store.Instructions 1  0.15140 1.9117 -947.93
## - Issued.IPC                    1  0.16100 1.9213 -946.87
## - Shared.Memory.Store.Transactions.Per.Request 1  0.16576 1.9261 -946.34
## - Issue.Slots                   1  0.16644 1.9267 -946.26
## - Global.Load.Transactions.Per.Request 1  0.16838 1.9287 -946.05
## - Shared.Load.Transactions       1  0.17854 1.9388 -944.93
## - Shared.Store.Transactions      1  0.20938 1.9697 -941.57
## - Global.Load.Transactions       1  0.22909 1.9894 -939.45
## - Instructions.Issued            1  0.23122 1.9915 -939.22
## - fb_subp0_read_sectors         1  0.23935 1.9997 -938.35
## - Control.Flow.Instructions      1  0.28477 2.0451 -933.57
## - Device.Memory.Read.Transactions 1  0.29342 2.0537 -932.67
## - Instructions.Executed          1  0.34895 2.1093 -926.99
## - L2.Write.Transactions          1  0.39935 2.1597 -921.96
## - Global.Store.Transactions      1  0.53650 2.2968 -908.84
## - Issued.Control.Flow.Instructions 1  0.55163 2.3119 -907.44
## Start: AIC=-1500.59
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##   Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##   Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##   Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##   Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
##   Global.Store.Transactions + Device.Memory.Read.Transactions +
##   Device.Memory.Write.Transactions + L2.Read.Transactions +
##   L2.Write.Transactions + Issued.Control.Flow.Instructions +
##   Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##   Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
##   Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
##   Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
##   Control.Flow.Instructions + Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
##   L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
##   Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##   fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##   fb_subp1_write_sectors + warps_launched + threads_launched +
##   inst_executed + inst_issued1 + inst_issued2 + gld_inst_32bit +
##   gst_inst_32bit + gld_request + gst_request + Grid.X + Block.X
##
##
## Step: AIC=-1500.59
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##   Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##   Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##   Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##   Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
##   Global.Store.Transactions + Device.Memory.Read.Transactions +
##   Device.Memory.Write.Transactions + L2.Read.Transactions +
##   L2.Write.Transactions + Issued.Control.Flow.Instructions +
##   Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##   Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
##   Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
##   Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
##   Control.Flow.Instructions + Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
##   L2.Write.Transactions..L1.write.requests. + ECC.Transactions +

```

```

## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + warps_launched + threads_launched +
## inst_executed + inst_issued1 + inst_issued2 + gld_inst_32bit +
## gst_inst_32bit + gld_request + Grid.X + Block.X
##
##
## Step: AIC=-1500.59
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
## Control.Flow.Instructions + Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + warps_launched + threads_launched +
## inst_executed + inst_issued1 + inst_issued2 + gld_inst_32bit +
## gst_inst_32bit + Grid.X + Block.X
##
##
## Step: AIC=-1500.59
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
## Control.Flow.Instructions + Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + warps_launched + threads_launched +
## inst_executed + inst_issued1 + inst_issued2 + gld_inst_32bit +
## Grid.X + Block.X
##
##
## Step: AIC=-1500.59
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +

```

```

## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
## Control.Flow.Instructions + Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + warps_launched + threads_launched +
## inst_executed + inst_issued1 + inst_issued2 + Grid.X + Block.X
##
##
## Step: AIC=-1500.59
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
## Control.Flow.Instructions + Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + warps_launched + threads_launched +
## inst_issued1 + inst_issued2 + Grid.X + Block.X
##
##
## Step: AIC=-1500.59
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
## Control.Flow.Instructions + Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +

```

```

## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + warps_launched + inst_issued1 +
## inst_issued2 + Grid.X + Block.X
##
##
## Step: AIC=-1500.59
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + Control.Flow.Instructions +
## Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + warps_launched + inst_issued1 +
## inst_issued2 + Grid.X + Block.X
##
##
## Step: AIC=-1500.59
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Instructions.Executed + Instructions.Issued + Issue.Slots +
## Control.Flow.Instructions + Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + warps_launched + inst_issued1 +
## inst_issued2 + Grid.X + Block.X
##
##
## Step: AIC=-1500.59
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +

```

```

## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Instructions.Executed +
## Instructions.Issued + Issue.Slots + Control.Flow.Instructions +
## Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + warps_launched + inst_issued1 +
## inst_issued2 + Grid.X + Block.X
##
##
## Step: AIC=-1500.59
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Shared.Load.Transactions +
## Shared.Store.Transactions + Global.Load.Transactions + Global.Store.Transactions +
## Device.Memory.Read.Transactions + Device.Memory.Write.Transactions +
## L2.Read.Transactions + L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Instructions.Executed +
## Instructions.Issued + Issue.Slots + Control.Flow.Instructions +
## Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + warps_launched + inst_issued1 +
## inst_issued2 + Grid.X + Block.X
##
##
## Step: AIC=-1500.59
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Store.Transactions.Per.Request + Global.Load.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Instructions.Executed +
## Instructions.Issued + Issue.Slots + Control.Flow.Instructions +
## Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + warps_launched + inst_issued1 +
## inst_issued2 + Grid.X + Block.X
##
##
## Step: AIC=-1500.59
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +

```

```

## Shared.Memory.Store.Transactions.Per.Request + Global.Load.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Instructions.Executed +
## Instructions.Issued + Issue.Slots + Control.Flow.Instructions +
## Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + warps_launched + inst_issued1 +
## inst_issued2 + Grid.X + Block.X
##

```

	Df	Sum of Sq	RSS
## - Device.Memory.Write.Transactions	1	0.00006	0.80858
## - L2.Read.Transactions..L1.read.requests.	1	0.00006	0.80858
## - fb_subp1_read_sectors	1	0.00026	0.80878
## - warps_launched	1	0.00050	0.80902
## - Input.Size	1	0.00091	0.80943
## - Instructions.per.warp	1	0.00093	0.80945
## - Grid.X	1	0.00093	0.80945
## - Issue.Slots	1	0.00099	0.80951
## - Instructions.Issued	1	0.00099	0.80951
## - inst_issued2	1	0.00099	0.80951
## - Global.Load.Transactions	1	0.00145	0.80997
## - FLOP.Efficiency.Peak.Single.	1	0.00176	0.81028
## - fb_subp1_write_sectors	1	0.00257	0.81109
## - fb_subp0_write_sectors	1	0.00266	0.81118
## - L2.Read.Transactions	1	0.00277	0.81129
## - L2.Write.Transactions	1	0.00298	0.81150
## - Global.Store.Transactions	1	0.00496	0.81348
## <none>			0.80852
## - Issued.Load.Store.Instructions	1	0.00785	0.81637
## - L2.Write.Transactions..L1.write.requests.	1	0.00825	0.81677
## - Issued.IPC	1	0.00901	0.81753
## - Eligible.Warps.Per.Active.Cycle	1	0.01253	0.82105
## - Executed.Load.Store.Instructions	1	0.01256	0.82108
## - Device.Memory.Read.Transactions	1	0.01299	0.82151
## - Executed.Control.Flow.Instructions	1	0.01405	0.82257
## - Issue.Slot.Utilization	1	0.01419	0.82271
## - Global.Load.Transactions.Per.Request	1	0.01508	0.82360
## - Memoryclock	1	0.01825	0.82677
## - fb_subp0_read_sectors	1	0.01998	0.82850
## - Block.X	1	0.02322	0.83174
## - Bus	1	0.02600	0.83452
## - Shared.Memory.Store.Transactions.Per.Request	1	0.03210	0.84062
## - inst_issued1	1	0.05115	0.85967
## - Misc.Instructions	1	0.05156	0.86008
## - L2	1	0.05200	0.86052
## - Shared.Store.Transactions	1	0.10517	0.91369
## - Shared.Load.Transactions	1	0.12816	0.93668
## - Instructions.Executed	1	0.13414	0.94266

```

## - Issued.Control.Flow.Instructions      1  0.22068 1.02920
## - Control.Flow.Instructions             1  0.32887 1.13739
## - ECC.Transactions                     1  0.84941 1.65793
##                                         AIC
## - Device.Memory.Write.Transactions     -1502.6
## - L2.Read.Transactions..L1.read.requests. -1502.6
## - fb_subp1_read_sectors                -1502.5
## - warps_launched                       -1502.4
## - Input.Size                           -1502.3
## - Instructions.per.warp                 -1502.3
## - Grid.X                               -1502.3
## - Issue.Slots                           -1502.3
## - Instructions.Issued                   -1502.3
## - inst_issued2                         -1502.3
## - Global.Load.Transactions              -1502.1
## - FLOP.Efficiency.Peak.Single.         -1502.0
## - fb_subp1_write_sectors               -1501.7
## - fb_subp0_write_sectors               -1501.7
## - L2.Read.Transactions                  -1501.7
## - L2.Write.Transactions                 -1501.6
## - Global.Store.Transactions             -1500.9
## <none>                                  -1500.6
## - Issued.Load.Store.Instructions        -1500.0
## - L2.Write.Transactions..L1.write.requests. -1499.8
## - Issued.IPC                           -1499.6
## - Eligible.Warps.Per.Active.Cycle      -1498.4
## - Executed.Load.Store.Instructions      -1498.4
## - Device.Memory.Read.Transactions       -1498.3
## - Executed.Control.Flow.Instructions    -1497.9
## - Issue.Slot.Utilization                -1497.9
## - Global.Load.Transactions.Per.Request  -1497.6
## - Memoryclock                           -1496.5
## - fb_subp0_read_sectors                 -1496.0
## - Block.X                              -1494.9
## - Bus                                   -1494.0
## - Shared.Memory.Store.Transactions.Per.Request -1492.0
## - inst_issued1                         -1485.9
## - Misc.Instructions                     -1485.8
## - L2                                    -1485.6
## - Shared.Store.Transactions              -1469.3
## - Shared.Load.Transactions               -1462.6
## - Instructions.Executed                  -1460.8
## - Issued.Control.Flow.Instructions      -1437.0
## - Control.Flow.Instructions              -1409.8
## - ECC.Transactions                      -1307.3
##
## Step: AIC=-1502.57
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Input.Size +
##   Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##   Shared.Memory.Store.Transactions.Per.Request + Global.Load.Transactions.Per.Request +
##   Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
##   Global.Store.Transactions + Device.Memory.Read.Transactions +
##   L2.Read.Transactions + L2.Write.Transactions + Issued.Control.Flow.Instructions +
##   Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +

```

```

##      Executed.Load.Store.Instructions + Instructions.Executed +
##      Instructions.Issued + Issue.Slots + Control.Flow.Instructions +
##      Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
##      L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
##      Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##      fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##      fb_subp1_write_sectors + warps_launched + inst_issued1 +
##      inst_issued2 + Grid.X + Block.X
##
##
##      Df Sum of Sq      RSS
## - L2.Read.Transactions..L1.read.requests.      1  0.00006 0.80864
## - fb_subp1_read_sectors                        1  0.00025 0.80883
## - warps_launched                              1  0.00049 0.80907
## - Input.Size                                  1  0.00091 0.80949
## - Instructions.per.warp                       1  0.00092 0.80951
## - Grid.X                                      1  0.00093 0.80951
## - Issue.Slots                                1  0.00101 0.80959
## - Instructions.Issued                        1  0.00101 0.80959
## - inst_issued2                              1  0.00101 0.80959
## - Global.Load.Transactions                   1  0.00146 0.81004
## - FLOP.Efficiency.Peak.Single.               1  0.00178 0.81036
## - fb_subp0_write_sectors                     1  0.00265 0.81123
## - L2.Read.Transactions                       1  0.00277 0.81135
## - fb_subp1_write_sectors                     1  0.00280 0.81138
## - L2.Write.Transactions                      1  0.00298 0.81156
## - Global.Store.Transactions                  1  0.00520 0.81378
## <none>                                         0.80858
## - Issued.Load.Store.Instructions              1  0.00779 0.81637
## - L2.Write.Transactions..L1.write.requests.   1  0.00825 0.81683
## - Issued.IPC                                 1  0.00909 0.81767
## - Eligible.Warps.Per.Active.Cycle             1  0.01248 0.82106
## - Executed.Load.Store.Instructions            1  0.01252 0.82110
## - Device.Memory.Read.Transactions             1  0.01299 0.82157
## - Executed.Control.Flow.Instructions          1  0.01403 0.82261
## - Issue.Slot.Utilization                     1  0.01427 0.82285
## - Global.Load.Transactions.Per.Request        1  0.01515 0.82373
## - Memoryclock                               1  0.01819 0.82677
## - fb_subp0_read_sectors                      1  0.01992 0.82850
## - Block.X                                    1  0.02329 0.83187
## - Bus                                         1  0.02602 0.83461
## - Shared.Memory.Store.Transactions.Per.Request 1  0.03218 0.84076
## - Misc.Instructions                          1  0.05156 0.86014
## - inst_issued1                              1  0.05183 0.86041
## - L2                                          1  0.05197 0.86055
## - Shared.Store.Transactions                   1  0.10533 0.91391
## - Shared.Load.Transactions                   1  0.12811 0.93669
## - Instructions.Executed                      1  0.13408 0.94266
## - Issued.Control.Flow.Instructions            1  0.22076 1.02934
## - Control.Flow.Instructions                  1  0.32881 1.13740
## - ECC.Transactions                           1  0.85018 1.65877
##
##      AIC
## - L2.Read.Transactions..L1.read.requests.    -1504.5
## - fb_subp1_read_sectors                      -1504.5
## - warps_launched                             -1504.4

```



```

## - Input.Size -1504.3
## - Instructions.per.warp -1504.3
## - Grid.X -1504.3
## - Issue.Slots -1504.2
## - Instructions.Issued -1504.2
## - inst_issued2 -1504.2
## - Global.Load.Transactions -1504.1
## - FLOP.Efficiency.Peak.Single. -1504.0
## - fb_subp0_write_sectors -1503.7
## - L2.Read.Transactions -1503.6
## - fb_subp1_write_sectors -1503.6
## - L2.Write.Transactions -1503.6
## - Global.Store.Transactions -1502.8
## <none> -1502.6
## - Issued.Load.Store.Instructions -1502.0
## - L2.Write.Transactions..L1.write.requests. -1501.8
## - Issued.IPC -1501.5
## - Eligible.Warps.Per.Active.Cycle -1500.4
## - Executed.Load.Store.Instructions -1500.4
## - Device.Memory.Read.Transactions -1500.2
## - Executed.Control.Flow.Instructions -1499.9
## - Issue.Slot.Utilization -1499.8
## - Global.Load.Transactions.Per.Request -1499.5
## - Memoryclock -1498.5
## - fb_subp0_read_sectors -1498.0
## - Block.X -1496.8
## - Bus -1496.0
## - Shared.Memory.Store.Transactions.Per.Request -1494.0
## - Misc.Instructions -1487.8
## - inst_issued1 -1487.7
## - L2 -1487.6
## - Shared.Store.Transactions -1471.3
## - Shared.Load.Transactions -1464.6
## - Instructions.Executed -1462.8
## - Issued.Control.Flow.Instructions -1438.9
## - Control.Flow.Instructions -1411.8
## - ECC.Transactions -1309.1
##
## Step: AIC=-1504.55
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Store.Transactions.Per.Request + Global.Load.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## L2.Read.Transactions + L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Instructions.Executed +
## Instructions.Issued + Issue.Slots + Control.Flow.Instructions +
## Misc.Instructions + L2.Write.Transactions..L1.write.requests. +
## ECC.Transactions + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + warps_launched + inst_issued1 +
## inst_issued2 + Grid.X + Block.X
##

```

##	Df	Sum of Sq	RSS
## - fb_subp1_read_sectors	1	0.00025	0.80889
## - warps_launched	1	0.00047	0.80911
## - Input.Size	1	0.00091	0.80956
## - Instructions.per.warp	1	0.00093	0.80957
## - Grid.X	1	0.00093	0.80957
## - Issue.Slots	1	0.00101	0.80965
## - Instructions.Issued	1	0.00101	0.80965
## - inst_issued2	1	0.00101	0.80965
## - Global.Load.Transactions	1	0.00147	0.81011
## - FLOP.Efficiency.Peak.Single.	1	0.00181	0.81045
## - fb_subp0_write_sectors	1	0.00264	0.81128
## - L2.Read.Transactions	1	0.00277	0.81141
## - fb_subp1_write_sectors	1	0.00280	0.81144
## - L2.Write.Transactions	1	0.00294	0.81158
## - Global.Store.Transactions	1	0.00525	0.81389
## <none>			0.80864
## - Issued.Load.Store.Instructions	1	0.00778	0.81642
## - L2.Write.Transactions..L1.write.requests.	1	0.00831	0.81695
## - Issued.IPC	1	0.00915	0.81780
## - Executed.Load.Store.Instructions	1	0.01250	0.82114
## - Eligible.Warps.Per.Active.Cycle	1	0.01259	0.82123
## - Device.Memory.Read.Transactions	1	0.01299	0.82163
## - Executed.Control.Flow.Instructions	1	0.01406	0.82270
## - Issue.Slot.Utilization	1	0.01435	0.82299
## - Global.Load.Transactions.Per.Request	1	0.01529	0.82393
## - Memoryclock	1	0.01821	0.82686
## - fb_subp0_read_sectors	1	0.01990	0.82854
## - Block.X	1	0.02338	0.83202
## - Bus	1	0.02597	0.83461
## - Shared.Memory.Store.Transactions.Per.Request	1	0.03233	0.84097
## - inst_issued1	1	0.05180	0.86044
## - L2	1	0.05198	0.86062
## - Misc.Instructions	1	0.05238	0.86103
## - Shared.Store.Transactions	1	0.10529	0.91393
## - Shared.Load.Transactions	1	0.14176	0.95040
## - Instructions.Executed	1	0.14833	0.95698
## - Issued.Control.Flow.Instructions	1	0.22079	1.02943
## - Control.Flow.Instructions	1	0.32882	1.13746
## - ECC.Transactions	1	0.85105	1.65969
##		AIC	
## - fb_subp1_read_sectors	-1506.5		
## - warps_launched	-1506.4		
## - Input.Size	-1506.2		
## - Instructions.per.warp	-1506.2		
## - Grid.X	-1506.2		
## - Issue.Slots	-1506.2		
## - Instructions.Issued	-1506.2		
## - inst_issued2	-1506.2		
## - Global.Load.Transactions	-1506.1		
## - FLOP.Efficiency.Peak.Single.	-1505.9		
## - fb_subp0_write_sectors	-1505.7		
## - L2.Read.Transactions	-1505.6		
## - fb_subp1_write_sectors	-1505.6		

```

## - L2.Write.Transactions -1505.6
## - Global.Store.Transactions -1504.8
## <none> -1504.5
## - Issued.Load.Store.Instructions -1504.0
## - L2.Write.Transactions..L1.write.requests. -1503.8
## - Issued.IPC -1503.5
## - Executed.Load.Store.Instructions -1502.4
## - Eligible.Warps.Per.Active.Cycle -1502.3
## - Device.Memory.Read.Transactions -1502.2
## - Executed.Control.Flow.Instructions -1501.9
## - Issue.Slot.Utilization -1501.8
## - Global.Load.Transactions.Per.Request -1501.5
## - Memoryclock -1500.5
## - fb_subp0_read_sectors -1499.9
## - Block.X -1498.8
## - Bus -1498.0
## - Shared.Memory.Store.Transactions.Per.Request -1495.9
## - inst_issued1 -1489.7
## - L2 -1489.6
## - Misc.Instructions -1489.5
## - Shared.Store.Transactions -1473.3
## - Shared.Load.Transactions -1462.6
## - Instructions.Executed -1460.7
## - Issued.Control.Flow.Instructions -1440.9
## - Control.Flow.Instructions -1413.7
## - ECC.Transactions -1311.0
##
## Step: AIC=-1506.47
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Store.Transactions.Per.Request + Global.Load.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## L2.Read.Transactions + L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Instructions.Executed +
## Instructions.Issued + Issue.Slots + Control.Flow.Instructions +
## Misc.Instructions + L2.Write.Transactions..L1.write.requests. +
## ECC.Transactions + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp0_write_sectors + fb_subp1_write_sectors +
## warps_launched + inst_issued1 + inst_issued2 + Grid.X + Block.X
##
##
## Df Sum of Sq RSS
## - warps_launched 1 0.00046 0.80935
## - Input.Size 1 0.00091 0.80980
## - Instructions.per.warp 1 0.00093 0.80982
## - Grid.X 1 0.00093 0.80982
## - Issue.Slots 1 0.00101 0.80990
## - Instructions.Issued 1 0.00101 0.80990
## - inst_issued2 1 0.00102 0.80991
## - Global.Load.Transactions 1 0.00155 0.81044
## - FLOP.Efficiency.Peak.Single. 1 0.00180 0.81069
## - fb_subp0_write_sectors 1 0.00257 0.81146
## - fb_subp1_write_sectors 1 0.00272 0.81162

```

## - L2.Read.Transactions	1	0.00285	0.81174
## - L2.Write.Transactions	1	0.00295	0.81184
## - Global.Store.Transactions	1	0.00533	0.81422
## <none>			0.80889
## - Issued.Load.Store.Instructions	1	0.00757	0.81646
## - L2.Write.Transactions..L1.write.requests.	1	0.00838	0.81728
## - Issued.IPC	1	0.00911	0.81801
## - Executed.Load.Store.Instructions	1	0.01236	0.82125
## - Eligible.Warps.Per.Active.Cycle	1	0.01250	0.82139
## - Issue.Slot.Utilization	1	0.01428	0.82318
## - Global.Load.Transactions.Per.Request	1	0.01520	0.82409
## - Executed.Control.Flow.Instructions	1	0.01612	0.82501
## - Memoryclock	1	0.01814	0.82704
## - fb_subp0_read_sectors	1	0.01967	0.82857
## - Device.Memory.Read.Transactions	1	0.02146	0.83035
## - Block.X	1	0.02326	0.83215
## - Bus	1	0.02583	0.83472
## - Shared.Memory.Store.Transactions.Per.Request	1	0.03221	0.84110
## - inst_issued1	1	0.05157	0.86046
## - L2	1	0.05179	0.86068
## - Misc.Instructions	1	0.05257	0.86146
## - Shared.Store.Transactions	1	0.10537	0.91426
## - Shared.Load.Transactions	1	0.14151	0.95040
## - Instructions.Executed	1	0.14809	0.95698
## - Issued.Control.Flow.Instructions	1	0.22060	1.02950
## - Control.Flow.Instructions	1	0.32858	1.13747
## - ECC.Transactions	1	0.85197	1.66086
##		AIC	
## - warps_launched	-1508.3		
## - Input.Size	-1508.2		
## - Instructions.per.warp	-1508.2		
## - Grid.X	-1508.2		
## - Issue.Slots	-1508.1		
## - Instructions.Issued	-1508.1		
## - inst_issued2	-1508.1		
## - Global.Load.Transactions	-1508.0		
## - FLOP.Efficiency.Peak.Single.	-1507.9		
## - fb_subp0_write_sectors	-1507.6		
## - fb_subp1_write_sectors	-1507.5		
## - L2.Read.Transactions	-1507.5		
## - L2.Write.Transactions	-1507.5		
## - Global.Store.Transactions	-1506.7		
## <none>	-1506.5		
## - Issued.Load.Store.Instructions	-1505.9		
## - L2.Write.Transactions..L1.write.requests.	-1505.7		
## - Issued.IPC	-1505.4		
## - Executed.Load.Store.Instructions	-1504.3		
## - Eligible.Warps.Per.Active.Cycle	-1504.3		
## - Issue.Slot.Utilization	-1503.7		
## - Global.Load.Transactions.Per.Request	-1503.4		
## - Executed.Control.Flow.Instructions	-1503.1		
## - Memoryclock	-1502.4		
## - fb_subp0_read_sectors	-1501.9		
## - Device.Memory.Read.Transactions	-1501.3		

```

## - Block.X -1500.8
## - Bus -1499.9
## - Shared.Memory.Store.Transactions.Per.Request -1497.8
## - inst_issued1 -1491.7
## - L2 -1491.6
## - Misc.Instructions -1491.3
## - Shared.Store.Transactions -1475.2
## - Shared.Load.Transactions -1464.6
## - Instructions.Executed -1462.7
## - Issued.Control.Flow.Instructions -1442.9
## - Control.Flow.Instructions -1415.7
## - ECC.Transactions -1312.8
##
## Step: AIC=-1508.31
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Store.Transactions.Per.Request + Global.Load.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## L2.Read.Transactions + L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Instructions.Executed +
## Instructions.Issued + Issue.Slots + Control.Flow.Instructions +
## Misc.Instructions + L2.Write.Transactions..L1.write.requests. +
## ECC.Transactions + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp0_write_sectors + fb_subp1_write_sectors +
## inst_issued1 + inst_issued2 + Grid.X + Block.X
##
##
## Df Sum of Sq RSS
## - Input.Size 1 0.00103 0.81038
## - Issue.Slots 1 0.00104 0.81039
## - Instructions.Issued 1 0.00104 0.81039
## - inst_issued2 1 0.00104 0.81039
## - Grid.X 1 0.00104 0.81039
## - Instructions.per.warp 1 0.00105 0.81039
## - Global.Load.Transactions 1 0.00176 0.81111
## - FLOP.Efficiency.Peak.Single. 1 0.00204 0.81138
## - L2.Write.Transactions 1 0.00259 0.81194
## - fb_subp0_write_sectors 1 0.00261 0.81196
## - fb_subp1_write_sectors 1 0.00276 0.81211
## - L2.Read.Transactions 1 0.00279 0.81214
## <none> 0.80935
## - Issued.Load.Store.Instructions 1 0.00766 0.81701
## - Global.Store.Transactions 1 0.00874 0.81809
## - Issued.IPC 1 0.01074 0.82009
## - Eligible.Warps.Per.Active.Cycle 1 0.01204 0.82139
## - Executed.Load.Store.Instructions 1 0.01249 0.82184
## - Executed.Control.Flow.Instructions 1 0.01596 0.82531
## - Global.Load.Transactions.Per.Request 1 0.01657 0.82592
## - Issue.Slot.Utilization 1 0.01659 0.82594
## - Memoryclock 1 0.01793 0.82728
## - L2.Write.Transactions..L1.write.requests. 1 0.01889 0.82824
## - fb_subp0_read_sectors 1 0.01949 0.82884
## - Device.Memory.Read.Transactions 1 0.02189 0.83124

```

```

## - Block.X 1 0.02510 0.83445
## - Bus 1 0.02561 0.83496
## - Shared.Memory.Store.Transactions.Per.Request 1 0.03556 0.84491
## - inst_issued1 1 0.05157 0.86092
## - L2 1 0.05173 0.86108
## - Misc.Instructions 1 0.05386 0.86320
## - Shared.Store.Transactions 1 0.10842 0.91777
## - Shared.Load.Transactions 1 0.14183 0.95118
## - Instructions.Executed 1 0.14827 0.95761
## - Issued.Control.Flow.Instructions 1 0.23202 1.04137
## - Control.Flow.Instructions 1 0.32977 1.13912
## - ECC.Transactions 1 0.85975 1.66910
## AIC
## - Input.Size -1510.0
## - Issue.Slots -1510.0
## - Instructions.Issued -1510.0
## - inst_issued2 -1510.0
## - Grid.X -1510.0
## - Instructions.per.warp -1510.0
## - Global.Load.Transactions -1509.7
## - FLOP.Efficiency.Peak.Single. -1509.6
## - L2.Write.Transactions -1509.5
## - fb_subp0_write_sectors -1509.4
## - fb_subp1_write_sectors -1509.4
## - L2.Read.Transactions -1509.4
## <none> -1508.3
## - Issued.Load.Store.Instructions -1507.8
## - Global.Store.Transactions -1507.4
## - Issued.IPC -1506.7
## - Eligible.Warps.Per.Active.Cycle -1506.3
## - Executed.Load.Store.Instructions -1506.2
## - Executed.Control.Flow.Instructions -1505.0
## - Global.Load.Transactions.Per.Request -1504.8
## - Issue.Slot.Utilization -1504.8
## - Memoryclock -1504.3
## - L2.Write.Transactions..L1.write.requests. -1504.0
## - fb_subp0_read_sectors -1503.8
## - Device.Memory.Read.Transactions -1503.0
## - Block.X -1502.0
## - Bus -1501.8
## - Shared.Memory.Store.Transactions.Per.Request -1498.6
## - inst_issued1 -1493.5
## - L2 -1493.5
## - Misc.Instructions -1492.8
## - Shared.Store.Transactions -1476.1
## - Shared.Load.Transactions -1466.4
## - Instructions.Executed -1464.6
## - Issued.Control.Flow.Instructions -1441.8
## - Control.Flow.Instructions -1417.3
## - ECC.Transactions -1313.4
##
## Step: AIC=-1509.97
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Issued.IPC +
## Instructions.per.warp + Issue.Slot.Utilization + Shared.Memory.Store.Transactions.Per.Request +

```

```

##      Global.Load.Transactions.Per.Request + Shared.Load.Transactions +
##      Shared.Store.Transactions + Global.Load.Transactions + Global.Store.Transactions +
##      Device.Memory.Read.Transactions + L2.Read.Transactions +
##      L2.Write.Transactions + Issued.Control.Flow.Instructions +
##      Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##      Executed.Load.Store.Instructions + Instructions.Executed +
##      Instructions.Issued + Issue.Slots + Control.Flow.Instructions +
##      Misc.Instructions + L2.Write.Transactions..L1.write.requests. +
##      ECC.Transactions + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##      fb_subp0_read_sectors + fb_subp0_write_sectors + fb_subp1_write_sectors +
##      inst_issued1 + inst_issued2 + Grid.X + Block.X
##
##
##              Df Sum of Sq      RSS
## - Grid.X          1    0.00090 0.81128
## - Issue.Slots      1    0.00108 0.81146
## - Instructions.Issued  1    0.00108 0.81146
## - inst_issued2      1    0.00109 0.81146
## - Global.Load.Transactions  1    0.00221 0.81259
## - L2.Write.Transactions  1    0.00237 0.81275
## - fb_subp0_write_sectors  1    0.00249 0.81287
## - fb_subp1_write_sectors  1    0.00265 0.81302
## - L2.Read.Transactions  1    0.00290 0.81328
## - FLOP.Efficiency.Peak.Single.  1    0.00305 0.81342
## <none>                                0.81038
## - Issued.Load.Store.Instructions  1    0.00789 0.81827
## - Instructions.per.warp  1    0.00846 0.81884
## - Global.Store.Transactions  1    0.00905 0.81943
## - Issued.IPC          1    0.00972 0.82010
## - Executed.Load.Store.Instructions  1    0.01269 0.82307
## - Eligible.Warps.Per.Active.Cycle  1    0.01414 0.82452
## - Executed.Control.Flow.Instructions  1    0.01550 0.82588
## - Issue.Slot.Utilization  1    0.01560 0.82598
## - Global.Load.Transactions.Per.Request  1    0.01681 0.82719
## - Memoryclock         1    0.01722 0.82760
## - fb_subp0_read_sectors  1    0.01907 0.82944
## - L2.Write.Transactions..L1.write.requests.  1    0.01939 0.82976
## - Device.Memory.Read.Transactions  1    0.02262 0.83299
## - Bus                 1    0.02458 0.83496
## - Block.X             1    0.02965 0.84002
## - Shared.Memory.Store.Transactions.Per.Request  1    0.03822 0.84860
## - L2                   1    0.05110 0.86148
## - inst_issued1        1    0.05208 0.86246
## - Misc.Instructions    1    0.06264 0.87302
## - Shared.Store.Transactions  1    0.10801 0.91839
## - Shared.Load.Transactions  1    0.15933 0.96970
## - Instructions.Executed  1    0.16707 0.97745
## - Issued.Control.Flow.Instructions  1    0.23905 1.04942
## - Control.Flow.Instructions  1    0.34424 1.15462
## - ECC.Transactions     1    0.86365 1.67403
##
##              AIC
## - Grid.X          -1511.7
## - Issue.Slots      -1511.6
## - Instructions.Issued  -1511.6
## - inst_issued2      -1511.6

```

```

## - Global.Load.Transactions -1511.2
## - L2.Write.Transactions -1511.2
## - fb_subp0_write_sectors -1511.1
## - fb_subp1_write_sectors -1511.1
## - L2.Read.Transactions -1511.0
## - FLOP.Efficiency.Peak.Single. -1511.0
## <none> -1510.0
## - Issued.Load.Store.Instructions -1509.3
## - Instructions.per.warp -1509.1
## - Global.Store.Transactions -1509.0
## - Issued.IPC -1508.7
## - Executed.Load.Store.Instructions -1507.7
## - Eligible.Warps.Per.Active.Cycle -1507.3
## - Executed.Control.Flow.Instructions -1506.8
## - Issue.Slot.Utilization -1506.8
## - Global.Load.Transactions.Per.Request -1506.4
## - Memoryclock -1506.2
## - fb_subp0_read_sectors -1505.6
## - L2.Write.Transactions..L1.write.requests. -1505.5
## - Device.Memory.Read.Transactions -1504.5
## - Bus -1503.8
## - Block.X -1502.2
## - Shared.Memory.Store.Transactions.Per.Request -1499.4
## - L2 -1495.3
## - inst_issued1 -1495.0
## - Misc.Instructions -1491.7
## - Shared.Store.Transactions -1477.9
## - Shared.Load.Transactions -1463.2
## - Instructions.Executed -1461.0
## - Issued.Control.Flow.Instructions -1441.7
## - Control.Flow.Instructions -1415.7
## - ECC.Transactions -1314.6
##
## Step: AIC=-1511.67
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Issued.IPC +
## Instructions.per.warp + Issue.Slot.Utilization + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Shared.Load.Transactions +
## Shared.Store.Transactions + Global.Load.Transactions + Global.Store.Transactions +
## Device.Memory.Read.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Instructions.Executed +
## Instructions.Issued + Issue.Slots + Control.Flow.Instructions +
## Misc.Instructions + L2.Write.Transactions..L1.write.requests. +
## ECC.Transactions + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp0_write_sectors + fb_subp1_write_sectors +
## inst_issued1 + inst_issued2 + Block.X
##
##
## Df Sum of Sq RSS
## - Issue.Slots 1 0.00106 0.81234
## - Instructions.Issued 1 0.00106 0.81234
## - inst_issued2 1 0.00106 0.81234
## - fb_subp0_write_sectors 1 0.00242 0.81370
## - fb_subp1_write_sectors 1 0.00257 0.81385

```



## - Global.Load.Transactions	1	0.00273	0.81400
## - L2.Read.Transactions	1	0.00300	0.81428
## - FLOP.Efficiency.Peak.Single.	1	0.00312	0.81440
## - L2.Write.Transactions	1	0.00398	0.81526
## <none>			0.81128
## - Issued.Load.Store.Instructions	1	0.00775	0.81902
## - Issued.IPC	1	0.01123	0.82250
## - Executed.Load.Store.Instructions	1	0.01252	0.82380
## - Eligible.Warps.Per.Active.Cycle	1	0.01336	0.82463
## - Executed.Control.Flow.Instructions	1	0.01594	0.82722
## - Memoryclock	1	0.01657	0.82785
## - Issue.Slot.Utilization	1	0.01776	0.82904
## - Global.Load.Transactions.Per.Request	1	0.01824	0.82952
## - fb_subp0_read_sectors	1	0.01895	0.83022
## - L2.Write.Transactions..L1.write.requests.	1	0.02061	0.83189
## - Device.Memory.Read.Transactions	1	0.02279	0.83407
## - Bus	1	0.02406	0.83534
## - Block.X	1	0.03021	0.84148
## - Instructions.per.warp	1	0.03482	0.84610
## - Shared.Memory.Store.Transactions.Per.Request	1	0.04030	0.85158
## - L2	1	0.05021	0.86149
## - inst_issued1	1	0.05136	0.86264
## - Misc.Instructions	1	0.06174	0.87302
## - Global.Store.Transactions	1	0.10226	0.91353
## - Shared.Store.Transactions	1	0.10892	0.92020
## - Shared.Load.Transactions	1	0.15866	0.96993
## - Instructions.Executed	1	0.16664	0.97792
## - Issued.Control.Flow.Instructions	1	0.23981	1.05109
## - Control.Flow.Instructions	1	0.34391	1.15518
## - ECC.Transactions	1	0.86430	1.67558
##		AIC	
## - Issue.Slots	-1513.3		
## - Instructions.Issued	-1513.3		
## - inst_issued2	-1513.3		
## - fb_subp0_write_sectors	-1512.8		
## - fb_subp1_write_sectors	-1512.8		
## - Global.Load.Transactions	-1512.8		
## - L2.Read.Transactions	-1512.7		
## - FLOP.Efficiency.Peak.Single.	-1512.6		
## - L2.Write.Transactions	-1512.3		
## <none>	-1511.7		
## - Issued.Load.Store.Instructions	-1511.1		
## - Issued.IPC	-1509.9		
## - Executed.Load.Store.Instructions	-1509.5		
## - Eligible.Warps.Per.Active.Cycle	-1509.2		
## - Executed.Control.Flow.Instructions	-1508.4		
## - Memoryclock	-1508.2		
## - Issue.Slot.Utilization	-1507.8		
## - Global.Load.Transactions.Per.Request	-1507.6		
## - fb_subp0_read_sectors	-1507.4		
## - L2.Write.Transactions..L1.write.requests.	-1506.8		
## - Device.Memory.Read.Transactions	-1506.1		
## - Bus	-1505.7		
## - Block.X	-1503.7		

```

## - Instructions.per.warp -1502.2
## - Shared.Memory.Store.Transactions.Per.Request -1500.5
## - L2 -1497.3
## - inst_issued1 -1497.0
## - Misc.Instructions -1493.7
## - Global.Store.Transactions -1481.4
## - Shared.Store.Transactions -1479.4
## - Shared.Load.Transactions -1465.1
## - Instructions.Executed -1462.8
## - Issued.Control.Flow.Instructions -1443.2
## - Control.Flow.Instructions -1417.5
## - ECC.Transactions -1316.4
##
## Step: AIC=-1513.31
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Issued.IPC +
## Instructions.per.warp + Issue.Slot.Utilization + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Shared.Load.Transactions +
## Shared.Store.Transactions + Global.Load.Transactions + Global.Store.Transactions +
## Device.Memory.Read.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Instructions.Executed +
## Instructions.Issued + Control.Flow.Instructions + Misc.Instructions +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp0_write_sectors + fb_subp1_write_sectors +
## inst_issued1 + inst_issued2 + Block.X
##
##
## Df Sum of Sq RSS
## - fb_subp0_write_sectors 1 0.00244 0.81478
## - fb_subp1_write_sectors 1 0.00259 0.81492
## - Global.Load.Transactions 1 0.00270 0.81503
## - L2.Read.Transactions 1 0.00298 0.81532
## - FLOP.Efficiency.Peak.Single. 1 0.00328 0.81562
## - L2.Write.Transactions 1 0.00395 0.81628
## <none> 0.81234
## - Issued.Load.Store.Instructions 1 0.00777 0.82011
## - Issued.IPC 1 0.01189 0.82423
## - Executed.Load.Store.Instructions 1 0.01260 0.82494
## - Eligible.Warps.Per.Active.Cycle 1 0.01309 0.82543
## - Executed.Control.Flow.Instructions 1 0.01593 0.82827
## - Memoryclock 1 0.01651 0.82884
## - Issue.Slot.Utilization 1 0.01865 0.83099
## - Global.Load.Transactions.Per.Request 1 0.01878 0.83112
## - fb_subp0_read_sectors 1 0.01898 0.83131
## - Instructions.Issued 1 0.01916 0.83149
## - L2.Write.Transactions..L1.write.requests. 1 0.02079 0.83313
## - Device.Memory.Read.Transactions 1 0.02284 0.83518
## - Bus 1 0.02444 0.83677
## - Block.X 1 0.03142 0.84375
## - Instructions.per.warp 1 0.03445 0.84678
## - Shared.Memory.Store.Transactions.Per.Request 1 0.04172 0.85406
## - L2 1 0.05080 0.86313
## - inst_issued1 1 0.05142 0.86376

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## - inst_issued2          1  0.05425 0.86658
## - Misc.Instructions     1  0.06120 0.87354
## - Global.Store.Transactions 1  0.10130 0.91364
## - Shared.Store.Transactions 1  0.10993 0.92226
## - Shared.Load.Transactions 1  0.16124 0.97358
## - Instructions.Executed   1  0.16962 0.98196
## - Issued.Control.Flow.Instructions 1  0.23922 1.05156
## - Control.Flow.Instructions 1  0.35164 1.16397
## - ECC.Transactions       1  0.86669 1.67902
##                               AIC
## - fb_subp0_write_sectors -1514.5
## - fb_subp1_write_sectors -1514.5
## - Global.Load.Transactions -1514.4
## - L2.Read.Transactions    -1514.3
## - FLOP.Efficiency.Peak.Single. -1514.2
## - L2.Write.Transactions   -1514.0
## <none>                    -1513.3
## - Issued.Load.Store.Instructions -1512.7
## - Issued.IPC              -1511.4
## - Executed.Load.Store.Instructions -1511.1
## - Eligible.Warps.Per.Active.Cycle -1511.0
## - Executed.Control.Flow.Instructions -1510.0
## - Memoryclock             -1509.8
## - Issue.Slot.Utilization  -1509.1
## - Global.Load.Transactions.Per.Request -1509.1
## - fb_subp0_read_sectors   -1509.0
## - Instructions.Issued      -1509.0
## - L2.Write.Transactions..L1.write.requests. -1508.4
## - Device.Memory.Read.Transactions -1507.8
## - Bus                     -1507.2
## - Block.X                 -1505.0
## - Instructions.per.warp    -1504.0
## - Shared.Memory.Store.Transactions.Per.Request -1501.7
## - L2                      -1498.8
## - inst_issued1            -1498.6
## - inst_issued2            -1497.7
## - Misc.Instructions       -1495.5
## - Global.Store.Transactions -1483.3
## - Shared.Store.Transactions -1480.8
## - Shared.Load.Transactions -1466.1
## - Instructions.Executed    -1463.7
## - Issued.Control.Flow.Instructions -1445.1
## - Control.Flow.Instructions -1417.5
## - ECC.Transactions        -1317.8
##
## Step: AIC=-1514.5
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Issued.IPC +
##   Instructions.per.warp + Issue.Slot.Utilization + Shared.Memory.Store.Transactions.Per.Request +
##   Global.Load.Transactions.Per.Request + Shared.Load.Transactions +
##   Shared.Store.Transactions + Global.Load.Transactions + Global.Store.Transactions +
##   Device.Memory.Read.Transactions + L2.Read.Transactions +
##   L2.Write.Transactions + Issued.Control.Flow.Instructions +
##   Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##   Executed.Load.Store.Instructions + Instructions.Executed +

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##      Instructions.Issued + Control.Flow.Instructions + Misc.Instructions +
##      L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
##      Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##      fb_subp0_read_sectors + fb_subp1_write_sectors + inst_issued1 +
##      inst_issued2 + Block.X
##
##
##      Df Sum of Sq      RSS
## - Global.Load.Transactions      1    0.00239 0.81716
## - FLOP.Efficiency.Peak.Single.   1    0.00349 0.81827
## - L2.Write.Transactions          1    0.00404 0.81882
## <none>                          0.81478
## - Issued.Load.Store.Instructions 1    0.00754 0.82231
## - Issued.IPC                    1    0.01183 0.82661
## - Executed.Load.Store.Instructions 1    0.01237 0.82714
## - Eligible.Warps.Per.Active.Cycle 1    0.01452 0.82929
## - Executed.Control.Flow.Instructions 1    0.01577 0.83054
## - Memoryclock                   1    0.01700 0.83178
## - Issue.Slot.Utilization         1    0.01851 0.83328
## - Instructions.Issued            1    0.01890 0.83367
## - fb_subp0_read_sectors          1    0.01924 0.83402
## - Global.Load.Transactions.Per.Request 1    0.01972 0.83450
## - L2.Write.Transactions..L1.write.requests. 1    0.02086 0.83564
## - Device.Memory.Read.Transactions 1    0.02261 0.83739
## - Bus                           1    0.02605 0.84083
## - Block.X                       1    0.03178 0.84656
## - L2.Read.Transactions           1    0.03198 0.84676
## - Instructions.per.warp          1    0.03665 0.85143
## - Shared.Memory.Store.Transactions.Per.Request 1    0.04207 0.85684
## - inst_issued1                  1    0.05073 0.86551
## - inst_issued2                  1    0.05351 0.86828
## - L2                            1    0.05352 0.86830
## - Misc.Instructions              1    0.06030 0.87508
## - Global.Store.Transactions       1    0.10486 0.91964
## - Shared.Store.Transactions       1    0.10937 0.92414
## - Shared.Load.Transactions        1    0.15958 0.97436
## - Instructions.Executed           1    0.16798 0.98275
## - Issued.Control.Flow.Instructions 1    0.23680 1.05158
## - fb_subp1_write_sectors         1    0.26184 1.07661
## - Control.Flow.Instructions       1    0.34988 1.16466
## - ECC.Transactions               1    0.87050 1.68528
##
##      AIC
## - Global.Load.Transactions      -1515.7
## - FLOP.Efficiency.Peak.Single.   -1515.3
## - L2.Write.Transactions          -1515.2
## <none>                          -1514.5
## - Issued.Load.Store.Instructions -1514.0
## - Issued.IPC                    -1512.6
## - Executed.Load.Store.Instructions -1512.4
## - Eligible.Warps.Per.Active.Cycle -1511.7
## - Executed.Control.Flow.Instructions -1511.3
## - Memoryclock                   -1510.9
## - Issue.Slot.Utilization         -1510.4
## - Instructions.Issued            -1510.3
## - fb_subp0_read_sectors          -1510.2

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```

## - Global.Load.Transactions.Per.Request      -1510.0
## - L2.Write.Transactions..L1.write.requests. -1509.6
## - Device.Memory.Read.Transactions           -1509.0
## - Bus                                       -1507.9
## - Block.X                                 -1506.1
## - L2.Read.Transactions                     -1506.0
## - Instructions.per.warp                     -1504.5
## - Shared.Memory.Store.Transactions.Per.Request -1502.8
## - inst_issued1                             -1500.1
## - inst_issued2                             -1499.2
## - L2                                       -1499.2
## - Misc.Instructions                       -1497.1
## - Global.Store.Transactions                -1483.6
## - Shared.Store.Transactions                -1482.2
## - Shared.Load.Transactions                 -1467.8
## - Instructions.Executed                    -1465.5
## - Issued.Control.Flow.Instructions         -1447.1
## - fb_subp1_write_sectors                   -1440.7
## - Control.Flow.Instructions                -1419.3
## - ECC.Transactions                         -1318.8
##
## Step: AIC=-1515.7
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Issued.IPC +
##   Instructions.per.warp + Issue.Slot.Utilization + Shared.Memory.Store.Transactions.Per.Request +
##   Global.Load.Transactions.Per.Request + Shared.Load.Transactions +
##   Shared.Store.Transactions + Global.Store.Transactions + Device.Memory.Read.Transactions +
##   L2.Read.Transactions + L2.Write.Transactions + Issued.Control.Flow.Instructions +
##   Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##   Executed.Load.Store.Instructions + Instructions.Executed +
##   Instructions.Issued + Control.Flow.Instructions + Misc.Instructions +
##   L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
##   Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##   fb_subp0_read_sectors + fb_subp1_write_sectors + inst_issued1 +
##   inst_issued2 + Block.X
##
##
##              Df Sum of Sq    RSS
## - L2.Write.Transactions      1  0.00358 0.82074
## <none>                      0.81716
## - FLOP.Efficiency.Peak.Single. 1  0.00644 0.82360
## - Issued.Load.Store.Instructions 1  0.00747 0.82463
## - Executed.Load.Store.Instructions 1  0.01242 0.82959
## - Executed.Control.Flow.Instructions 1  0.01363 0.83079
## - Issued.IPC                 1  0.01422 0.83138
## - L2.Write.Transactions..L1.write.requests. 1  0.01871 0.83587
## - Instructions.Issued        1  0.01934 0.83650
## - Memoryclock                1  0.01950 0.83666
## - fb_subp0_read_sectors      1  0.01992 0.83708
## - Device.Memory.Read.Transactions 1  0.02102 0.83818
## - Issue.Slot.Utilization     1  0.02162 0.83879
## - Eligible.Warps.Per.Active.Cycle 1  0.02211 0.83927
## - Global.Load.Transactions.Per.Request 1  0.02878 0.84594
## - L2.Read.Transactions       1  0.03301 0.85017
## - Instructions.per.warp      1  0.03501 0.85217
## - Bus                        1  0.04076 0.85792

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## - Block.X 1 0.04199 0.85915
## - Shared.Memory.Store.Transactions.Per.Request 1 0.05078 0.86794
## - inst_issued1 1 0.05459 0.87175
## - inst_issued2 1 0.05666 0.87382
## - Misc.Instructions 1 0.06343 0.88059
## - L2 1 0.08368 0.90084
## - Global.Store.Transactions 1 0.10287 0.92003
## - Shared.Store.Transactions 1 0.10988 0.92704
## - Shared.Load.Transactions 1 0.15720 0.97437
## - Instructions.Executed 1 0.16578 0.98294
## - Issued.Control.Flow.Instructions 1 0.26814 1.08530
## - fb_subp1_write_sectors 1 0.26837 1.08553
## - Control.Flow.Instructions 1 0.39037 1.20753
## - ECC.Transactions 1 0.93642 1.75358
## AIC
## - L2.Write.Transactions -1516.5
## <none> -1515.7
## - FLOP.Efficiency.Peak.Single. -1515.6
## - Issued.Load.Store.Instructions -1515.2
## - Executed.Load.Store.Instructions -1513.6
## - Executed.Control.Flow.Instructions -1513.2
## - Issued.IPC -1513.0
## - L2.Write.Transactions..L1.write.requests. -1511.5
## - Instructions.Issued -1511.3
## - Memoryclock -1511.3
## - fb_subp0_read_sectors -1511.2
## - Device.Memory.Read.Transactions -1510.8
## - Issue.Slot.Utilization -1510.6
## - Eligible.Warps.Per.Active.Cycle -1510.4
## - Global.Load.Transactions.Per.Request -1508.3
## - L2.Read.Transactions -1506.9
## - Instructions.per.warp -1506.3
## - Bus -1504.5
## - Block.X -1504.1
## - Shared.Memory.Store.Transactions.Per.Request -1501.3
## - inst_issued1 -1500.1
## - inst_issued2 -1499.5
## - Misc.Instructions -1497.4
## - L2 -1491.2
## - Global.Store.Transactions -1485.5
## - Shared.Store.Transactions -1483.4
## - Shared.Load.Transactions -1469.8
## - Instructions.Executed -1467.5
## - Issued.Control.Flow.Instructions -1440.5
## - fb_subp1_write_sectors -1440.5
## - Control.Flow.Instructions -1411.5
## - ECC.Transactions -1310.0
##
## Step: AIC=-1516.51
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Issued.IPC +
## Instructions.per.warp + Issue.Slot.Utilization + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Shared.Load.Transactions +
## Shared.Store.Transactions + Global.Store.Transactions + Device.Memory.Read.Transactions +
## L2.Read.Transactions + Issued.Control.Flow.Instructions +

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## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Instructions.Executed +
## Instructions.Issued + Control.Flow.Instructions + Misc.Instructions +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_write_sectors + inst_issued1 +
## inst_issued2 + Block.X
##
##
## Df Sum of Sq RSS
## - FLOP.Efficiency.Peak.Single. 1 0.00554 0.82628
## <none> 0.82074
## - Issued.Load.Store.Instructions 1 0.00719 0.82793
## - Executed.Load.Store.Instructions 1 0.01215 0.83289
## - Issued.IPC 1 0.01332 0.83406
## - Executed.Control.Flow.Instructions 1 0.01490 0.83564
## - Memoryclock 1 0.01856 0.83930
## - Instructions.Issued 1 0.02030 0.84104
## - Issue.Slot.Utilization 1 0.02054 0.84129
## - fb_subp0_read_sectors 1 0.02059 0.84134
## - Device.Memory.Read.Transactions 1 0.02094 0.84168
## - Eligible.Warps.Per.Active.Cycle 1 0.02122 0.84197
## - L2.Write.Transactions..L1.write.requests. 1 0.02292 0.84366
## - Global.Load.Transactions.Per.Request 1 0.02722 0.84796
## - L2.Read.Transactions 1 0.03259 0.85333
## - Bus 1 0.03890 0.85964
## - Block.X 1 0.03984 0.86058
## - Instructions.per.warp 1 0.04010 0.86084
## - Shared.Memory.Store.Transactions.Per.Request 1 0.04881 0.86956
## - inst_issued1 1 0.05533 0.87607
## - inst_issued2 1 0.05746 0.87820
## - Misc.Instructions 1 0.05999 0.88073
## - L2 1 0.08094 0.90168
## - Shared.Store.Transactions 1 0.10810 0.92885
## - Global.Store.Transactions 1 0.10824 0.92898
## - Shared.Load.Transactions 1 0.15388 0.97463
## - Instructions.Executed 1 0.16243 0.98317
## - Issued.Control.Flow.Instructions 1 0.26463 1.08537
## - fb_subp1_write_sectors 1 0.26479 1.08554
## - Control.Flow.Instructions 1 0.38679 1.20753
## - ECC.Transactions 1 0.96299 1.78374
##
## AIC
## - FLOP.Efficiency.Peak.Single. -1516.7
## <none> -1516.5
## - Issued.Load.Store.Instructions -1516.1
## - Executed.Load.Store.Instructions -1514.5
## - Issued.IPC -1514.1
## - Executed.Control.Flow.Instructions -1513.6
## - Memoryclock -1512.4
## - Instructions.Issued -1511.9
## - Issue.Slot.Utilization -1511.8
## - fb_subp0_read_sectors -1511.8
## - Device.Memory.Read.Transactions -1511.7
## - Eligible.Warps.Per.Active.Cycle -1511.6
## - L2.Write.Transactions..L1.write.requests. -1511.0

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## - Global.Load.Transactions.Per.Request      -1509.6
## - L2.Read.Transactions                      -1507.9
## - Bus                                       -1505.9
## - Block.X                                  -1505.6
## - Instructions.per.warp                     -1505.5
## - Shared.Memory.Store.Transactions.Per.Request -1502.8
## - inst_issued1                             -1500.8
## - inst_issued2                             -1500.1
## - Misc.Instructions                         -1499.3
## - L2                                       -1492.9
## - Shared.Store.Transactions                 -1484.9
## - Global.Store.Transactions                 -1484.8
## - Shared.Load.Transactions                  -1471.8
## - Instructions.Executed                     -1469.4
## - Issued.Control.Flow.Instructions          -1442.5
## - fb_subp1_write_sectors                   -1442.5
## - Control.Flow.Instructions                 -1413.5
## - ECC.Transactions                         -1307.4
##
## Step: AIC=-1516.68
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Issued.IPC +
##   Instructions.per.warp + Issue.Slot.Utilization + Shared.Memory.Store.Transactions.Per.Request +
##   Global.Load.Transactions.Per.Request + Shared.Load.Transactions +
##   Shared.Store.Transactions + Global.Store.Transactions + Device.Memory.Read.Transactions +
##   L2.Read.Transactions + Issued.Control.Flow.Instructions +
##   Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##   Executed.Load.Store.Instructions + Instructions.Executed +
##   Instructions.Issued + Control.Flow.Instructions + Misc.Instructions +
##   L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
##   Eligible.Warps.Per.Active.Cycle + fb_subp0_read_sectors +
##   fb_subp1_write_sectors + inst_issued1 + inst_issued2 + Block.X
##
##                                     Df Sum of Sq    RSS
## <none>                                     0.82628
## - Issued.Load.Store.Instructions           1  0.00802 0.83430
## - Issued.IPC                               1  0.00840 0.83468
## - Executed.Load.Store.Instructions          1  0.01301 0.83929
## - Executed.Control.Flow.Instructions        1  0.01626 0.84254
## - Issue.Slot.Utilization                    1  0.01659 0.84288
## - Eligible.Warps.Per.Active.Cycle           1  0.01767 0.84395
## - fb_subp0_read_sectors                     1  0.01941 0.84569
## - Instructions.Issued                       1  0.02104 0.84733
## - Device.Memory.Read.Transactions            1  0.02132 0.84760
## - Memoryclock                              1  0.02144 0.84773
## - L2.Write.Transactions..L1.write.requests. 1  0.02971 0.85599
## - Global.Load.Transactions.Per.Request       1  0.03114 0.85743
## - L2.Read.Transactions                      1  0.03361 0.85990
## - Bus                                       1  0.04055 0.86683
## - Instructions.per.warp                     1  0.05317 0.87946
## - Misc.Instructions                         1  0.05757 0.88385
## - inst_issued1                             1  0.05793 0.88422
## - Block.X                                  1  0.05802 0.88430
## - inst_issued2                             1  0.06029 0.88657
## - Shared.Memory.Store.Transactions.Per.Request 1  0.06081 0.88709

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## - Shared.Store.Transactions          1  0.10335 0.92964
## - Global.Store.Transactions          1  0.11366 0.93994
## - L2                                1  0.12035 0.94663
## - Shared.Load.Transactions           1  0.16525 0.99153
## - Instructions.Executed               1  0.17391 1.00020
## - Issued.Control.Flow.Instructions   1  0.26330 1.08958
## - fb_subp1_write_sectors             1  0.26501 1.09129
## - Control.Flow.Instructions           1  0.40441 1.23070
## - ECC.Transactions                   1  0.96466 1.79094
##                                     AIC
## <none>                               -1516.7
## - Issued.Load.Store.Instructions      -1516.0
## - Issued.IPC                         -1515.9
## - Executed.Load.Store.Instructions    -1514.4
## - Executed.Control.Flow.Instructions -1513.4
## - Issue.Slot.Utilization              -1513.3
## - Eligible.Warps.Per.Active.Cycle    -1512.9
## - fb_subp0_read_sectors               -1512.4
## - Instructions.Issued                  -1511.8
## - Device.Memory.Read.Transactions     -1511.8
## - Memoryclock                         -1511.7
## - L2.Write.Transactions..L1.write.requests. -1509.1
## - Global.Load.Transactions.Per.Request -1508.6
## - L2.Read.Transactions                 -1507.8
## - Bus                                 -1505.7
## - Instructions.per.warp                -1501.7
## - Misc.Instructions                   -1500.4
## - inst_issued1                        -1500.2
## - Block.X                             -1500.2
## - inst_issued2                        -1499.5
## - Shared.Memory.Store.Transactions.Per.Request -1499.4
## - Shared.Store.Transactions           -1486.6
## - Global.Store.Transactions           -1483.6
## - L2                                  -1481.7
## - Shared.Load.Transactions            -1469.1
## - Instructions.Executed                -1466.7
## - Issued.Control.Flow.Instructions    -1443.4
## - fb_subp1_write_sectors              -1443.0
## - Control.Flow.Instructions            -1410.3
## - ECC.Transactions                    -1308.3
## Start:  AIC=-6261.74
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##   Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##   Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##   Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##   Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
##   Global.Store.Transactions + Device.Memory.Read.Transactions +
##   Device.Memory.Write.Transactions + L2.Read.Transactions +
##   L2.Write.Transactions + Issued.Control.Flow.Instructions +
##   Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##   Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
##   Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
##   Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
##   Control.Flow.Instructions + Misc.Instructions + L2.Read.Transactions..L1.read.requests. +

```

```

##      L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
##      Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##      fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##      fb_subp1_write_sectors + warps_launched + threads_launched +
##      inst_executed + inst_issued1 + inst_issued2 + gld_inst_32bit +
##      gst_inst_32bit + gld_request + gst_request + Grid.X + Block.X
##
##
## Step:  AIC=-6261.74
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##      Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##      Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
##      Global.Store.Transactions + Device.Memory.Read.Transactions +
##      Device.Memory.Write.Transactions + L2.Read.Transactions +
##      L2.Write.Transactions + Issued.Control.Flow.Instructions +
##      Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##      Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
##      Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
##      Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
##      Control.Flow.Instructions + Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
##      L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
##      Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##      fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##      fb_subp1_write_sectors + warps_launched + threads_launched +
##      inst_executed + inst_issued1 + inst_issued2 + gld_inst_32bit +
##      gst_inst_32bit + gld_request + gst_request + Grid.X
##
##
## Step:  AIC=-6261.74
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##      Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##      Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
##      Global.Store.Transactions + Device.Memory.Read.Transactions +
##      Device.Memory.Write.Transactions + L2.Read.Transactions +
##      L2.Write.Transactions + Issued.Control.Flow.Instructions +
##      Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##      Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
##      Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
##      Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
##      Control.Flow.Instructions + Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
##      L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
##      Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##      fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##      fb_subp1_write_sectors + warps_launched + threads_launched +
##      inst_executed + inst_issued1 + inst_issued2 + gld_inst_32bit +
##      gst_inst_32bit + gld_request + Grid.X
##
##
## Step:  AIC=-6261.74
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +

```

```

## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
## Control.Flow.Instructions + Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + warps_launched + threads_launched +
## inst_executed + inst_issued1 + inst_issued2 + gld_inst_32bit +
## gst_inst_32bit + Grid.X
##
##
## Step: AIC=-6261.74
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
## Control.Flow.Instructions + Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + warps_launched + threads_launched +
## inst_executed + inst_issued1 + inst_issued2 + gld_inst_32bit +
## Grid.X
##
##
## Step: AIC=-6261.74
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +

```

```

## Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
## Control.Flow.Instructions + Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + warps_launched + threads_launched +
## inst_executed + inst_issued1 + inst_issued2 + Grid.X
##
##
## Step: AIC=-6261.74
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
## Control.Flow.Instructions + Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + warps_launched + threads_launched +
## inst_issued1 + inst_issued2 + Grid.X
##
##
## Step: AIC=-6261.74
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
## Control.Flow.Instructions + Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + warps_launched + inst_issued1 +
## inst_issued2 + Grid.X
##
##
## Step: AIC=-6261.74
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +

```

```

## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
## Control.Flow.Instructions + Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + inst_issued1 + inst_issued2 + Grid.X
##
##
## Step: AIC=-6261.74
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
## Control.Flow.Instructions + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + inst_issued1 + inst_issued2 + Grid.X
##
##
## Step: AIC=-6261.74
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
## L2.Read.Transactions..L1.read.requests. + L2.Write.Transactions..L1.write.requests. +
## ECC.Transactions + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + inst_issued1 + inst_issued2 + Grid.X

```

```

##
##
## Step: AIC=-6261.74
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + inst_issued1 + inst_issued2 + Grid.X
##
##
## Step: AIC=-6261.74
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Issued +
## Issue.Slots + L2.Read.Transactions..L1.read.requests. + L2.Write.Transactions..L1.write.requests
## ECC.Transactions + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + inst_issued1 + inst_issued2 + Grid.X
##
##
## Step: AIC=-6261.74
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Instructions.Issued + Issue.Slots + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +

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##      fb_subp1_write_sectors + inst_issued1 + inst_issued2 + Grid.X
##
##
## Step:  AIC=-6261.74
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##      Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##      Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
##      Global.Store.Transactions + Device.Memory.Read.Transactions +
##      Device.Memory.Write.Transactions + L2.Read.Transactions +
##      L2.Write.Transactions + Issued.Control.Flow.Instructions +
##      Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##      Executed.Load.Store.Instructions + Instructions.Issued +
##      Issue.Slots + L2.Read.Transactions..L1.read.requests. + L2.Write.Transactions..L1.write.requests
##      ECC.Transactions + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##      fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##      fb_subp1_write_sectors + inst_issued1 + inst_issued2 + Grid.X
##
##
## Step:  AIC=-6261.74
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##      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.Transactions + L2.Write.Transactions + Issued.Control.Flow.Instructions +
##      Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##      Executed.Load.Store.Instructions + Instructions.Issued +
##      Issue.Slots + L2.Read.Transactions..L1.read.requests. + L2.Write.Transactions..L1.write.requests
##      ECC.Transactions + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##      fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##      fb_subp1_write_sectors + inst_issued1 + inst_issued2 + Grid.X
##
##
## Step:  AIC=-6261.74
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##      Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##      Shared.Load.Transactions + Global.Load.Transactions + Device.Memory.Read.Transactions +
##      Device.Memory.Write.Transactions + L2.Read.Transactions +
##      L2.Write.Transactions + Issued.Control.Flow.Instructions +
##      Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##      Executed.Load.Store.Instructions + Instructions.Issued +
##      Issue.Slots + L2.Read.Transactions..L1.read.requests. + L2.Write.Transactions..L1.write.requests
##      ECC.Transactions + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##      fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##      fb_subp1_write_sectors + inst_issued1 + inst_issued2 + Grid.X
##
##
## Step:  AIC=-6261.74
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +

```

```

##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##      Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##      Global.Load.Transactions + Device.Memory.Read.Transactions +
##      Device.Memory.Write.Transactions + L2.Read.Transactions +
##      L2.Write.Transactions + Issued.Control.Flow.Instructions +
##      Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##      Executed.Load.Store.Instructions + Instructions.Issued +
##      Issue.Slots + L2.Read.Transactions..L1.read.requests. + L2.Write.Transactions..L1.write.requests
##      ECC.Transactions + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##      fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##      fb_subp1_write_sectors + inst_issued1 + inst_issued2 + Grid.X
##
##
## Step:   AIC=-6261.74
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##      Global.Load.Transactions.Per.Request + Global.Load.Transactions +
##      Device.Memory.Read.Transactions + Device.Memory.Write.Transactions +
##      L2.Read.Transactions + L2.Write.Transactions + Issued.Control.Flow.Instructions +
##      Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##      Executed.Load.Store.Instructions + Instructions.Issued +
##      Issue.Slots + L2.Read.Transactions..L1.read.requests. + L2.Write.Transactions..L1.write.requests
##      ECC.Transactions + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##      fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##      fb_subp1_write_sectors + inst_issued1 + inst_issued2 + Grid.X
##
##
## Step:   AIC=-6261.74
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Global.Load.Transactions.Per.Request +
##      Global.Load.Transactions + Device.Memory.Read.Transactions +
##      Device.Memory.Write.Transactions + L2.Read.Transactions +
##      L2.Write.Transactions + Issued.Control.Flow.Instructions +
##      Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##      Executed.Load.Store.Instructions + Instructions.Issued +
##      Issue.Slots + L2.Read.Transactions..L1.read.requests. + L2.Write.Transactions..L1.write.requests
##      ECC.Transactions + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##      fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##      fb_subp1_write_sectors + inst_issued1 + inst_issued2 + Grid.X
##
##
## Step:   AIC=-6261.74
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Global.Load.Transactions.Per.Request + Global.Load.Transactions +
##      Device.Memory.Read.Transactions + Device.Memory.Write.Transactions +
##      L2.Read.Transactions + L2.Write.Transactions + Issued.Control.Flow.Instructions +
##      Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##      Executed.Load.Store.Instructions + Instructions.Issued +
##      Issue.Slots + L2.Read.Transactions..L1.read.requests. + L2.Write.Transactions..L1.write.requests
##      ECC.Transactions + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +

```



```

##      fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##      fb_subp1_write_sectors + inst_issued1 + inst_issued2 + Grid.X
##
##
## Step:   AIC=-6261.74
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Global.Load.Transactions.Per.Request + Global.Load.Transactions +
##      Device.Memory.Read.Transactions + Device.Memory.Write.Transactions +
##      L2.Read.Transactions + L2.Write.Transactions + Issued.Control.Flow.Instructions +
##      Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##      Executed.Load.Store.Instructions + Instructions.Issued +
##      Issue.Slots + L2.Read.Transactions..L1.read.requests. + L2.Write.Transactions..L1.write.requests
##      ECC.Transactions + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##      fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##      fb_subp1_write_sectors + inst_issued1 + inst_issued2 + Grid.X
##
##
##              Df  Sum of Sq      RSS
## - Instructions.Issued          1 0.00000000 0.0066570
## - Issue.Slots                  1 0.00000000 0.0066570
## - fb_subp1_read_sectors        1 0.00000015 0.0066571
## - L2.Read.Transactions          1 0.00000018 0.0066571
## - FLOP.Efficiency.Peak.Single. 1 0.00000070 0.0066577
## - inst_issued2                  1 0.00000192 0.0066589
## - fb_subp1_write_sectors        1 0.00000349 0.0066604
## - Device.Memory.Write.Transactions 1 0.00000367 0.0066606
## - inst_issued1                  1 0.00000825 0.0066652
## - Instructions.per.warp          1 0.00001947 0.0066764
## - fb_subp0_write_sectors        1 0.00002031 0.0066773
## <none>                                0.0066570
## - L2.Read.Transactions..L1.read.requests. 1 0.00002688 0.0066838
## - Eligible.Warps.Per.Active.Cycle 1 0.00003114 0.0066881
## - L2.Write.Transactions..L1.write.requests. 1 0.00003449 0.0066914
## - Memoryclock                  1 0.00004485 0.0067018
## - fb_subp0_read_sectors        1 0.00005589 0.0067128
## - L2                            1 0.00007048 0.0067274
## - Device.Memory.Read.Transactions 1 0.00008270 0.0067397
## - Executed.Control.Flow.Instructions 1 0.00010262 0.0067596
## - Issued.Control.Flow.Instructions 1 0.00010280 0.0067597
## - Global.Load.Transactions      1 0.00012665 0.0067836
## - Issued.Load.Store.Instructions 1 0.00013410 0.0067911
## - L2.Write.Transactions          1 0.00018686 0.0068438
## - Executed.Load.Store.Instructions 1 0.00028272 0.0069397
## - Bus                          1 0.00036798 0.0070249
## - Input.Size                    1 0.00037601 0.0070330
## - Issued.IPC                    1 0.00044717 0.0071041
## - Issue.Slot.Utilization         1 0.00047714 0.0071341
## - Global.Load.Transactions.Per.Request 1 0.00060024 0.0072572
## - Grid.X                        1 0.00125136 0.0079083
## - ECC.Transactions              1 0.00152374 0.0081807
##
##              AIC
## - Instructions.Issued          -6263.7
## - Issue.Slots                  -6263.7
## - fb_subp1_read_sectors        -6263.7

```

```

## - L2.Read.Transactions -6263.7
## - FLOP.Efficiency.Peak.Single. -6263.7
## - inst_issued2 -6263.6
## - fb_subp1_write_sectors -6263.4
## - Device.Memory.Write.Transactions -6263.4
## - inst_issued1 -6263.0
## - Instructions.per.warp -6262.1
## - fb_subp0_write_sectors -6262.0
## <none> -6261.7
## - L2.Read.Transactions..L1.read.requests. -6261.5
## - Eligible.Warps.Per.Active.Cycle -6261.1
## - L2.Write.Transactions..L1.write.requests. -6260.9
## - Memoryclock -6260.0
## - fb_subp0_read_sectors -6259.1
## - L2 -6257.9
## - Device.Memory.Read.Transactions -6256.9
## - Executed.Control.Flow.Instructions -6255.2
## - Issued.Control.Flow.Instructions -6255.2
## - Global.Load.Transactions -6253.2
## - Issued.Load.Store.Instructions -6252.6
## - L2.Write.Transactions -6248.3
## - Executed.Load.Store.Instructions -6240.5
## - Bus -6233.7
## - Input.Size -6233.1
## - Issued.IPC -6227.5
## - Issue.Slot.Utilization -6225.1
## - Global.Load.Transactions.Per.Request -6215.6
## - Grid.X -6167.6
## - ECC.Transactions -6148.7
##
## Step: AIC=-6263.74
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Global.Load.Transactions.Per.Request + Global.Load.Transactions +
## Device.Memory.Read.Transactions + Device.Memory.Write.Transactions +
## L2.Read.Transactions + L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Issue.Slots + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + inst_issued1 + inst_issued2 + Grid.X
##
##
## Df Sum of Sq RSS
## - fb_subp1_read_sectors 1 0.00000015 0.0066571
## - L2.Read.Transactions 1 0.00000018 0.0066571
## - FLOP.Efficiency.Peak.Single. 1 0.00000071 0.0066577
## - fb_subp1_write_sectors 1 0.00000349 0.0066604
## - Device.Memory.Write.Transactions 1 0.00000367 0.0066606
## - inst_issued1 1 0.00000829 0.0066652
## - Instructions.per.warp 1 0.00001950 0.0066765
## - fb_subp0_write_sectors 1 0.00002031 0.0066773
## <none> 0.0066570
## - L2.Read.Transactions..L1.read.requests. 1 0.00002688 0.0066838

```

## - Eligible.Warps.Per.Active.Cycle	1	0.00003114	0.0066881
## - L2.Write.Transactions..L1.write.requests.	1	0.00003449	0.0066914
## - Memoryclock	1	0.00004523	0.0067022
## - fb_subp0_read_sectors	1	0.00005590	0.0067129
## - L2	1	0.00007051	0.0067275
## - Device.Memory.Read.Transactions	1	0.00008270	0.0067397
## - inst_issued2	1	0.00010356	0.0067605
## - Executed.Control.Flow.Instructions	1	0.00010368	0.0067606
## - Issued.Control.Flow.Instructions	1	0.00010385	0.0067608
## - Global.Load.Transactions	1	0.00012668	0.0067836
## - Issued.Load.Store.Instructions	1	0.00013444	0.0067914
## - Issue.Slots	1	0.00014808	0.0068050
## - L2.Write.Transactions	1	0.00018695	0.0068439
## - Executed.Load.Store.Instructions	1	0.00028286	0.0069398
## - Bus	1	0.00036845	0.0070254
## - Input.Size	1	0.00037778	0.0070347
## - Issued.IPC	1	0.00045151	0.0071085
## - Issue.Slot.Utilization	1	0.00048189	0.0071388
## - Global.Load.Transactions.Per.Request	1	0.00060267	0.0072596
## - Grid.X	1	0.00125610	0.0079131
## - ECC.Transactions	1	0.00152378	0.0081807
##		AIC	
## - fb_subp1_read_sectors	-6265.7		
## - L2.Read.Transactions	-6265.7		
## - FLOP.Efficiency.Peak.Single.	-6265.7		
## - fb_subp1_write_sectors	-6265.4		
## - Device.Memory.Write.Transactions	-6265.4		
## - inst_issued1	-6265.0		
## - Instructions.per.warp	-6264.1		
## - fb_subp0_write_sectors	-6264.0		
## <none>	-6263.7		
## - L2.Read.Transactions..L1.read.requests.	-6263.5		
## - Eligible.Warps.Per.Active.Cycle	-6263.1		
## - L2.Write.Transactions..L1.write.requests.	-6262.9		
## - Memoryclock	-6262.0		
## - fb_subp0_read_sectors	-6261.1		
## - L2	-6259.9		
## - Device.Memory.Read.Transactions	-6258.9		
## - inst_issued2	-6257.1		
## - Executed.Control.Flow.Instructions	-6257.1		
## - Issued.Control.Flow.Instructions	-6257.1		
## - Global.Load.Transactions	-6255.2		
## - Issued.Load.Store.Instructions	-6254.6		
## - Issue.Slots	-6253.5		
## - L2.Write.Transactions	-6250.3		
## - Executed.Load.Store.Instructions	-6242.5		
## - Bus	-6235.7		
## - Input.Size	-6234.9		
## - Issued.IPC	-6229.1		
## - Issue.Slot.Utilization	-6226.7		
## - Global.Load.Transactions.Per.Request	-6217.4		
## - Grid.X	-6169.3		
## - ECC.Transactions	-6150.7		
##			

```

## Step: AIC=-6265.73
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Global.Load.Transactions.Per.Request + Global.Load.Transactions +
## Device.Memory.Read.Transactions + Device.Memory.Write.Transactions +
## L2.Read.Transactions + L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Issue.Slots + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp0_write_sectors + fb_subp1_write_sectors +
## inst_issued1 + inst_issued2 + Grid.X
##
##
## Df Sum of Sq RSS
## - L2.Read.Transactions 1 0.00000017 0.0066573
## - FLOP.Efficiency.Peak.Single. 1 0.00000075 0.0066579
## - fb_subp1_write_sectors 1 0.00000381 0.0066609
## - Device.Memory.Write.Transactions 1 0.00000393 0.0066610
## - inst_issued1 1 0.00000828 0.0066654
## - Instructions.per.warp 1 0.00001978 0.0066769
## - fb_subp0_write_sectors 1 0.00002031 0.0066774
## <none> 0.0066571
## - L2.Read.Transactions..L1.read.requests. 1 0.00002725 0.0066843
## - Eligible.Warps.Per.Active.Cycle 1 0.00003100 0.0066881
## - L2.Write.Transactions..L1.write.requests. 1 0.00003484 0.0066919
## - Memoryclock 1 0.00004551 0.0067026
## - L2 1 0.00007100 0.0067281
## - fb_subp0_read_sectors 1 0.00008043 0.0067375
## - Device.Memory.Read.Transactions 1 0.00009644 0.0067535
## - inst_issued2 1 0.00010341 0.0067605
## - Executed.Control.Flow.Instructions 1 0.00010353 0.0067606
## - Issued.Control.Flow.Instructions 1 0.00010371 0.0067608
## - Global.Load.Transactions 1 0.00012720 0.0067843
## - Issued.Load.Store.Instructions 1 0.00013453 0.0067916
## - Issue.Slots 1 0.00014813 0.0068052
## - L2.Write.Transactions 1 0.00018690 0.0068440
## - Executed.Load.Store.Instructions 1 0.00028667 0.0069438
## - Bus 1 0.00036886 0.0070260
## - Input.Size 1 0.00037821 0.0070353
## - Issued.IPC 1 0.00045230 0.0071094
## - Issue.Slot.Utilization 1 0.00048281 0.0071399
## - Global.Load.Transactions.Per.Request 1 0.00060304 0.0072601
## - Grid.X 1 0.00125648 0.0079136
## - ECC.Transactions 1 0.00153661 0.0081937
##
## AIC
## - L2.Read.Transactions -6267.7
## - FLOP.Efficiency.Peak.Single. -6267.7
## - fb_subp1_write_sectors -6267.4
## - Device.Memory.Write.Transactions -6267.4
## - inst_issued1 -6267.0
## - Instructions.per.warp -6266.1
## - fb_subp0_write_sectors -6266.0
## <none> -6265.7
## - L2.Read.Transactions..L1.read.requests. -6265.4

```

```

## - Eligible.Warps.Per.Active.Cycle -6265.1
## - L2.Write.Transactions..L1.write.requests. -6264.8
## - Memoryclock -6263.9
## - L2 -6261.8
## - fb_subp0_read_sectors -6261.0
## - Device.Memory.Read.Transactions -6259.7
## - inst_issued2 -6259.1
## - Executed.Control.Flow.Instructions -6259.1
## - Issued.Control.Flow.Instructions -6259.1
## - Global.Load.Transactions -6257.2
## - Issued.Load.Store.Instructions -6256.6
## - Issue.Slots -6255.4
## - L2.Write.Transactions -6252.3
## - Executed.Load.Store.Instructions -6244.2
## - Bus -6237.6
## - Input.Size -6236.9
## - Issued.IPC -6231.0
## - Issue.Slot.Utilization -6228.7
## - Global.Load.Transactions.Per.Request -6219.3
## - Grid.X -6171.3
## - ECC.Transactions -6151.8
##
## Step: AIC=-6267.71
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Global.Load.Transactions.Per.Request + Global.Load.Transactions +
## Device.Memory.Read.Transactions + Device.Memory.Write.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Issue.Slots + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp0_write_sectors + fb_subp1_write_sectors +
## inst_issued1 + inst_issued2 + Grid.X
##
##
## Df Sum of Sq RSS
## - FLOP.Efficiency.Peak.Single. 1 0.00000077 0.0066580
## - fb_subp1_write_sectors 1 0.00000372 0.0066610
## - Device.Memory.Write.Transactions 1 0.00000389 0.0066612
## - inst_issued1 1 0.00000834 0.0066656
## - Instructions.per.warp 1 0.00001978 0.0066771
## - fb_subp0_write_sectors 1 0.00002021 0.0066775
## <none> 0.0066573
## - L2.Read.Transactions..L1.read.requests. 1 0.00002708 0.0066844
## - Eligible.Warps.Per.Active.Cycle 1 0.00003089 0.0066882
## - L2.Write.Transactions..L1.write.requests. 1 0.00003467 0.0066919
## - Memoryclock 1 0.00004558 0.0067029
## - L2 1 0.00007116 0.0067284
## - fb_subp0_read_sectors 1 0.00008189 0.0067392
## - Device.Memory.Read.Transactions 1 0.00009812 0.0067554
## - inst_issued2 1 0.00010330 0.0067606
## - Executed.Control.Flow.Instructions 1 0.00010342 0.0067607
## - Issued.Control.Flow.Instructions 1 0.00010359 0.0067609
## - Issued.Load.Store.Instructions 1 0.00013439 0.0067917

```

```

## - Issue.Slots                1 0.00014808 0.0068053
## - L2.Write.Transactions      1 0.00018754 0.0068448
## - Global.Load.Transactions   1 0.00022001 0.0068773
## - Executed.Load.Store.Instructions 1 0.00028862 0.0069459
## - Bus                        1 0.00037212 0.0070294
## - Input.Size                1 0.00037815 0.0070354
## - Issued.IPC                1 0.00045382 0.0071111
## - Issue.Slot.Utilization     1 0.00048435 0.0071416
## - Global.Load.Transactions.Per.Request 1 0.00060720 0.0072645
## - Grid.X                    1 0.00125642 0.0079137
## - ECC.Transactions           1 0.00153750 0.0081948
##                               AIC
## - FLOP.Efficiency.Peak.Single. -6269.6
## - fb_subp1_write_sectors      -6269.4
## - Device.Memory.Write.Transactions -6269.4
## - inst_issued1                -6269.0
## - Instructions.per.warp       -6268.1
## - fb_subp0_write_sectors      -6268.0
## <none>                        -6267.7
## - L2.Read.Transactions..L1.read.requests. -6267.4
## - Eligible.Warps.Per.Active.Cycle -6267.1
## - L2.Write.Transactions..L1.write.requests. -6266.8
## - Memoryclock                -6265.9
## - L2                          -6263.8
## - fb_subp0_read_sectors       -6262.9
## - Device.Memory.Read.Transactions -6261.5
## - inst_issued2                -6261.1
## - Executed.Control.Flow.Instructions -6261.1
## - Issued.Control.Flow.Instructions -6261.1
## - Issued.Load.Store.Instructions -6258.6
## - Issue.Slots                 -6257.4
## - L2.Write.Transactions       -6254.2
## - Global.Load.Transactions    -6251.6
## - Executed.Load.Store.Instructions -6246.0
## - Bus                         -6239.4
## - Input.Size                  -6238.9
## - Issued.IPC                  -6232.9
## - Issue.Slot.Utilization      -6230.5
## - Global.Load.Transactions.Per.Request -6221.0
## - Grid.X                      -6173.2
## - ECC.Transactions            -6153.8
##
## Step: AIC=-6269.65
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Input.Size +
##   Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##   Global.Load.Transactions.Per.Request + Global.Load.Transactions +
##   Device.Memory.Read.Transactions + Device.Memory.Write.Transactions +
##   L2.Write.Transactions + Issued.Control.Flow.Instructions +
##   Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##   Executed.Load.Store.Instructions + Issue.Slots + L2.Read.Transactions..L1.read.requests. +
##   L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
##   Eligible.Warps.Per.Active.Cycle + fb_subp0_read_sectors +
##   fb_subp0_write_sectors + fb_subp1_write_sectors + inst_issued1 +
##   inst_issued2 + Grid.X

```

```

##
##
## - fb_subp1_write_sectors      1 0.00000386 0.0066619
## - Device.Memory.Write.Transactions 1 0.00000392 0.0066620
## - inst_issued1                1 0.00000869 0.0066667
## - Instructions.per.warp        1 0.00001978 0.0066778
## - fb_subp0_write_sectors      1 0.00002047 0.0066785
## <none>                        0.0066580
## - L2.Read.Transactions..L1.read.requests. 1 0.00002704 0.0066851
## - Eligible.Warps.Per.Active.Cycle 1 0.00003082 0.0066889
## - L2.Write.Transactions..L1.write.requests. 1 0.00003494 0.0066930
## - Memoryclock                 1 0.00005567 0.0067137
## - fb_subp0_read_sectors       1 0.00008121 0.0067393
## - L2                          1 0.00008274 0.0067408
## - Device.Memory.Read.Transactions 1 0.00009741 0.0067555
## - inst_issued2               1 0.00010592 0.0067640
## - Executed.Control.Flow.Instructions 1 0.00010605 0.0067641
## - Issued.Control.Flow.Instructions 1 0.00010623 0.0067643
## - Issued.Load.Store.Instructions 1 0.00013365 0.0067917
## - Issue.Slots                 1 0.00014776 0.0068058
## - L2.Write.Transactions       1 0.00018773 0.0068458
## - Global.Load.Transactions    1 0.00022085 0.0068789
## - Executed.Load.Store.Instructions 1 0.00028814 0.0069462
## - Input.Size                 1 0.00037899 0.0070370
## - Bus                         1 0.00039069 0.0070487
## - Issued.IPC                 1 0.00049185 0.0071499
## - Issue.Slot.Utilization      1 0.00051968 0.0071777
## - Global.Load.Transactions.Per.Request 1 0.00061118 0.0072692
## - Grid.X                     1 0.00126503 0.0079231
## - ECC.Transactions            1 0.00155667 0.0082147
##
## AIC
## - fb_subp1_write_sectors      -6271.3
## - Device.Memory.Write.Transactions -6271.3
## - inst_issued1                -6270.9
## - Instructions.per.warp        -6270.0
## - fb_subp0_write_sectors      -6269.9
## <none>                        -6269.6
## - L2.Read.Transactions..L1.read.requests. -6269.4
## - Eligible.Warps.Per.Active.Cycle -6269.1
## - L2.Write.Transactions..L1.write.requests. -6268.7
## - Memoryclock                 -6267.0
## - fb_subp0_read_sectors       -6264.9
## - L2                          -6264.8
## - Device.Memory.Read.Transactions -6263.5
## - inst_issued2               -6262.8
## - Executed.Control.Flow.Instructions -6262.8
## - Issued.Control.Flow.Instructions -6262.8
## - Issued.Load.Store.Instructions -6260.6
## - Issue.Slots                 -6259.4
## - L2.Write.Transactions       -6256.1
## - Global.Load.Transactions    -6253.4
## - Executed.Load.Store.Instructions -6248.0
## - Input.Size                 -6240.8
## - Bus                         -6239.8

```

```

## - Issued.IPC -6231.9
## - Issue.Slot.Utilization -6229.7
## - Global.Load.Transactions.Per.Request -6222.6
## - Grid.X -6174.6
## - ECC.Transactions -6154.4
##
## Step: AIC=-6271.33
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Global.Load.Transactions.Per.Request + Global.Load.Transactions +
## Device.Memory.Read.Transactions + Device.Memory.Write.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Issue.Slots + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + fb_subp0_read_sectors +
## fb_subp0_write_sectors + inst_issued1 + inst_issued2 + Grid.X
##
## Df Sum of Sq RSS
## - Device.Memory.Write.Transactions 1 0.00000073 0.0066626
## - inst_issued1 1 0.00000972 0.0066716
## - fb_subp0_write_sectors 1 0.00001786 0.0066798
## - Instructions.per.warp 1 0.00002041 0.0066823
## <none> 0.0066619
## - L2.Read.Transactions..L1.read.requests. 1 0.00002761 0.0066895
## - Eligible.Warps.Per.Active.Cycle 1 0.00002960 0.0066915
## - L2.Write.Transactions..L1.write.requests. 1 0.00003219 0.0066941
## - Memoryclock 1 0.00005765 0.0067196
## - fb_subp0_read_sectors 1 0.00008118 0.0067431
## - L2 1 0.00008443 0.0067463
## - Device.Memory.Read.Transactions 1 0.00009739 0.0067593
## - inst_issued2 1 0.00010431 0.0067662
## - Executed.Control.Flow.Instructions 1 0.00010444 0.0067663
## - Issued.Control.Flow.Instructions 1 0.00010462 0.0067665
## - Issued.Load.Store.Instructions 1 0.00013091 0.0067928
## - Issue.Slots 1 0.00014678 0.0068087
## - L2.Write.Transactions 1 0.00018923 0.0068511
## - Global.Load.Transactions 1 0.00021715 0.0068791
## - Executed.Load.Store.Instructions 1 0.00029512 0.0069570
## - Input.Size 1 0.00037977 0.0070417
## - Bus 1 0.00039464 0.0070565
## - Issued.IPC 1 0.00048999 0.0071519
## - Issue.Slot.Utilization 1 0.00051779 0.0071797
## - Global.Load.Transactions.Per.Request 1 0.00060777 0.0072697
## - Grid.X 1 0.00126158 0.0079235
## - ECC.Transactions 1 0.00156236 0.0082243
## AIC
## - Device.Memory.Write.Transactions -6273.3
## - inst_issued1 -6272.5
## - fb_subp0_write_sectors -6271.8
## - Instructions.per.warp -6271.6
## <none> -6271.3
## - L2.Read.Transactions..L1.read.requests. -6271.0
## - Eligible.Warps.Per.Active.Cycle -6270.9

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## - L2.Write.Transactions..L1.write.requests. -6270.6
## - Memoryclock -6268.5
## - fb_subp0_read_sectors -6266.6
## - L2 -6266.3
## - Device.Memory.Read.Transactions -6265.2
## - inst_issued2 -6264.7
## - Executed.Control.Flow.Instructions -6264.6
## - Issued.Control.Flow.Instructions -6264.6
## - Issued.Load.Store.Instructions -6262.5
## - Issue.Slots -6261.2
## - L2.Write.Transactions -6257.7
## - Global.Load.Transactions -6255.4
## - Executed.Load.Store.Instructions -6249.1
## - Input.Size -6242.4
## - Bus -6241.2
## - Issued.IPC -6233.7
## - Issue.Slot.Utilization -6231.6
## - Global.Load.Transactions.Per.Request -6224.6
## - Grid.X -6176.6
## - ECC.Transactions -6155.8
##
## Step: AIC=-6273.26
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Global.Load.Transactions.Per.Request + Global.Load.Transactions +
## Device.Memory.Read.Transactions + L2.Write.Transactions +
## Issued.Control.Flow.Instructions + Executed.Control.Flow.Instructions +
## Issued.Load.Store.Instructions + Executed.Load.Store.Instructions +
## Issue.Slots + L2.Read.Transactions..L1.read.requests. + L2.Write.Transactions..L1.write.requests
## ECC.Transactions + Eligible.Warps.Per.Active.Cycle + fb_subp0_read_sectors +
## fb_subp0_write_sectors + inst_issued1 + inst_issued2 + Grid.X
##
##
## Df Sum of Sq RSS
## - inst_issued1 1 0.00001072 0.0066734
## - Instructions.per.warp 1 0.00002047 0.0066831
## <none> 0.0066626
## - L2.Read.Transactions..L1.read.requests. 1 0.00002804 0.0066907
## - Eligible.Warps.Per.Active.Cycle 1 0.00003028 0.0066929
## - L2.Write.Transactions..L1.write.requests. 1 0.00003148 0.0066941
## - Memoryclock 1 0.00005815 0.0067208
## - fb_subp0_read_sectors 1 0.00008304 0.0067457
## - L2 1 0.00008461 0.0067472
## - Device.Memory.Read.Transactions 1 0.00009948 0.0067621
## - inst_issued2 1 0.00010523 0.0067679
## - Executed.Control.Flow.Instructions 1 0.00010536 0.0067680
## - Issued.Control.Flow.Instructions 1 0.00010554 0.0067682
## - Issued.Load.Store.Instructions 1 0.00013153 0.0067942
## - Issue.Slots 1 0.00015188 0.0068145
## - L2.Write.Transactions 1 0.00018885 0.0068515
## - Global.Load.Transactions 1 0.00021668 0.0068793
## - Executed.Load.Store.Instructions 1 0.00029614 0.0069588
## - Input.Size 1 0.00037929 0.0070419
## - Bus 1 0.00039473 0.0070574
## - Issued.IPC 1 0.00049049 0.0071531

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## - Issue.Slot.Utilization          1 0.00051831 0.0071809
## - Global.Load.Transactions.Per.Request 1 0.00060816 0.0072708
## - Grid.X                          1 0.00126088 0.0079235
## - ECC.Transactions                1 0.00156163 0.0082243
## - fb_subp0_write_sectors          1 0.00270321 0.0093659
##                                  AIC
## - inst_issued1                    -6274.4
## - Instructions.per.warp            -6273.6
## <none>                             -6273.3
## - L2.Read.Transactions..L1.read.requests. -6272.9
## - Eligible.Warps.Per.Active.Cycle -6272.7
## - L2.Write.Transactions..L1.write.requests. -6272.6
## - Memoryclock                     -6270.4
## - fb_subp0_read_sectors            -6268.4
## - L2                              -6268.2
## - Device.Memory.Read.Transactions -6267.0
## - inst_issued2                    -6266.5
## - Executed.Control.Flow.Instructions -6266.5
## - Issued.Control.Flow.Instructions -6266.5
## - Issued.Load.Store.Instructions  -6264.4
## - Issue.Slots                     -6262.7
## - L2.Write.Transactions            -6259.7
## - Global.Load.Transactions         -6257.4
## - Executed.Load.Store.Instructions -6251.0
## - Input.Size                       -6244.4
## - Bus                             -6243.1
## - Issued.IPC                      -6235.6
## - Issue.Slot.Utilization           -6233.5
## - Global.Load.Transactions.Per.Request -6226.5
## - Grid.X                          -6178.6
## - ECC.Transactions                 -6157.8
## - fb_subp0_write_sectors           -6085.2
##
## Step: AIC=-6274.37
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Input.Size +
##   Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##   Global.Load.Transactions.Per.Request + Global.Load.Transactions +
##   Device.Memory.Read.Transactions + L2.Write.Transactions +
##   Issued.Control.Flow.Instructions + Executed.Control.Flow.Instructions +
##   Issued.Load.Store.Instructions + Executed.Load.Store.Instructions +
##   Issue.Slots + L2.Read.Transactions..L1.read.requests. + L2.Write.Transactions..L1.write.requests
##   ECC.Transactions + Eligible.Warps.Per.Active.Cycle + fb_subp0_read_sectors +
##   fb_subp0_write_sectors + inst_issued2 + Grid.X
##
##                                Df Sum of Sq      RSS
## - Instructions.per.warp        1 0.00001775 0.0066911
## <none>                          0.0066734
## - L2.Read.Transactions..L1.read.requests. 1 0.00002698 0.0067003
## - Eligible.Warps.Per.Active.Cycle 1 0.00003123 0.0067046
## - L2.Write.Transactions..L1.write.requests. 1 0.00003159 0.0067049
## - Memoryclock                  1 0.00005153 0.0067249
## - fb_subp0_read_sectors        1 0.00007718 0.0067505
## - L2                           1 0.00007793 0.0067513
## - Device.Memory.Read.Transactions 1 0.00009323 0.0067666

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## - inst_issued2                1 0.00010751 0.0067809
## - Executed.Control.Flow.Instructions 1 0.00010764 0.0067810
## - Issued.Control.Flow.Instructions 1 0.00010780 0.0067812
## - Issue.Slots                 1 0.00014153 0.0068149
## - Issued.Load.Store.Instructions 1 0.00018801 0.0068614
## - L2.Write.Transactions        1 0.00019005 0.0068634
## - Global.Load.Transactions     1 0.00021640 0.0068898
## - Executed.Load.Store.Instructions 1 0.00030132 0.0069747
## - Input.Size                  1 0.00038002 0.0070534
## - Bus                         1 0.00038454 0.0070579
## - Issued.IPC                  1 0.00049031 0.0071637
## - Issue.Slot.Utilization       1 0.00051804 0.0071914
## - Global.Load.Transactions.Per.Request 1 0.00060559 0.0072790
## - Grid.X                      1 0.00127050 0.0079439
## - ECC.Transactions            1 0.00158465 0.0082580
## - fb_subp0_write_sectors      1 0.00281727 0.0094906
##                               AIC
## - Instructions.per.warp        -6274.9
## <none>                         -6274.4
## - L2.Read.Transactions..L1.read.requests. -6274.1
## - Eligible.Warps.Per.Active.Cycle -6273.8
## - L2.Write.Transactions..L1.write.requests. -6273.7
## - Memoryclock                 -6272.1
## - fb_subp0_read_sectors       -6269.9
## - L2                          -6269.9
## - Device.Memory.Read.Transactions -6268.6
## - inst_issued2                -6267.4
## - Executed.Control.Flow.Instructions -6267.4
## - Issued.Control.Flow.Instructions -6267.4
## - Issue.Slots                 -6264.7
## - Issued.Load.Store.Instructions -6260.9
## - L2.Write.Transactions        -6260.7
## - Global.Load.Transactions     -6258.6
## - Executed.Load.Store.Instructions -6251.7
## - Input.Size                  -6245.5
## - Bus                         -6245.1
## - Issued.IPC                  -6236.8
## - Issue.Slot.Utilization       -6234.6
## - Global.Load.Transactions.Per.Request -6227.9
## - Grid.X                      -6179.1
## - ECC.Transactions            -6157.5
## - fb_subp0_write_sectors      -6079.8
##
## Step: AIC=-6274.88
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Input.Size +
##   Issued.IPC + Issue.Slot.Utilization + Global.Load.Transactions.Per.Request +
##   Global.Load.Transactions + Device.Memory.Read.Transactions +
##   L2.Write.Transactions + Issued.Control.Flow.Instructions +
##   Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##   Executed.Load.Store.Instructions + Issue.Slots + L2.Read.Transactions..L1.read.requests. +
##   L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
##   Eligible.Warps.Per.Active.Cycle + fb_subp0_read_sectors +
##   fb_subp0_write_sectors + inst_issued2 + Grid.X
##

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##                                Df Sum of Sq      RSS
## <none>                                0.0066911
## - L2.Read.Transactions..L1.read.requests.    1 0.00002552 0.0067166
## - L2.Write.Transactions..L1.write.requests.    1 0.00003045 0.0067216
## - Memoryclock                                1 0.00003447 0.0067256
## - Eligible.Warps.Per.Active.Cycle             1 0.00003859 0.0067297
## - fb_subp0_read_sectors                       1 0.00007173 0.0067628
## - Device.Memory.Read.Transactions              1 0.00008714 0.0067783
## - L2                                            1 0.00009027 0.0067814
## - inst_issued2                                1 0.00009828 0.0067894
## - Executed.Control.Flow.Instructions           1 0.00009841 0.0067895
## - Issued.Control.Flow.Instructions             1 0.00009856 0.0067897
## - Issue.Slots                                 1 0.00014185 0.0068330
## - L2.Write.Transactions                       1 0.00018673 0.0068778
## - Issued.Load.Store.Instructions               1 0.00018839 0.0068795
## - Global.Load.Transactions                    1 0.00020991 0.0069010
## - Executed.Load.Store.Instructions             1 0.00030865 0.0069998
## - Input.Size                                  1 0.00036773 0.0070588
## - Issued.IPC                                  1 0.00047330 0.0071644
## - Issue.Slot.Utilization                      1 0.00050094 0.0071921
## - Global.Load.Transactions.Per.Request         1 0.00059805 0.0072892
## - Bus                                           1 0.00067891 0.0073700
## - Grid.X                                       1 0.00127389 0.0079650
## - ECC.Transactions                            1 0.00156748 0.0082586
## - fb_subp0_write_sectors                      1 0.00280094 0.0094921
##                                AIC
## <none>                                -6274.9
## - L2.Read.Transactions..L1.read.requests.    -6274.8
## - L2.Write.Transactions..L1.write.requests.  -6274.4
## - Memoryclock                                -6274.0
## - Eligible.Warps.Per.Active.Cycle            -6273.7
## - fb_subp0_read_sectors                      -6270.9
## - Device.Memory.Read.Transactions             -6269.7
## - L2                                           -6269.4
## - inst_issued2                               -6268.7
## - Executed.Control.Flow.Instructions          -6268.7
## - Issued.Control.Flow.Instructions            -6268.7
## - Issue.Slots                                 -6265.2
## - L2.Write.Transactions                       -6261.5
## - Issued.Load.Store.Instructions              -6261.4
## - Global.Load.Transactions                    -6259.6
## - Executed.Load.Store.Instructions            -6251.7
## - Input.Size                                  -6247.0
## - Issued.IPC                                  -6238.7
## - Issue.Slot.Utilization                      -6236.6
## - Global.Load.Transactions.Per.Request        -6229.1
## - Bus                                           -6223.0
## - Grid.X                                       -6179.6
## - ECC.Transactions                            -6159.4
## - fb_subp0_write_sectors                      -6081.8
## Start:  AIC=-8944.74
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +

```

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## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
## Control.Flow.Instructions + Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + warps_launched + threads_launched +
## inst_executed + inst_issued1 + inst_issued2 + gld_inst_32bit +
## gst_inst_32bit + gld_request + gst_request + Grid.X + Block.X
##
##
## Step: AIC=-8944.74
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
## Control.Flow.Instructions + Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + warps_launched + threads_launched +
## inst_executed + inst_issued1 + inst_issued2 + gld_inst_32bit +
## gst_inst_32bit + gld_request + Grid.X + Block.X
##
##
## Step: AIC=-8944.74
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
## Control.Flow.Instructions + Misc.Instructions + L2.Read.Transactions..L1.read.requests. +

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##      L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
##      Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##      fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##      fb_subp1_write_sectors + warps_launched + threads_launched +
##      inst_executed + inst_issued1 + inst_issued2 + gld_inst_32bit +
##      gst_inst_32bit + Grid.X + Block.X
##
##
## Step:  AIC=-8944.74
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##      Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##      Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
##      Global.Store.Transactions + Device.Memory.Read.Transactions +
##      Device.Memory.Write.Transactions + L2.Read.Transactions +
##      L2.Write.Transactions + Issued.Control.Flow.Instructions +
##      Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##      Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
##      Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
##      Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
##      Control.Flow.Instructions + Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
##      L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
##      Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##      fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##      fb_subp1_write_sectors + warps_launched + threads_launched +
##      inst_executed + inst_issued1 + inst_issued2 + gld_inst_32bit +
##      Grid.X + Block.X
##
##
## Step:  AIC=-8944.74
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##      Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##      Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
##      Global.Store.Transactions + Device.Memory.Read.Transactions +
##      Device.Memory.Write.Transactions + L2.Read.Transactions +
##      L2.Write.Transactions + Issued.Control.Flow.Instructions +
##      Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##      Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
##      Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
##      Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
##      Control.Flow.Instructions + Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
##      L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
##      Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##      fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##      fb_subp1_write_sectors + warps_launched + threads_launched +
##      inst_executed + inst_issued1 + inst_issued2 + Grid.X + Block.X
##
##
## Step:  AIC=-8944.74
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +

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```

## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
## Control.Flow.Instructions + Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + warps_launched + threads_launched +
## inst_issued1 + inst_issued2 + Grid.X + Block.X
##
##
## Step: AIC=-8944.74
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
## Control.Flow.Instructions + Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + warps_launched + inst_issued1 +
## inst_issued2 + Grid.X + Block.X
##
##
## Step: AIC=-8944.74
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
## Control.Flow.Instructions + Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +

```

```

## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + inst_issued1 + inst_issued2 + Grid.X +
## Block.X
##
##
## Step: AIC=-8944.74
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
## Control.Flow.Instructions + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + inst_issued1 + inst_issued2 + Grid.X +
## Block.X
##
##
## Step: AIC=-8944.74
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
## L2.Read.Transactions..L1.read.requests. + L2.Write.Transactions..L1.write.requests. +
## ECC.Transactions + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + inst_issued1 + inst_issued2 + Grid.X +
## Block.X
##
##
## Step: AIC=-8944.74
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +

```



```

## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + inst_issued1 + inst_issued2 + Grid.X +
## Block.X
##
##
## Step: AIC=-8944.74
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Issued +
## Issue.Slots + L2.Read.Transactions..L1.read.requests. + L2.Write.Transactions..L1.write.requests
## ECC.Transactions + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + inst_issued1 + inst_issued2 + Grid.X +
## Block.X
##
##
## Step: AIC=-8944.74
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Instructions.Issued + Issue.Slots + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + inst_issued1 + inst_issued2 + Grid.X +
## Block.X
##
##
## Step: AIC=-8944.74
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +

```

```

## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Instructions.Issued +
## Issue.Slots + L2.Read.Transactions..L1.read.requests. + L2.Write.Transactions..L1.write.requests
## ECC.Transactions + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + inst_issued1 + inst_issued2 + Grid.X +
## Block.X
##
##
## Step: AIC=-8944.74
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Device.Memory.Read.Transactions + Device.Memory.Write.Transactions +
## L2.Read.Transactions + L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Instructions.Issued +
## Issue.Slots + L2.Read.Transactions..L1.read.requests. + L2.Write.Transactions..L1.write.requests
## ECC.Transactions + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + inst_issued1 + inst_issued2 + Grid.X +
## Block.X
##
##
## Step: AIC=-8944.74
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Global.Load.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Instructions.Issued +
## Issue.Slots + L2.Read.Transactions..L1.read.requests. + L2.Write.Transactions..L1.write.requests
## ECC.Transactions + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + inst_issued1 + inst_issued2 + Grid.X +
## Block.X
##
##
## Step: AIC=-8944.74
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +

```

```

## Global.Load.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Instructions.Issued +
## Issue.Slots + L2.Read.Transactions..L1.read.requests. + L2.Write.Transactions..L1.write.requests
## ECC.Transactions + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + inst_issued1 + inst_issued2 + Grid.X +
## Block.X
##
##
## Step: AIC=-8944.74
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Load.Transactions +
## Device.Memory.Read.Transactions + Device.Memory.Write.Transactions +
## L2.Read.Transactions + L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Instructions.Issued +
## Issue.Slots + L2.Read.Transactions..L1.read.requests. + L2.Write.Transactions..L1.write.requests
## ECC.Transactions + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + inst_issued1 + inst_issued2 + Grid.X +
## Block.X
##
##
## Step: AIC=-8944.74
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Global.Load.Transactions.Per.Request +
## Global.Load.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Instructions.Issued +
## Issue.Slots + L2.Read.Transactions..L1.read.requests. + L2.Write.Transactions..L1.write.requests
## ECC.Transactions + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + inst_issued1 + inst_issued2 + Grid.X +
## Block.X
##
##
## Step: AIC=-8944.74
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Global.Load.Transactions.Per.Request + Global.Load.Transactions +
## Device.Memory.Read.Transactions + Device.Memory.Write.Transactions +
## L2.Read.Transactions + L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Instructions.Issued +
## Issue.Slots + L2.Read.Transactions..L1.read.requests. + L2.Write.Transactions..L1.write.requests
## ECC.Transactions + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +

```

```

##      fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##      fb_subp1_write_sectors + inst_issued1 + inst_issued2 + Grid.X +
##      Block.X
##
##
## Step:   AIC=-8944.74
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Global.Load.Transactions.Per.Request + Global.Load.Transactions +
##      Device.Memory.Read.Transactions + Device.Memory.Write.Transactions +
##      L2.Read.Transactions + L2.Write.Transactions + Issued.Control.Flow.Instructions +
##      Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##      Executed.Load.Store.Instructions + Instructions.Issued +
##      Issue.Slots + L2.Read.Transactions..L1.read.requests. + L2.Write.Transactions..L1.write.requests
##      ECC.Transactions + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##      fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##      fb_subp1_write_sectors + inst_issued1 + inst_issued2 + Grid.X +
##      Block.X
##
##
##              Df  Sum of Sq      RSS
## - Eligible.Warps.Per.Active.Cycle      1  2.1000e-09  5.4143e-05
## - Device.Memory.Read.Transactions      1  3.1000e-09  5.4144e-05
## - fb_subp0_write_sectors      1  1.1100e-08  5.4152e-05
## - inst_issued2      1  2.9600e-08  5.4170e-05
## - fb_subp1_write_sectors      1  4.5000e-08  5.4185e-05
## - FLOP.Efficiency.Peak.Single.      1  5.4800e-08  5.4195e-05
## - Input.Size      1  6.3000e-08  5.4204e-05
## - ECC.Transactions      1  8.0000e-08  5.4220e-05
## - inst_issued1      1  9.7800e-08  5.4238e-05
## - Instructions.per.warp      1  1.1170e-07  5.4252e-05
## - Device.Memory.Write.Transactions      1  1.2820e-07  5.4269e-05
## - Instructions.Issued      1  1.2830e-07  5.4269e-05
## - Issue.Slots      1  1.2850e-07  5.4269e-05
## - L2      1  1.6710e-07  5.4308e-05
## <none>      5.4140e-05
## - fb_subp1_read_sectors      1  2.5970e-07  5.4400e-05
## - fb_subp0_read_sectors      1  2.9860e-07  5.4439e-05
## - Grid.X      1  3.2970e-07  5.4470e-05
## - Issued.Control.Flow.Instructions      1  3.7760e-07  5.4518e-05
## - Executed.Control.Flow.Instructions      1  3.8100e-07  5.4521e-05
## - Global.Load.Transactions      1  4.0230e-07  5.4543e-05
## - Memoryclock      1  5.7320e-07  5.4714e-05
## - Global.Load.Transactions.Per.Request      1  8.0500e-07  5.4945e-05
## - Issued.IPC      1  8.8700e-07  5.5027e-05
## - Block.X      1  9.2540e-07  5.5066e-05
## - Issue.Slot.Utilization      1  1.0215e-06  5.5162e-05
## - L2.Write.Transactions..L1.write.requests.      1  1.1715e-06  5.5312e-05
## - Bus      1  1.4604e-06  5.5601e-05
## - L2.Read.Transactions      1  1.5169e-06  5.5657e-05
## - Issued.Load.Store.Instructions      1  1.6868e-06  5.5827e-05
## - L2.Write.Transactions      1  1.8801e-06  5.6021e-05
## - Executed.Load.Store.Instructions      1  2.4222e-06  5.6563e-05
## - L2.Read.Transactions..L1.read.requests.      1  5.0649e-06  5.9205e-05
##
##              AIC

```

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## - Eligible.Warps.Per.Active.Cycle -8946.7
## - Device.Memory.Read.Transactions -8946.7
## - fb_subp0_write_sectors -8946.6
## - inst_issued2 -8946.4
## - fb_subp1_write_sectors -8946.3
## - FLOP.Efficiency.Peak.Single. -8946.2
## - Input.Size -8946.1
## - ECC.Transactions -8945.9
## - inst_issued1 -8945.7
## - Instructions.per.warp -8945.6
## - Device.Memory.Write.Transactions -8945.4
## - Instructions.Issued -8945.4
## - Issue.Slots -8945.4
## - L2 -8945.0
## <none> -8944.7
## - fb_subp1_read_sectors -8944.1
## - fb_subp0_read_sectors -8943.7
## - Grid.X -8943.4
## - Issued.Control.Flow.Instructions -8942.9
## - Executed.Control.Flow.Instructions -8942.8
## - Global.Load.Transactions -8942.6
## - Memoryclock -8940.9
## - Global.Load.Transactions.Per.Request -8938.5
## - Issued.IPC -8937.7
## - Block.X -8937.3
## - Issue.Slot.Utilization -8936.3
## - L2.Write.Transactions..L1.write.requests. -8934.8
## - Bus -8931.9
## - L2.Read.Transactions -8931.3
## - Issued.Load.Store.Instructions -8929.6
## - L2.Write.Transactions -8927.7
## - Executed.Load.Store.Instructions -8922.3
## - L2.Read.Transactions..L1.read.requests. -8896.8
##
## Step: AIC=-8946.72
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Global.Load.Transactions.Per.Request + Global.Load.Transactions +
## Device.Memory.Read.Transactions + Device.Memory.Write.Transactions +
## L2.Read.Transactions + L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Instructions.Issued +
## Issue.Slots + L2.Read.Transactions..L1.read.requests. + L2.Write.Transactions..L1.write.requests
## ECC.Transactions + FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors +
## fb_subp1_read_sectors + fb_subp0_write_sectors + fb_subp1_write_sectors +
## inst_issued1 + inst_issued2 + Grid.X + Block.X
##
##
## Df Sum of Sq RSS
## - Device.Memory.Read.Transactions 1 3.0000e-09 5.4146e-05
## - fb_subp0_write_sectors 1 1.1200e-08 5.4154e-05
## - inst_issued2 1 2.8700e-08 5.4171e-05
## - fb_subp1_write_sectors 1 4.4600e-08 5.4187e-05
## - FLOP.Efficiency.Peak.Single. 1 5.3200e-08 5.4196e-05
## - Input.Size 1 6.3900e-08 5.4206e-05

```

## - ECC.Transactions	1	7.8900e-08	5.4222e-05
## - inst_issued1	1	9.7000e-08	5.4240e-05
## - Instructions.per.warp	1	1.1210e-07	5.4255e-05
## - Device.Memory.Write.Transactions	1	1.2800e-07	5.4271e-05
## - Instructions.Issued	1	1.2820e-07	5.4271e-05
## - Issue.Slots	1	1.2840e-07	5.4271e-05
## - L2	1	1.7230e-07	5.4315e-05
## <none>			5.4143e-05
## - fb_subp1_read_sectors	1	2.6040e-07	5.4403e-05
## - fb_subp0_read_sectors	1	2.9980e-07	5.4442e-05
## - Grid.X	1	3.2790e-07	5.4471e-05
## - Global.Load.Transactions	1	4.0030e-07	5.4543e-05
## - Issued.Control.Flow.Instructions	1	4.0840e-07	5.4551e-05
## - Executed.Control.Flow.Instructions	1	4.1200e-07	5.4555e-05
## - Memoryclock	1	5.7120e-07	5.4714e-05
## - Global.Load.Transactions.Per.Request	1	8.0440e-07	5.4947e-05
## - Issued.IPC	1	1.0904e-06	5.5233e-05
## - L2.Write.Transactions..L1.write.requests.	1	1.1728e-06	5.5315e-05
## - Block.X	1	1.1955e-06	5.5338e-05
## - Issue.Slot.Utilization	1	1.2131e-06	5.5356e-05
## - L2.Read.Transactions	1	1.5198e-06	5.5662e-05
## - Bus	1	1.6277e-06	5.5770e-05
## - Issued.Load.Store.Instructions	1	1.7529e-06	5.5896e-05
## - L2.Write.Transactions	1	1.8792e-06	5.6022e-05
## - Executed.Load.Store.Instructions	1	2.4550e-06	5.6598e-05
## - L2.Read.Transactions..L1.read.requests.	1	5.0643e-06	5.9207e-05
##		AIC	
## - Device.Memory.Read.Transactions		-8948.7	
## - fb_subp0_write_sectors		-8948.6	
## - inst_issued2		-8948.4	
## - fb_subp1_write_sectors		-8948.3	
## - FLOP.Efficiency.Peak.Single.		-8948.2	
## - Input.Size		-8948.1	
## - ECC.Transactions		-8947.9	
## - inst_issued1		-8947.7	
## - Instructions.per.warp		-8947.6	
## - Device.Memory.Write.Transactions		-8947.4	
## - Instructions.Issued		-8947.4	
## - Issue.Slots		-8947.4	
## - L2		-8946.9	
## <none>		-8946.7	
## - fb_subp1_read_sectors		-8946.0	
## - fb_subp0_read_sectors		-8945.6	
## - Grid.X		-8945.4	
## - Global.Load.Transactions		-8944.6	
## - Issued.Control.Flow.Instructions		-8944.5	
## - Executed.Control.Flow.Instructions		-8944.5	
## - Memoryclock		-8942.9	
## - Global.Load.Transactions.Per.Request		-8940.5	
## - Issued.IPC		-8937.6	
## - L2.Write.Transactions..L1.write.requests.		-8936.8	
## - Block.X		-8936.5	
## - Issue.Slot.Utilization		-8936.4	
## - L2.Read.Transactions		-8933.3	

```

## - Bus -8932.2
## - Issued.Load.Store.Instructions -8930.9
## - L2.Write.Transactions -8929.7
## - Executed.Load.Store.Instructions -8924.0
## - L2.Read.Transactions..L1.read.requests. -8898.8
##
## Step: AIC=-8948.69
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Global.Load.Transactions.Per.Request + Global.Load.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Instructions.Issued +
## Issue.Slots + L2.Read.Transactions..L1.read.requests. + L2.Write.Transactions..L1.write.requests
## ECC.Transactions + FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors +
## fb_subp1_read_sectors + fb_subp0_write_sectors + fb_subp1_write_sectors +
## inst_issued1 + inst_issued2 + Grid.X + Block.X
##
## Df Sum of Sq RSS
## - fb_subp0_write_sectors 1 1.6200e-08 5.4162e-05
## - inst_issued2 1 2.7500e-08 5.4173e-05
## - fb_subp1_write_sectors 1 5.0800e-08 5.4196e-05
## - FLOP.Efficiency.Peak.Single. 1 5.3400e-08 5.4199e-05
## - Input.Size 1 6.4000e-08 5.4210e-05
## - ECC.Transactions 1 7.5900e-08 5.4222e-05
## - inst_issued1 1 9.6500e-08 5.4242e-05
## - Instructions.per.warp 1 1.1140e-07 5.4257e-05
## - Instructions.Issued 1 1.2570e-07 5.4271e-05
## - Issue.Slots 1 1.2580e-07 5.4271e-05
## - L2 1 1.7210e-07 5.4318e-05
## <none> 5.4146e-05
## - Device.Memory.Write.Transactions 1 1.9780e-07 5.4343e-05
## - fb_subp1_read_sectors 1 3.2060e-07 5.4466e-05
## - Grid.X 1 3.2660e-07 5.4472e-05
## - Issued.Control.Flow.Instructions 1 4.0600e-07 5.4552e-05
## - Global.Load.Transactions 1 4.0620e-07 5.4552e-05
## - Executed.Control.Flow.Instructions 1 4.0950e-07 5.4555e-05
## - fb_subp0_read_sectors 1 5.1190e-07 5.4658e-05
## - Memoryclock 1 5.7290e-07 5.4719e-05
## - Global.Load.Transactions.Per.Request 1 8.0160e-07 5.4947e-05
## - Issued.IPC 1 1.0874e-06 5.5233e-05
## - L2.Write.Transactions..L1.write.requests. 1 1.1756e-06 5.5321e-05
## - Block.X 1 1.1926e-06 5.5338e-05
## - Issue.Slot.Utilization 1 1.2101e-06 5.5356e-05
## - L2.Read.Transactions 1 1.5455e-06 5.5691e-05
## - Bus 1 1.6302e-06 5.5776e-05
## - Issued.Load.Store.Instructions 1 1.7537e-06 5.5899e-05
## - L2.Write.Transactions 1 1.8971e-06 5.6043e-05
## - Executed.Load.Store.Instructions 1 2.4526e-06 5.6598e-05
## - L2.Read.Transactions..L1.read.requests. 1 5.0612e-06 5.9207e-05
## AIC
## - fb_subp0_write_sectors -8950.5
## - inst_issued2 -8950.4

```

```

## - fb_subp1_write_sectors -8950.2
## - FLOP.Efficiency.Peak.Single. -8950.1
## - Input.Size -8950.0
## - ECC.Transactions -8949.9
## - inst_issued1 -8949.7
## - Instructions.per.warp -8949.5
## - Instructions.Issued -8949.4
## - Issue.Slots -8949.4
## - L2 -8948.9
## <none> -8948.7
## - Device.Memory.Write.Transactions -8948.7
## - fb_subp1_read_sectors -8947.4
## - Grid.X -8947.3
## - Issued.Control.Flow.Instructions -8946.5
## - Global.Load.Transactions -8946.5
## - Executed.Control.Flow.Instructions -8946.5
## - fb_subp0_read_sectors -8945.4
## - Memoryclock -8944.8
## - Global.Load.Transactions.Per.Request -8942.5
## - Issued.IPC -8939.6
## - L2.Write.Transactions..L1.write.requests. -8938.7
## - Block.X -8938.5
## - Issue.Slot.Utilization -8938.4
## - L2.Read.Transactions -8935.0
## - Bus -8934.1
## - Issued.Load.Store.Instructions -8932.9
## - L2.Write.Transactions -8931.5
## - Executed.Load.Store.Instructions -8926.0
## - L2.Read.Transactions..L1.read.requests. -8900.8
##
## Step: AIC=-8950.52
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Global.Load.Transactions.Per.Request + Global.Load.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Instructions.Issued +
## Issue.Slots + L2.Read.Transactions..L1.read.requests. + L2.Write.Transactions..L1.write.requests
## ECC.Transactions + FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors +
## fb_subp1_read_sectors + fb_subp1_write_sectors + inst_issued1 +
## inst_issued2 + Grid.X + Block.X
##
##
## Df Sum of Sq RSS
## - inst_issued2 1 2.8200e-08 5.4190e-05
## - FLOP.Efficiency.Peak.Single. 1 5.2700e-08 5.4214e-05
## - Input.Size 1 6.9400e-08 5.4231e-05
## - ECC.Transactions 1 7.2100e-08 5.4234e-05
## - inst_issued1 1 9.5800e-08 5.4258e-05
## - Instructions.per.warp 1 1.1010e-07 5.4272e-05
## - Instructions.Issued 1 1.2560e-07 5.4287e-05
## - Issue.Slots 1 1.2570e-07 5.4288e-05
## - L2 1 1.6810e-07 5.4330e-05
## - fb_subp1_write_sectors 1 1.7410e-07 5.4336e-05

```



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## - Device.Memory.Write.Transactions      1 1.8170e-07 5.4343e-05
## <none>                                   5.4162e-05
## - fb_subp1_read_sectors                 1 3.0850e-07 5.4470e-05
## - Grid.X                               1 3.3510e-07 5.4497e-05
## - Issued.Control.Flow.Instructions      1 3.9790e-07 5.4560e-05
## - Global.Load.Transactions              1 3.9920e-07 5.4561e-05
## - Executed.Control.Flow.Instructions    1 4.0140e-07 5.4563e-05
## - fb_subp0_read_sectors                 1 5.1640e-07 5.4678e-05
## - Memoryclock                           1 5.7070e-07 5.4732e-05
## - Global.Load.Transactions.Per.Request  1 7.9380e-07 5.4956e-05
## - Issued.IPC                            1 1.0826e-06 5.5244e-05
## - L2.Write.Transactions..L1.write.requests. 1 1.1721e-06 5.5334e-05
## - Block.X                               1 1.1827e-06 5.5345e-05
## - Issue.Slot.Utilization                 1 1.2049e-06 5.5367e-05
## - L2.Read.Transactions                  1 1.5364e-06 5.5698e-05
## - Bus                                   1 1.6280e-06 5.5790e-05
## - Issued.Load.Store.Instructions        1 1.7602e-06 5.5922e-05
## - L2.Write.Transactions                 1 1.9056e-06 5.6067e-05
## - Executed.Load.Store.Instructions      1 2.4514e-06 5.6613e-05
## - L2.Read.Transactions..L1.read.requests. 1 5.0596e-06 5.9221e-05
##                                           AIC
## - inst_issued2                          -8952.2
## - FLOP.Efficiency.Peak.Single.          -8952.0
## - Input.Size                            -8951.8
## - ECC.Transactions                      -8951.8
## - inst_issued1                          -8951.5
## - Instructions.per.warp                  -8951.4
## - Instructions.Issued                    -8951.2
## - Issue.Slots                           -8951.2
## - L2                                    -8950.8
## - fb_subp1_write_sectors                 -8950.7
## - Device.Memory.Write.Transactions      -8950.7
## <none>                                   -8950.5
## - fb_subp1_read_sectors                 -8949.4
## - Grid.X                               -8949.1
## - Issued.Control.Flow.Instructions      -8948.4
## - Global.Load.Transactions              -8948.4
## - Executed.Control.Flow.Instructions    -8948.4
## - fb_subp0_read_sectors                 -8947.2
## - Memoryclock                           -8946.7
## - Global.Load.Transactions.Per.Request  -8944.4
## - Issued.IPC                            -8941.5
## - L2.Write.Transactions..L1.write.requests. -8940.6
## - Block.X                               -8940.5
## - Issue.Slot.Utilization                 -8940.2
## - L2.Read.Transactions                  -8936.9
## - Bus                                   -8936.0
## - Issued.Load.Store.Instructions        -8934.7
## - L2.Write.Transactions                 -8933.2
## - Executed.Load.Store.Instructions      -8927.8
## - L2.Read.Transactions..L1.read.requests. -8902.7
##
## Step: AIC=-8952.23
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Input.Size +

```

```

##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Global.Load.Transactions.Per.Request + Global.Load.Transactions +
##      Device.Memory.Write.Transactions + L2.Read.Transactions +
##      L2.Write.Transactions + Issued.Control.Flow.Instructions +
##      Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##      Executed.Load.Store.Instructions + Instructions.Issued +
##      Issue.Slots + L2.Read.Transactions..L1.read.requests. + L2.Write.Transactions..L1.write.requests
##      ECC.Transactions + FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors +
##      fb_subp1_read_sectors + fb_subp1_write_sectors + inst_issued1 +
##      Grid.X + Block.X
##
##
##      Df  Sum of Sq      RSS
## - Input.Size          1 6.1000e-08 5.4251e-05
## - FLOP.Efficiency.Peak.Single.      1 6.1900e-08 5.4252e-05
## - ECC.Transactions          1 7.1700e-08 5.4262e-05
## - inst_issued1          1 9.2600e-08 5.4283e-05
## - Instructions.per.warp      1 1.1330e-07 5.4303e-05
## - fb_subp1_write_sectors      1 1.6590e-07 5.4356e-05
## - Device.Memory.Write.Transactions      1 1.7330e-07 5.4363e-05
## - L2          1 1.7640e-07 5.4366e-05
## <none>          5.4190e-05
## - Grid.X          1 3.1330e-07 5.4503e-05
## - fb_subp1_read_sectors      1 3.1530e-07 5.4505e-05
## - Global.Load.Transactions      1 4.2250e-07 5.4612e-05
## - Issued.Control.Flow.Instructions      1 4.7010e-07 5.4660e-05
## - Executed.Control.Flow.Instructions      1 4.7400e-07 5.4664e-05
## - Instructions.Issued          1 4.7550e-07 5.4665e-05
## - Issue.Slots          1 4.7640e-07 5.4666e-05
## - fb_subp0_read_sectors      1 5.2540e-07 5.4715e-05
## - Memoryclock          1 5.6880e-07 5.4759e-05
## - Global.Load.Transactions.Per.Request      1 8.4870e-07 5.5039e-05
## - Issued.IPC          1 1.1461e-06 5.5336e-05
## - L2.Write.Transactions..L1.write.requests.      1 1.1808e-06 5.5371e-05
## - Block.X          1 1.2668e-06 5.5457e-05
## - Issue.Slot.Utilization      1 1.2722e-06 5.5462e-05
## - L2.Read.Transactions      1 1.5451e-06 5.5735e-05
## - Bus          1 1.6092e-06 5.5799e-05
## - Issued.Load.Store.Instructions      1 1.7736e-06 5.5964e-05
## - L2.Write.Transactions      1 1.9023e-06 5.6092e-05
## - Executed.Load.Store.Instructions      1 2.5331e-06 5.6723e-05
## - L2.Read.Transactions..L1.read.requests.      1 5.0523e-06 5.9242e-05
##      AIC
## - Input.Size          -8953.6
## - FLOP.Efficiency.Peak.Single.      -8953.6
## - ECC.Transactions          -8953.5
## - inst_issued1          -8953.3
## - Instructions.per.warp      -8953.1
## - fb_subp1_write_sectors      -8952.5
## - Device.Memory.Write.Transactions      -8952.5
## - L2          -8952.4
## <none>          -8952.2
## - Grid.X          -8951.0
## - fb_subp1_read_sectors      -8951.0
## - Global.Load.Transactions      -8949.9

```

```

## - Issued.Control.Flow.Instructions -8949.4
## - Executed.Control.Flow.Instructions -8949.4
## - Instructions.Issued -8949.4
## - Issue.Slots -8949.4
## - fb_subp0_read_sectors -8948.9
## - Memoryclock -8948.4
## - Global.Load.Transactions.Per.Request -8945.6
## - Issued.IPC -8942.6
## - L2.Write.Transactions..L1.write.requests. -8942.2
## - Block.X -8941.3
## - Issue.Slot.Utilization -8941.3
## - L2.Read.Transactions -8938.5
## - Bus -8937.9
## - Issued.Load.Store.Instructions -8936.3
## - L2.Write.Transactions -8935.0
## - Executed.Load.Store.Instructions -8928.7
## - L2.Read.Transactions..L1.read.requests. -8904.5
##
## Step: AIC=-8953.61
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Issued.IPC +
## Instructions.per.warp + Issue.Slot.Utilization + Global.Load.Transactions.Per.Request +
## Global.Load.Transactions + Device.Memory.Write.Transactions +
## L2.Read.Transactions + L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Instructions.Issued +
## Issue.Slots + L2.Read.Transactions..L1.read.requests. + L2.Write.Transactions..L1.write.requests
## ECC.Transactions + FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors +
## fb_subp1_read_sectors + fb_subp1_write_sectors + inst_issued1 +
## Grid.X + Block.X
##
##
## Df Sum of Sq RSS
## - FLOP.Efficiency.Peak.Single. 1 6.9600e-08 5.4321e-05
## - ECC.Transactions 1 7.4700e-08 5.4326e-05
## - inst_issued1 1 8.9900e-08 5.4341e-05
## - Instructions.per.warp 1 1.5130e-07 5.4402e-05
## - fb_subp1_write_sectors 1 1.5200e-07 5.4403e-05
## - Device.Memory.Write.Transactions 1 1.5940e-07 5.4410e-05
## - L2 1 1.7210e-07 5.4423e-05
## <none> 5.4251e-05
## - fb_subp1_read_sectors 1 3.0240e-07 5.4553e-05
## - Issued.Control.Flow.Instructions 1 4.9740e-07 5.4748e-05
## - Grid.X 1 4.9890e-07 5.4750e-05
## - Executed.Control.Flow.Instructions 1 5.0160e-07 5.4753e-05
## - Instructions.Issued 1 5.0310e-07 5.4754e-05
## - Issue.Slots 1 5.0400e-07 5.4755e-05
## - fb_subp0_read_sectors 1 5.1110e-07 5.4762e-05
## - Memoryclock 1 5.4560e-07 5.4797e-05
## - Global.Load.Transactions.Per.Request 1 7.9800e-07 5.5049e-05
## - L2.Write.Transactions..L1.write.requests. 1 1.1768e-06 5.5428e-05
## - Global.Load.Transactions 1 1.2245e-06 5.5475e-05
## - Block.X 1 1.3304e-06 5.5581e-05
## - Issued.IPC 1 1.4450e-06 5.5696e-05
## - L2.Read.Transactions 1 1.5041e-06 5.5755e-05
## - Issue.Slot.Utilization 1 1.5886e-06 5.5840e-05

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```

## - Bus 1 1.5968e-06 5.5848e-05
## - Issued.Load.Store.Instructions 1 1.7896e-06 5.6041e-05
## - L2.Write.Transactions 1 1.8700e-06 5.6121e-05
## - Executed.Load.Store.Instructions 1 2.4930e-06 5.6744e-05
## - L2.Read.Transactions..L1.read.requests. 1 5.0224e-06 5.9273e-05
## AIC
## - FLOP.Efficiency.Peak.Single. -8954.9
## - ECC.Transactions -8954.8
## - inst_issued1 -8954.7
## - Instructions.per.warp -8954.1
## - fb_subp1_write_sectors -8954.0
## - Device.Memory.Write.Transactions -8954.0
## - L2 -8953.8
## <none> -8953.6
## - fb_subp1_read_sectors -8952.5
## - Issued.Control.Flow.Instructions -8950.5
## - Grid.X -8950.5
## - Executed.Control.Flow.Instructions -8950.5
## - Instructions.Issued -8950.5
## - Issue.Slots -8950.4
## - fb_subp0_read_sectors -8950.4
## - Memoryclock -8950.0
## - Global.Load.Transactions.Per.Request -8947.5
## - L2.Write.Transactions..L1.write.requests. -8943.6
## - Global.Load.Transactions -8943.2
## - Block.X -8942.1
## - Issued.IPC -8940.9
## - L2.Read.Transactions -8940.3
## - Issue.Slot.Utilization -8939.5
## - Bus -8939.4
## - Issued.Load.Store.Instructions -8937.5
## - L2.Write.Transactions -8936.7
## - Executed.Load.Store.Instructions -8930.5
## - L2.Read.Transactions..L1.read.requests. -8906.2
##
## Step: AIC=-8954.89
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Issued.IPC +
## Instructions.per.warp + Issue.Slot.Utilization + Global.Load.Transactions.Per.Request +
## Global.Load.Transactions + Device.Memory.Write.Transactions +
## L2.Read.Transactions + L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Instructions.Issued +
## Issue.Slots + L2.Read.Transactions..L1.read.requests. + L2.Write.Transactions..L1.write.requests
## ECC.Transactions + fb_subp0_read_sectors + fb_subp1_read_sectors +
## fb_subp1_write_sectors + inst_issued1 + Grid.X + Block.X
##
## Df Sum of Sq RSS
## - ECC.Transactions 1 6.7100e-08 5.4388e-05
## - inst_issued1 1 8.4200e-08 5.4405e-05
## - Instructions.per.warp 1 9.0800e-08 5.4411e-05
## - L2 1 1.1480e-07 5.4435e-05
## - fb_subp1_write_sectors 1 1.3600e-07 5.4457e-05
## - Device.Memory.Write.Transactions 1 1.4290e-07 5.4464e-05
## <none> 5.4321e-05

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## - fb_subp1_read_sectors          1 3.0760e-07 5.4628e-05
## - Issued.Control.Flow.Instructions 1 4.2810e-07 5.4749e-05
## - Executed.Control.Flow.Instructions 1 4.3230e-07 5.4753e-05
## - Instructions.Issued             1 4.3380e-07 5.4754e-05
## - Issue.Slots                    1 4.3470e-07 5.4755e-05
## - Memoryclock                    1 4.7800e-07 5.4799e-05
## - Grid.X                         1 5.0800e-07 5.4829e-05
## - fb_subp0_read_sectors          1 5.0920e-07 5.4830e-05
## - Global.Load.Transactions.Per.Request 1 7.4130e-07 5.5062e-05
## - L2.Write.Transactions..L1.write.requests. 1 1.1762e-06 5.5497e-05
## - Global.Load.Transactions        1 1.1822e-06 5.5503e-05
## - Block.X                        1 1.2617e-06 5.5582e-05
## - L2.Read.Transactions            1 1.5305e-06 5.5851e-05
## - Bus                            1 1.5639e-06 5.5885e-05
## - Issued.IPC                     1 1.5704e-06 5.5891e-05
## - Issue.Slot.Utilization          1 1.7368e-06 5.6057e-05
## - Issued.Load.Store.Instructions 1 1.8212e-06 5.6142e-05
## - L2.Write.Transactions           1 1.8462e-06 5.6167e-05
## - Executed.Load.Store.Instructions 1 2.4546e-06 5.6775e-05
## - L2.Read.Transactions..L1.read.requests. 1 5.0829e-06 5.9403e-05
##                                AIC
## - ECC.Transactions               -8956.2
## - inst_issued1                   -8956.0
## - Instructions.per.warp           -8956.0
## - L2                             -8955.7
## - fb_subp1_write_sectors         -8955.5
## - Device.Memory.Write.Transactions -8955.4
## <none>                           -8954.9
## - fb_subp1_read_sectors          -8953.7
## - Issued.Control.Flow.Instructions -8952.5
## - Executed.Control.Flow.Instructions -8952.5
## - Instructions.Issued             -8952.5
## - Issue.Slots                    -8952.4
## - Memoryclock                    -8952.0
## - Grid.X                         -8951.7
## - fb_subp0_read_sectors          -8951.7
## - Global.Load.Transactions.Per.Request -8949.3
## - L2.Write.Transactions..L1.write.requests. -8944.9
## - Global.Load.Transactions        -8944.9
## - Block.X                        -8944.1
## - L2.Read.Transactions            -8941.4
## - Bus                            -8941.1
## - Issued.IPC                     -8941.0
## - Issue.Slot.Utilization          -8939.3
## - Issued.Load.Store.Instructions -8938.5
## - L2.Write.Transactions           -8938.2
## - Executed.Load.Store.Instructions -8932.2
## - L2.Read.Transactions..L1.read.requests. -8907.0
##
## Step: AIC=-8956.2
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Issued.IPC +
##   Instructions.per.warp + Issue.Slot.Utilization + Global.Load.Transactions.Per.Request +
##   Global.Load.Transactions + Device.Memory.Write.Transactions +
##   L2.Read.Transactions + L2.Write.Transactions + Issued.Control.Flow.Instructions +

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##      Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##      Executed.Load.Store.Instructions + Instructions.Issued +
##      Issue.Slots + L2.Read.Transactions..L1.read.requests. + L2.Write.Transactions..L1.write.requests
##      fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp1_write_sectors +
##      inst_issued1 + Grid.X + Block.X
##
##
##      Df  Sum of Sq      RSS
## - inst_issued1      1 8.4700e-08 5.4472e-05
## - Instructions.per.warp      1 9.4800e-08 5.4482e-05
## - fb_subp1_write_sectors      1 1.1350e-07 5.4501e-05
## - Device.Memory.Write.Transactions      1 1.1460e-07 5.4502e-05
## - L2      1 1.4090e-07 5.4529e-05
## <none>      5.4388e-05
## - Issued.Control.Flow.Instructions      1 4.2910e-07 5.4817e-05
## - Executed.Control.Flow.Instructions      1 4.2980e-07 5.4818e-05
## - Instructions.Issued      1 4.3130e-07 5.4819e-05
## - Issue.Slots      1 4.3230e-07 5.4820e-05
## - fb_subp1_read_sectors      1 4.6010e-07 5.4848e-05
## - Memoryclock      1 4.8250e-07 5.4870e-05
## - fb_subp0_read_sectors      1 4.9050e-07 5.4878e-05
## - Grid.X      1 5.0490e-07 5.4893e-05
## - Global.Load.Transactions.Per.Request      1 7.4460e-07 5.5132e-05
## - L2.Write.Transactions..L1.write.requests.      1 1.1739e-06 5.5562e-05
## - Global.Load.Transactions      1 1.1852e-06 5.5573e-05
## - Block.X      1 1.2570e-06 5.5645e-05
## - Issued.IPC      1 1.5254e-06 5.5913e-05
## - L2.Read.Transactions      1 1.5451e-06 5.5933e-05
## - Bus      1 1.6845e-06 5.6072e-05
## - Issue.Slot.Utilization      1 1.6904e-06 5.6078e-05
## - Issued.Load.Store.Instructions      1 1.8353e-06 5.6223e-05
## - L2.Write.Transactions      1 1.8435e-06 5.6231e-05
## - Executed.Load.Store.Instructions      1 2.4750e-06 5.6863e-05
## - L2.Read.Transactions..L1.read.requests.      1 5.0900e-06 5.9478e-05
##      AIC
## - inst_issued1      -8957.3
## - Instructions.per.warp      -8957.2
## - fb_subp1_write_sectors      -8957.0
## - Device.Memory.Write.Transactions      -8957.0
## - L2      -8956.8
## <none>      -8956.2
## - Issued.Control.Flow.Instructions      -8953.8
## - Executed.Control.Flow.Instructions      -8953.8
## - Instructions.Issued      -8953.8
## - Issue.Slots      -8953.8
## - fb_subp1_read_sectors      -8953.5
## - Memoryclock      -8953.3
## - fb_subp0_read_sectors      -8953.2
## - Grid.X      -8953.0
## - Global.Load.Transactions.Per.Request      -8950.6
## - L2.Write.Transactions..L1.write.requests.      -8946.3
## - Global.Load.Transactions      -8946.2
## - Block.X      -8945.5
## - Issued.IPC      -8942.8
## - L2.Read.Transactions      -8942.6

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## - Bus -8941.2
## - Issue.Slot.Utilization -8941.1
## - Issued.Load.Store.Instructions -8939.7
## - L2.Write.Transactions -8939.6
## - Executed.Load.Store.Instructions -8933.4
## - L2.Read.Transactions..L1.read.requests. -8908.3
##
## Step: AIC=-8957.33
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Issued.IPC +
## Instructions.per.warp + Issue.Slot.Utilization + Global.Load.Transactions.Per.Request +
## Global.Load.Transactions + Device.Memory.Write.Transactions +
## L2.Read.Transactions + L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Instructions.Issued +
## Issue.Slots + L2.Read.Transactions..L1.read.requests. + L2.Write.Transactions..L1.write.requests
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp1_write_sectors +
## Grid.X + Block.X
##
## Df Sum of Sq RSS
## - Instructions.per.warp 1 1.0150e-07 5.4574e-05
## - fb_subp1_write_sectors 1 1.0540e-07 5.4578e-05
## - Device.Memory.Write.Transactions 1 1.0650e-07 5.4579e-05
## - L2 1 1.4610e-07 5.4619e-05
## <none> 5.4472e-05
## - fb_subp1_read_sectors 1 4.7230e-07 5.4945e-05
## - Issued.Control.Flow.Instructions 1 4.7540e-07 5.4948e-05
## - Executed.Control.Flow.Instructions 1 4.7640e-07 5.4949e-05
## - Instructions.Issued 1 4.7800e-07 5.4950e-05
## - Issue.Slots 1 4.7890e-07 5.4951e-05
## - Memoryclock 1 4.8180e-07 5.4954e-05
## - fb_subp0_read_sectors 1 5.0200e-07 5.4974e-05
## - Grid.X 1 5.3470e-07 5.5007e-05
## - Global.Load.Transactions.Per.Request 1 8.3480e-07 5.5307e-05
## - Global.Load.Transactions 1 1.1580e-06 5.5630e-05
## - L2.Write.Transactions..L1.write.requests. 1 1.1953e-06 5.5668e-05
## - Block.X 1 1.3796e-06 5.5852e-05
## - L2.Read.Transactions 1 1.5535e-06 5.6026e-05
## - Issued.IPC 1 1.5652e-06 5.6038e-05
## - Bus 1 1.6437e-06 5.6116e-05
## - Issue.Slot.Utilization 1 1.7382e-06 5.6211e-05
## - L2.Write.Transactions 1 1.9143e-06 5.6387e-05
## - Issued.Load.Store.Instructions 1 2.0339e-06 5.6506e-05
## - Executed.Load.Store.Instructions 1 2.4789e-06 5.6951e-05
## - L2.Read.Transactions..L1.read.requests. 1 5.1472e-06 5.9620e-05
## AIC
## - Instructions.per.warp -8958.3
## - fb_subp1_write_sectors -8958.3
## - Device.Memory.Write.Transactions -8958.2
## - L2 -8957.8
## <none> -8957.3
## - fb_subp1_read_sectors -8954.5
## - Issued.Control.Flow.Instructions -8954.5
## - Executed.Control.Flow.Instructions -8954.5
## - Instructions.Issued -8954.5

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## - Issue.Slots -8954.4
## - Memoryclock -8954.4
## - fb_subp0_read_sectors -8954.2
## - Grid.X -8953.9
## - Global.Load.Transactions.Per.Request -8950.8
## - Global.Load.Transactions -8947.6
## - L2.Write.Transactions..L1.write.requests. -8947.2
## - Block.X -8945.4
## - L2.Read.Transactions -8943.6
## - Issued.IPC -8943.5
## - Bus -8942.7
## - Issue.Slot.Utilization -8941.8
## - L2.Write.Transactions -8940.1
## - Issued.Load.Store.Instructions -8938.9
## - Executed.Load.Store.Instructions -8934.5
## - L2.Read.Transactions..L1.read.requests. -8909.0
##
## Step: AIC=-8958.29
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Issued.IPC +
## Issue.Slot.Utilization + Global.Load.Transactions.Per.Request +
## Global.Load.Transactions + Device.Memory.Write.Transactions +
## L2.Read.Transactions + L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Instructions.Issued +
## Issue.Slots + L2.Read.Transactions..L1.read.requests. + L2.Write.Transactions..L1.write.requests
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp1_write_sectors +
## Grid.X + Block.X
##
##
## Df Sum of Sq RSS
## - L2 1 5.6100e-08 5.4630e-05
## - fb_subp1_write_sectors 1 1.0270e-07 5.4677e-05
## - Device.Memory.Write.Transactions 1 1.0380e-07 5.4678e-05
## <none> 5.4574e-05
## - Memoryclock 1 3.8300e-07 5.4957e-05
## - fb_subp1_read_sectors 1 4.5760e-07 5.5032e-05
## - Grid.X 1 4.5900e-07 5.5033e-05
## - fb_subp0_read_sectors 1 4.8680e-07 5.5061e-05
## - Issued.Control.Flow.Instructions 1 5.7490e-07 5.5149e-05
## - Executed.Control.Flow.Instructions 1 5.7600e-07 5.5150e-05
## - Instructions.Issued 1 5.7780e-07 5.5152e-05
## - Issue.Slots 1 5.7880e-07 5.5153e-05
## - Global.Load.Transactions.Per.Request 1 8.5360e-07 5.5427e-05
## - L2.Write.Transactions..L1.write.requests. 1 1.2075e-06 5.5781e-05
## - Global.Load.Transactions 1 1.2698e-06 5.5844e-05
## - Block.X 1 1.2824e-06 5.5856e-05
## - L2.Read.Transactions 1 1.5561e-06 5.6130e-05
## - Issued.IPC 1 1.7397e-06 5.6314e-05
## - L2.Write.Transactions 1 1.8869e-06 5.6461e-05
## - Bus 1 1.9103e-06 5.6484e-05
## - Issue.Slot.Utilization 1 2.0021e-06 5.6576e-05
## - Issued.Load.Store.Instructions 1 2.0194e-06 5.6593e-05
## - Executed.Load.Store.Instructions 1 3.1959e-06 5.7770e-05
## - L2.Read.Transactions..L1.read.requests. 1 5.1630e-06 5.9737e-05
##
## AIC

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## - L2 -8959.7
## - fb_subp1_write_sectors -8959.2
## - Device.Memory.Write.Transactions -8959.2
## <none> -8958.3
## - Memoryclock -8956.4
## - fb_subp1_read_sectors -8955.6
## - Grid.X -8955.6
## - fb_subp0_read_sectors -8955.3
## - Issued.Control.Flow.Instructions -8954.4
## - Executed.Control.Flow.Instructions -8954.4
## - Instructions.Issued -8954.4
## - Issue.Slots -8954.4
## - Global.Load.Transactions.Per.Request -8951.6
## - L2.Write.Transactions..L1.write.requests. -8948.1
## - Global.Load.Transactions -8947.5
## - Block.X -8947.3
## - L2.Read.Transactions -8944.6
## - Issued.IPC -8942.8
## - L2.Write.Transactions -8941.3
## - Bus -8941.1
## - Issue.Slot.Utilization -8940.2
## - Issued.Load.Store.Instructions -8940.0
## - Executed.Load.Store.Instructions -8928.5
## - L2.Read.Transactions..L1.read.requests. -8909.9
##
## Step: AIC=-8959.72
## trainingSet$Duration ~ Bus + Memoryclock + Issued.IPC + Issue.Slot.Utilization +
## Global.Load.Transactions.Per.Request + Global.Load.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Instructions.Issued +
## Issue.Slots + L2.Read.Transactions..L1.read.requests. + L2.Write.Transactions..L1.write.requests
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp1_write_sectors +
## Grid.X + Block.X
##
##
## Df Sum of Sq RSS
## - fb_subp1_write_sectors 1 9.3000e-08 5.4723e-05
## - Device.Memory.Write.Transactions 1 9.4100e-08 5.4724e-05
## <none> 5.4630e-05
## - Memoryclock 1 3.4950e-07 5.4980e-05
## - fb_subp1_read_sectors 1 4.4860e-07 5.5079e-05
## - fb_subp0_read_sectors 1 4.7760e-07 5.5108e-05
## - Grid.X 1 4.9780e-07 5.5128e-05
## - Issued.Control.Flow.Instructions 1 5.2070e-07 5.5151e-05
## - Executed.Control.Flow.Instructions 1 5.2190e-07 5.5152e-05
## - Instructions.Issued 1 5.2360e-07 5.5154e-05
## - Issue.Slots 1 5.2460e-07 5.5155e-05
## - Global.Load.Transactions.Per.Request 1 8.0120e-07 5.5431e-05
## - L2.Write.Transactions..L1.write.requests. 1 1.2170e-06 5.5847e-05
## - Global.Load.Transactions 1 1.2268e-06 5.5857e-05
## - Block.X 1 1.2269e-06 5.5857e-05
## - L2.Read.Transactions 1 1.5605e-06 5.6191e-05
## - L2.Write.Transactions 1 1.8806e-06 5.6511e-05

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## - Issued.Load.Store.Instructions      1 2.0531e-06 5.6683e-05
## - Issued.IPC                          1 3.0543e-06 5.7684e-05
## - Executed.Load.Store.Instructions    1 3.1832e-06 5.7813e-05
## - Issue.Slot.Utilization              1 3.3738e-06 5.8004e-05
## - Bus                                1 3.5007e-06 5.8131e-05
## - L2.Read.Transactions..L1.read.requests. 1 5.2534e-06 5.9883e-05
##                                     AIC
## - fb_subp1_write_sectors              -8960.8
## - Device.Memory.Write.Transactions    -8960.8
## <none>                                -8959.7
## - Memoryclock                         -8958.2
## - fb_subp1_read_sectors               -8957.2
## - fb_subp0_read_sectors               -8956.9
## - Grid.X                             -8956.7
## - Issued.Control.Flow.Instructions    -8956.4
## - Executed.Control.Flow.Instructions  -8956.4
## - Instructions.Issued                  -8956.4
## - Issue.Slots                         -8956.4
## - Global.Load.Transactions.Per.Request -8953.6
## - L2.Write.Transactions..L1.write.requests. -8949.4
## - Global.Load.Transactions            -8949.3
## - Block.X                             -8949.3
## - L2.Read.Transactions                 -8946.0
## - L2.Write.Transactions                -8942.8
## - Issued.Load.Store.Instructions      -8941.1
## - Issued.IPC                          -8931.4
## - Executed.Load.Store.Instructions     -8930.1
## - Issue.Slot.Utilization               -8928.3
## - Bus                                 -8927.1
## - L2.Read.Transactions..L1.read.requests. -8910.5
##
## Step: AIC=-8960.77
## trainingSet$Duration ~ Bus + Memoryclock + Issued.IPC + Issue.Slot.Utilization +
##   Global.Load.Transactions.Per.Request + Global.Load.Transactions +
##   Device.Memory.Write.Transactions + L2.Read.Transactions +
##   L2.Write.Transactions + Issued.Control.Flow.Instructions +
##   Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##   Executed.Load.Store.Instructions + Instructions.Issued +
##   Issue.Slots + L2.Read.Transactions..L1.read.requests. + L2.Write.Transactions..L1.write.requests
##   fb_subp0_read_sectors + fb_subp1_read_sectors + Grid.X +
##   Block.X
##
##                                     Df Sum of Sq      RSS
## - Device.Memory.Write.Transactions    1 5.4200e-08 5.4777e-05
## <none>                                5.4723e-05
## - Memoryclock                         1 3.4910e-07 5.5072e-05
## - fb_subp1_read_sectors               1 4.7880e-07 5.5202e-05
## - Grid.X                             1 5.0370e-07 5.5227e-05
## - fb_subp0_read_sectors               1 5.1020e-07 5.5233e-05
## - Issued.Control.Flow.Instructions    1 5.2750e-07 5.5251e-05
## - Executed.Control.Flow.Instructions  1 5.2870e-07 5.5252e-05
## - Instructions.Issued                  1 5.3040e-07 5.5253e-05
## - Issue.Slots                         1 5.3150e-07 5.5254e-05
## - Global.Load.Transactions.Per.Request 1 8.1190e-07 5.5535e-05

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## - Global.Load.Transactions          1 1.2121e-06 5.5935e-05
## - L2.Write.Transactions..L1.write.requests. 1 1.2409e-06 5.5964e-05
## - Block.X                          1 1.2438e-06 5.5967e-05
## - L2.Read.Transactions              1 1.5823e-06 5.6305e-05
## - L2.Write.Transactions             1 1.8377e-06 5.6561e-05
## - Issued.Load.Store.Instructions    1 2.0874e-06 5.6810e-05
## - Issued.IPC                       1 3.0762e-06 5.7799e-05
## - Executed.Load.Store.Instructions  1 3.2057e-06 5.7929e-05
## - Issue.Slot.Utilization            1 3.3958e-06 5.8119e-05
## - Bus                              1 3.4862e-06 5.8209e-05
## - L2.Read.Transactions..L1.read.requests. 1 5.2437e-06 5.9967e-05
##                                     AIC
## - Device.Memory.Write.Transactions -8962.2
## <none>                             -8960.8
## - Memoryclock                      -8959.2
## - fb_subp1_read_sectors            -8957.9
## - Grid.X                           -8957.7
## - fb_subp0_read_sectors            -8957.6
## - Issued.Control.Flow.Instructions -8957.4
## - Executed.Control.Flow.Instructions -8957.4
## - Instructions.Issued               -8957.4
## - Issue.Slots                      -8957.4
## - Global.Load.Transactions.Per.Request -8954.6
## - Global.Load.Transactions          -8950.5
## - L2.Write.Transactions..L1.write.requests. -8950.3
## - Block.X                          -8950.2
## - L2.Read.Transactions              -8946.9
## - L2.Write.Transactions             -8944.3
## - Issued.Load.Store.Instructions    -8941.9
## - Issued.IPC                       -8932.3
## - Executed.Load.Store.Instructions  -8931.0
## - Issue.Slot.Utilization            -8929.2
## - Bus                              -8928.3
## - L2.Read.Transactions..L1.read.requests. -8911.7
##
## Step: AIC=-8962.22
## trainingSet$Duration ~ Bus + Memoryclock + Issued.IPC + Issue.Slot.Utilization +
##   Global.Load.Transactions.Per.Request + Global.Load.Transactions +
##   L2.Read.Transactions + L2.Write.Transactions + Issued.Control.Flow.Instructions +
##   Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##   Executed.Load.Store.Instructions + Instructions.Issued +
##   Issue.Slots + L2.Read.Transactions..L1.read.requests. + L2.Write.Transactions..L1.write.requests
##   fb_subp0_read_sectors + fb_subp1_read_sectors + Grid.X +
##   Block.X
##
##                                     Df Sum of Sq      RSS
## <none>                             1 4.0580e-07 5.4777e-05
## - Memoryclock                      1 4.0580e-07 5.5183e-05
## - fb_subp1_read_sectors             1 4.3930e-07 5.5217e-05
## - fb_subp0_read_sectors             1 4.7490e-07 5.5252e-05
## - Grid.X                           1 4.8660e-07 5.5264e-05
## - Issued.Control.Flow.Instructions  1 5.0210e-07 5.5279e-05
## - Executed.Control.Flow.Instructions 1 5.0320e-07 5.5280e-05
## - Instructions.Issued               1 5.0480e-07 5.5282e-05

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## - Issue.Slots 1 5.0580e-07 5.5283e-05
## - Global.Load.Transactions.Per.Request 1 7.9170e-07 5.5569e-05
## - Global.Load.Transactions 1 1.2039e-06 5.5981e-05
## - Block.X 1 1.2251e-06 5.6002e-05
## - L2.Write.Transactions..L1.write.requests. 1 1.2691e-06 5.6046e-05
## - L2.Read.Transactions 1 1.6330e-06 5.6410e-05
## - L2.Write.Transactions 1 1.8377e-06 5.6615e-05
## - Issued.Load.Store.Instructions 1 2.0374e-06 5.6815e-05
## - Issued.IPC 1 3.0240e-06 5.7801e-05
## - Issue.Slot.Utilization 1 3.3439e-06 5.8121e-05
## - Executed.Load.Store.Instructions 1 3.4302e-06 5.8207e-05
## - Bus 1 3.4944e-06 5.8272e-05
## - L2.Read.Transactions..L1.read.requests. 1 5.2093e-06 5.9986e-05
## AIC
## <none> -8962.2
## - Memoryclock -8960.1
## - fb_subp1_read_sectors -8959.8
## - fb_subp0_read_sectors -8959.4
## - Grid.X -8959.3
## - Issued.Control.Flow.Instructions -8959.1
## - Executed.Control.Flow.Instructions -8959.1
## - Instructions.Issued -8959.1
## - Issue.Slots -8959.1
## - Global.Load.Transactions.Per.Request -8956.2
## - Global.Load.Transactions -8952.1
## - Block.X -8951.9
## - L2.Write.Transactions..L1.write.requests. -8951.4
## - L2.Read.Transactions -8947.8
## - L2.Write.Transactions -8945.8
## - Issued.Load.Store.Instructions -8943.8
## - Issued.IPC -8934.2
## - Issue.Slot.Utilization -8931.2
## - Executed.Load.Store.Instructions -8930.3
## - Bus -8929.7
## - L2.Read.Transactions..L1.read.requests. -8913.5
## Start: AIC=-15197.93
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
## Control.Flow.Instructions + Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + warps_launched + threads_launched +
## inst_executed + inst_issued1 + inst_issued2 + gld_inst_32bit +

```

```

##      gst_inst_32bit + gld_request + gst_request + Grid.X + Block.X
##
##
## Step:  AIC=-15197.93
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##      Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##      Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
##      Global.Store.Transactions + Device.Memory.Read.Transactions +
##      Device.Memory.Write.Transactions + L2.Read.Transactions +
##      L2.Write.Transactions + Issued.Control.Flow.Instructions +
##      Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##      Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
##      Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
##      Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
##      Control.Flow.Instructions + Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
##      L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
##      Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##      fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##      fb_subp1_write_sectors + warps_launched + threads_launched +
##      inst_executed + inst_issued1 + inst_issued2 + gld_inst_32bit +
##      gst_inst_32bit + gld_request + gst_request + Block.X
##
##
## Step:  AIC=-15197.93
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##      Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##      Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
##      Global.Store.Transactions + Device.Memory.Read.Transactions +
##      Device.Memory.Write.Transactions + L2.Read.Transactions +
##      L2.Write.Transactions + Issued.Control.Flow.Instructions +
##      Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##      Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
##      Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
##      Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
##      Control.Flow.Instructions + Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
##      L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
##      Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##      fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##      fb_subp1_write_sectors + warps_launched + threads_launched +
##      inst_executed + inst_issued1 + inst_issued2 + gld_inst_32bit +
##      gst_inst_32bit + gld_request + Block.X
##
##
## Step:  AIC=-15197.93
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##      Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##      Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
##      Global.Store.Transactions + Device.Memory.Read.Transactions +

```

```

## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
## Control.Flow.Instructions + Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + warps_launched + threads_launched +
## inst_executed + inst_issued1 + inst_issued2 + gld_inst_32bit +
## gst_inst_32bit + Block.X
##
##
## Step: AIC=-15197.93
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
## Control.Flow.Instructions + Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + warps_launched + threads_launched +
## inst_executed + inst_issued1 + inst_issued2 + gld_inst_32bit +
## Block.X
##
##
## Step: AIC=-15197.93
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
## Control.Flow.Instructions + Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +

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##      fb_subp1_write_sectors + warps_launched + threads_launched +
##      inst_executed + inst_issued1 + inst_issued2 + Block.X
##
##
## Step:  AIC=-15197.93
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##      Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##      Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
##      Global.Store.Transactions + Device.Memory.Read.Transactions +
##      Device.Memory.Write.Transactions + L2.Read.Transactions +
##      L2.Write.Transactions + Issued.Control.Flow.Instructions +
##      Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##      Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
##      Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
##      Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
##      Control.Flow.Instructions + Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
##      L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
##      Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##      fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##      fb_subp1_write_sectors + warps_launched + threads_launched +
##      inst_issued1 + inst_issued2 + Block.X
##
##
## Step:  AIC=-15197.93
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##      Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##      Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
##      Global.Store.Transactions + Device.Memory.Read.Transactions +
##      Device.Memory.Write.Transactions + L2.Read.Transactions +
##      L2.Write.Transactions + Issued.Control.Flow.Instructions +
##      Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##      Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
##      Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
##      Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
##      Control.Flow.Instructions + Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
##      L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
##      Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##      fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##      fb_subp1_write_sectors + warps_launched + inst_issued1 +
##      inst_issued2 + Block.X
##
##
## Step:  AIC=-15197.93
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##      Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##      Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
##      Global.Store.Transactions + Device.Memory.Read.Transactions +
##      Device.Memory.Write.Transactions + L2.Read.Transactions +

```

```

##      L2.Write.Transactions + Issued.Control.Flow.Instructions +
##      Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##      Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
##      Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
##      Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
##      Control.Flow.Instructions + Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
##      L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
##      Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##      fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##      fb_subp1_write_sectors + inst_issued1 + inst_issued2 + Block.X
##
##
## Step:  AIC=-15197.93
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##      Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##      Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
##      Global.Store.Transactions + Device.Memory.Read.Transactions +
##      Device.Memory.Write.Transactions + L2.Read.Transactions +
##      L2.Write.Transactions + Issued.Control.Flow.Instructions +
##      Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##      Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
##      Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
##      Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
##      Control.Flow.Instructions + L2.Read.Transactions..L1.read.requests. +
##      L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
##      Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##      fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##      fb_subp1_write_sectors + inst_issued1 + inst_issued2 + Block.X
##
##
## Step:  AIC=-15197.93
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##      Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##      Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
##      Global.Store.Transactions + Device.Memory.Read.Transactions +
##      Device.Memory.Write.Transactions + L2.Read.Transactions +
##      L2.Write.Transactions + Issued.Control.Flow.Instructions +
##      Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##      Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
##      Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
##      Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
##      L2.Read.Transactions..L1.read.requests. + L2.Write.Transactions..L1.write.requests. +
##      ECC.Transactions + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##      fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##      fb_subp1_write_sectors + inst_issued1 + inst_issued2 + Block.X
##
##
## Step:  AIC=-15197.93
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +

```



```

## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + inst_issued1 + inst_issued2 + Block.X
##
##
## Step: AIC=-15197.93
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Instructions.Executed + Instructions.Issued + Issue.Slots +
## L2.Read.Transactions..L1.read.requests. + L2.Write.Transactions..L1.write.requests. +
## ECC.Transactions + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + inst_issued1 + inst_issued2 + Block.X
##
##
## Step: AIC=-15197.93
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Instructions.Executed +
## Instructions.Issued + Issue.Slots + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + inst_issued1 + inst_issued2 + Block.X
##
##
## Step: AIC=-15197.93
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +

```

```

## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Store.Transactions +
## Device.Memory.Read.Transactions + Device.Memory.Write.Transactions +
## L2.Read.Transactions + L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Instructions.Executed +
## Instructions.Issued + Issue.Slots + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + inst_issued1 + inst_issued2 + Block.X
##
##
## Step: AIC=-15197.93
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Shared.Load.Transactions +
## Shared.Store.Transactions + Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Instructions.Executed +
## Instructions.Issued + Issue.Slots + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + inst_issued1 + inst_issued2 + Block.X
##
##
## Step: AIC=-15197.93
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Store.Transactions +
## Device.Memory.Read.Transactions + Device.Memory.Write.Transactions +
## L2.Read.Transactions + L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Instructions.Executed +
## Instructions.Issued + Issue.Slots + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + inst_issued1 + inst_issued2 + Block.X
##
##
## Step: AIC=-15197.93
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Store.Transactions.Per.Request + Shared.Load.Transactions +
## Shared.Store.Transactions + Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +

```

```

##      L2.Write.Transactions + Issued.Control.Flow.Instructions +
##      Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##      Executed.Load.Store.Instructions + Instructions.Executed +
##      Instructions.Issued + Issue.Slots + L2.Read.Transactions..L1.read.requests. +
##      L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
##      Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##      fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##      fb_subp1_write_sectors + inst_issued1 + inst_issued2 + Block.X
##
##
## Step:   AIC=-15197.93
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Store.Transactions.Per.Request + Shared.Load.Transactions +
##      Shared.Store.Transactions + Global.Store.Transactions + Device.Memory.Read.Transactions +
##      Device.Memory.Write.Transactions + L2.Read.Transactions +
##      L2.Write.Transactions + Issued.Control.Flow.Instructions +
##      Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##      Executed.Load.Store.Instructions + Instructions.Executed +
##      Instructions.Issued + Issue.Slots + L2.Read.Transactions..L1.read.requests. +
##      L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
##      Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##      fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##      fb_subp1_write_sectors + inst_issued1 + inst_issued2 + Block.X
##
##
##              Df  Sum of Sq      RSS
## - fb_subp0_read_sectors      1 0.0000e+00 0.0023128
## - inst_issued1                1 1.0200e-07 0.0023129
## - Device.Memory.Write.Transactions      1 1.3300e-07 0.0023129
## - Device.Memory.Read.Transactions      1 2.6600e-07 0.0023131
## - fb_subp1_read_sectors      1 3.5700e-07 0.0023131
## - Issued.Load.Store.Instructions      1 1.7950e-06 0.0023146
## - Shared.Store.Transactions      1 1.9340e-06 0.0023147
## - L2.Write.Transactions      1 2.5050e-06 0.0023153
## - Executed.Load.Store.Instructions      1 2.6630e-06 0.0023155
## <none>                                0.0023128
## - fb_subp1_write_sectors      1 5.9580e-06 0.0023188
## - fb_subp0_write_sectors      1 6.6260e-06 0.0023194
## - inst_issued2                1 7.5890e-06 0.0023204
## - ECC.Transactions            1 8.2770e-06 0.0023211
## - L2.Read.Transactions      1 1.1725e-05 0.0023245
## - Executed.Control.Flow.Instructions      1 1.3297e-05 0.0023261
## - Issue.Slots                1 1.7435e-05 0.0023302
## - L2.Write.Transactions..L1.write.requests.      1 1.7999e-05 0.0023308
## - Instructions.Issued        1 2.0809e-05 0.0023336
## - Memoryclock                1 2.3004e-05 0.0023358
## - L2.Read.Transactions..L1.read.requests.      1 2.4612e-05 0.0023374
## - Block.X                    1 2.4672e-05 0.0023375
## - Issued.Control.Flow.Instructions      1 3.4155e-05 0.0023469
## - Input.Size                 1 3.8619e-05 0.0023514
## - Shared.Load.Transactions      1 4.5645e-05 0.0023584
## - Instructions.per.warp        1 4.6044e-05 0.0023588
## - Shared.Memory.Store.Transactions.Per.Request      1 5.2613e-05 0.0023654
## - Instructions.Executed        1 5.3766e-05 0.0023666

```

```

## - L2 1 7.5049e-05 0.0023878
## - Issue.Slot.Utilization 1 9.7889e-05 0.0024107
## - Issued.IPC 1 1.0147e-04 0.0024143
## - Bus 1 1.0438e-04 0.0024172
## - Global.Store.Transactions 1 1.0578e-04 0.0024186
## - FLOP.Efficiency.Peak.Single. 1 1.4950e-04 0.0024623
## - Eligible.Warps.Per.Active.Cycle 1 3.0164e-04 0.0026144
## AIC
## - fb_subp0_read_sectors -15200
## - inst_issued1 -15200
## - Device.Memory.Write.Transactions -15200
## - Device.Memory.Read.Transactions -15200
## - fb_subp1_read_sectors -15200
## - Issued.Load.Store.Instructions -15199
## - Shared.Store.Transactions -15199
## - L2.Write.Transactions -15199
## - Executed.Load.Store.Instructions -15199
## <none> -15198
## - fb_subp1_write_sectors -15197
## - fb_subp0_write_sectors -15197
## - inst_issued2 -15196
## - ECC.Transactions -15196
## - L2.Read.Transactions -15194
## - Executed.Control.Flow.Instructions -15193
## - Issue.Slots -15191
## - L2.Write.Transactions..L1.write.requests. -15191
## - Instructions.Issued -15190
## - Memoryclock -15188
## - L2.Read.Transactions..L1.read.requests. -15188
## - Block.X -15188
## - Issued.Control.Flow.Instructions -15183
## - Input.Size -15181
## - Shared.Load.Transactions -15177
## - Instructions.per.warp -15177
## - Shared.Memory.Store.Transactions.Per.Request -15174
## - Instructions.Executed -15173
## - L2 -15163
## - Issue.Slot.Utilization -15152
## - Issued.IPC -15150
## - Bus -15149
## - Global.Store.Transactions -15148
## - FLOP.Efficiency.Peak.Single. -15127
## - Eligible.Warps.Per.Active.Cycle -15057
##
## Step: AIC=-15199.93
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Store.Transactions.Per.Request + Shared.Load.Transactions +
## Shared.Store.Transactions + Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Instructions.Executed +
## Instructions.Issued + Issue.Slots + L2.Read.Transactions..L1.read.requests. +

```

```

##      L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
##      Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##      fb_subp1_read_sectors + fb_subp0_write_sectors + fb_subp1_write_sectors +
##      inst_issued1 + inst_issued2 + Block.X
##
##
##      Df  Sum of Sq      RSS
## - inst_issued1      1 1.0200e-07 0.0023129
## - Device.Memory.Write.Transactions      1 1.3300e-07 0.0023129
## - Device.Memory.Read.Transactions      1 3.8800e-07 0.0023132
## - fb_subp1_read_sectors      1 3.9300e-07 0.0023132
## - Issued.Load.Store.Instructions      1 1.7950e-06 0.0023146
## - Shared.Store.Transactions      1 1.9340e-06 0.0023147
## - L2.Write.Transactions      1 2.5360e-06 0.0023153
## - Executed.Load.Store.Instructions      1 2.6640e-06 0.0023155
## <none>      0.0023128
## - fb_subp1_write_sectors      1 5.9590e-06 0.0023188
## - fb_subp0_write_sectors      1 6.6280e-06 0.0023194
## - inst_issued2      1 7.5940e-06 0.0023204
## - ECC.Transactions      1 8.2800e-06 0.0023211
## - L2.Read.Transactions      1 1.1740e-05 0.0023245
## - Executed.Control.Flow.Instructions      1 1.3323e-05 0.0023261
## - Issue.Slots      1 1.7436e-05 0.0023302
## - L2.Write.Transactions..L1.write.requests.      1 1.8038e-05 0.0023308
## - Instructions.Issued      1 2.0819e-05 0.0023336
## - Memoryclock      1 2.3018e-05 0.0023358
## - L2.Read.Transactions..L1.read.requests.      1 2.4630e-05 0.0023374
## - Block.X      1 2.4699e-05 0.0023375
## - Issued.Control.Flow.Instructions      1 3.4233e-05 0.0023470
## - Input.Size      1 3.8707e-05 0.0023515
## - Shared.Load.Transactions      1 4.5736e-05 0.0023585
## - Instructions.per.warp      1 4.6082e-05 0.0023589
## - Shared.Memory.Store.Transactions.Per.Request      1 5.2615e-05 0.0023654
## - Instructions.Executed      1 5.3843e-05 0.0023666
## - L2      1 7.5050e-05 0.0023878
## - Issue.Slot.Utilization      1 9.8044e-05 0.0024108
## - Issued.IPC      1 1.0163e-04 0.0024144
## - Bus      1 1.0451e-04 0.0024173
## - Global.Store.Transactions      1 1.0719e-04 0.0024200
## - FLOP.Efficiency.Peak.Single.      1 1.4951e-04 0.0024623
## - Eligible.Warps.Per.Active.Cycle      1 3.0165e-04 0.0026144
##      AIC
## - inst_issued1      -15202
## - Device.Memory.Write.Transactions      -15202
## - Device.Memory.Read.Transactions      -15202
## - fb_subp1_read_sectors      -15202
## - Issued.Load.Store.Instructions      -15201
## - Shared.Store.Transactions      -15201
## - L2.Write.Transactions      -15201
## - Executed.Load.Store.Instructions      -15201
## <none>      -15200
## - fb_subp1_write_sectors      -15199
## - fb_subp0_write_sectors      -15199
## - inst_issued2      -15198
## - ECC.Transactions      -15198

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## - L2.Read.Transactions -15196
## - Executed.Control.Flow.Instructions -15195
## - Issue.Slots -15193
## - L2.Write.Transactions..L1.write.requests. -15193
## - Instructions.Issued -15192
## - Memoryclock -15190
## - L2.Read.Transactions..L1.read.requests. -15190
## - Block.X -15190
## - Issued.Control.Flow.Instructions -15185
## - Input.Size -15183
## - Shared.Load.Transactions -15179
## - Instructions.per.warp -15179
## - Shared.Memory.Store.Transactions.Per.Request -15176
## - Instructions.Executed -15175
## - L2 -15165
## - Issue.Slot.Utilization -15154
## - Issued.IPC -15152
## - Bus -15150
## - Global.Store.Transactions -15149
## - FLOP.Efficiency.Peak.Single. -15129
## - Eligible.Warps.Per.Active.Cycle -15059
##
## Step: AIC=-15201.88
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Store.Transactions.Per.Request + Shared.Load.Transactions +
## Shared.Store.Transactions + Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Instructions.Executed +
## Instructions.Issued + Issue.Slots + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp1_read_sectors + fb_subp0_write_sectors + fb_subp1_write_sectors +
## inst_issued2 + Block.X
##
##
## Df Sum of Sq RSS
## - Device.Memory.Write.Transactions 1 7.6000e-08 0.0023130
## - Device.Memory.Read.Transactions 1 3.8500e-07 0.0023133
## - fb_subp1_read_sectors 1 3.9000e-07 0.0023133
## - Shared.Store.Transactions 1 2.0330e-06 0.0023149
## - Issued.Load.Store.Instructions 1 2.1750e-06 0.0023151
## - L2.Write.Transactions 1 2.5440e-06 0.0023154
## - Executed.Load.Store.Instructions 1 2.8340e-06 0.0023157
## <none> 0.0023129
## - fb_subp1_write_sectors 1 5.8870e-06 0.0023188
## - fb_subp0_write_sectors 1 6.9030e-06 0.0023198
## - inst_issued2 1 8.1930e-06 0.0023211
## - ECC.Transactions 1 8.2970e-06 0.0023212
## - L2.Read.Transactions 1 1.1773e-05 0.0023247
## - Executed.Control.Flow.Instructions 1 1.6229e-05 0.0023291
## - L2.Write.Transactions..L1.write.requests. 1 1.7995e-05 0.0023309
## - Issue.Slots 1 1.8308e-05 0.0023312

```

```

## - Instructions.Issued          1 2.1080e-05 0.0023340
## - Memoryclock                 1 2.3091e-05 0.0023360
## - Block.X                     1 2.4640e-05 0.0023375
## - L2.Read.Transactions..L1.read.requests. 1 2.4724e-05 0.0023376
## - Issued.Control.Flow.Instructions 1 3.6811e-05 0.0023497
## - Input.Size                  1 4.1169e-05 0.0023541
## - Instructions.per.warp        1 4.6003e-05 0.0023589
## - Shared.Load.Transactions     1 4.6528e-05 0.0023594
## - Shared.Memory.Store.Transactions.Per.Request 1 5.2643e-05 0.0023655
## - Instructions.Executed        1 5.3967e-05 0.0023669
## - L2                          1 7.4983e-05 0.0023879
## - Issue.Slot.Utilization       1 9.7949e-05 0.0024108
## - Issued.IPC                  1 1.0153e-04 0.0024144
## - Bus                         1 1.0536e-04 0.0024183
## - Global.Store.Transactions    1 1.0917e-04 0.0024221
## - FLOP.Efficiency.Peak.Single. 1 1.4957e-04 0.0024625
## - Eligible.Warps.Per.Active.Cycle 1 3.0163e-04 0.0026145
##                               AIC
## - Device.Memory.Write.Transactions -15204
## - Device.Memory.Read.Transactions -15204
## - fb_subp1_read_sectors          -15204
## - Shared.Store.Transactions      -15203
## - Issued.Load.Store.Instructions -15203
## - L2.Write.Transactions          -15203
## - Executed.Load.Store.Instructions -15202
## <none>                          -15202
## - fb_subp1_write_sectors         -15201
## - fb_subp0_write_sectors         -15200
## - inst_issued2                   -15200
## - ECC.Transactions               -15200
## - L2.Read.Transactions           -15198
## - Executed.Control.Flow.Instructions -15196
## - L2.Write.Transactions..L1.write.requests. -15195
## - Issue.Slots                   -15195
## - Instructions.Issued            -15193
## - Memoryclock                   -15192
## - Block.X                       -15192
## - L2.Read.Transactions..L1.read.requests. -15192
## - Issued.Control.Flow.Instructions -15186
## - Input.Size                    -15183
## - Instructions.per.warp          -15181
## - Shared.Load.Transactions       -15181
## - Shared.Memory.Store.Transactions.Per.Request -15178
## - Instructions.Executed          -15177
## - L2                            -15167
## - Issue.Slot.Utilization         -15156
## - Issued.IPC                    -15154
## - Bus                           -15152
## - Global.Store.Transactions      -15150
## - FLOP.Efficiency.Peak.Single.   -15131
## - Eligible.Warps.Per.Active.Cycle -15061
##
## Step: AIC=-15203.84
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Input.Size +

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```

##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Store.Transactions.Per.Request + Shared.Load.Transactions +
##      Shared.Store.Transactions + Global.Store.Transactions + Device.Memory.Read.Transactions +
##      L2.Read.Transactions + L2.Write.Transactions + Issued.Control.Flow.Instructions +
##      Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##      Executed.Load.Store.Instructions + Instructions.Executed +
##      Instructions.Issued + Issue.Slots + L2.Read.Transactions..L1.read.requests. +
##      L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
##      Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##      fb_subp1_read_sectors + fb_subp0_write_sectors + fb_subp1_write_sectors +
##      inst_issued2 + Block.X
##
##
##              Df  Sum of Sq      RSS
## - Device.Memory.Read.Transactions      1 3.9200e-07 0.0023134
## - fb_subp1_read_sectors                 1 3.9700e-07 0.0023134
## - Shared.Store.Transactions             1 2.0480e-06 0.0023150
## - Issued.Load.Store.Instructions        1 2.1160e-06 0.0023151
## - L2.Write.Transactions                 1 2.5680e-06 0.0023155
## - Executed.Load.Store.Instructions      1 2.8410e-06 0.0023158
## <none>                                0.0023130
## - fb_subp1_write_sectors               1 6.5870e-06 0.0023196
## - ECC.Transactions                     1 8.3100e-06 0.0023213
## - inst_issued2                         1 8.7970e-06 0.0023218
## - fb_subp0_write_sectors               1 9.4810e-06 0.0023225
## - L2.Read.Transactions                 1 1.1834e-05 0.0023248
## - Executed.Control.Flow.Instructions   1 1.6253e-05 0.0023292
## - L2.Write.Transactions..L1.write.requests. 1 1.7982e-05 0.0023310
## - Issue.Slots                         1 1.8719e-05 0.0023317
## - Instructions.Issued                 1 2.1962e-05 0.0023349
## - Memoryclock                        1 2.3119e-05 0.0023361
## - Block.X                            1 2.4633e-05 0.0023376
## - L2.Read.Transactions..L1.read.requests. 1 2.4739e-05 0.0023377
## - Issued.Control.Flow.Instructions     1 3.6737e-05 0.0023497
## - Input.Size                         1 4.1107e-05 0.0023541
## - Instructions.per.warp               1 4.6025e-05 0.0023590
## - Shared.Load.Transactions             1 4.6546e-05 0.0023595
## - Shared.Memory.Store.Transactions.Per.Request 1 5.2625e-05 0.0023656
## - Instructions.Executed               1 5.4211e-05 0.0023672
## - L2                                  1 7.4978e-05 0.0023879
## - Issue.Slot.Utilization              1 9.7918e-05 0.0024109
## - Issued.IPC                         1 1.0151e-04 0.0024145
## - Bus                                1 1.0534e-04 0.0024183
## - Global.Store.Transactions            1 1.0912e-04 0.0024221
## - FLOP.Efficiency.Peak.Single.        1 1.4956e-04 0.0024625
## - Eligible.Warps.Per.Active.Cycle     1 3.0232e-04 0.0026153
##
##              AIC
## - Device.Memory.Read.Transactions     -15206
## - fb_subp1_read_sectors               -15206
## - Shared.Store.Transactions            -15205
## - Issued.Load.Store.Instructions       -15205
## - L2.Write.Transactions                -15205
## - Executed.Load.Store.Instructions     -15204
## <none>                                -15204
## - fb_subp1_write_sectors              -15202

```



```

## - ECC.Transactions -15202
## - inst_issued2 -15201
## - fb_subp0_write_sectors -15201
## - L2.Read.Transactions -15200
## - Executed.Control.Flow.Instructions -15198
## - L2.Write.Transactions..L1.write.requests. -15197
## - Issue.Slots -15196
## - Instructions.Issued -15195
## - Memoryclock -15194
## - Block.X -15194
## - L2.Read.Transactions..L1.read.requests. -15194
## - Issued.Control.Flow.Instructions -15188
## - Input.Size -15185
## - Instructions.per.warp -15183
## - Shared.Load.Transactions -15183
## - Shared.Memory.Store.Transactions.Per.Request -15180
## - Instructions.Executed -15179
## - L2 -15169
## - Issue.Slot.Utilization -15158
## - Issued.IPC -15156
## - Bus -15154
## - Global.Store.Transactions -15152
## - FLOP.Efficiency.Peak.Single. -15133
## - Eligible.Warps.Per.Active.Cycle -15063
##
## Step: AIC=-15205.64
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Store.Transactions.Per.Request + Shared.Load.Transactions +
## Shared.Store.Transactions + Global.Store.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Instructions.Executed +
## Instructions.Issued + Issue.Slots + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp1_read_sectors + fb_subp0_write_sectors + fb_subp1_write_sectors +
## inst_issued2 + Block.X
##
##
## Df Sum of Sq RSS
## - fb_subp1_read_sectors 1 5.4000e-08 0.0023134
## - Shared.Store.Transactions 1 2.0500e-06 0.0023154
## - Issued.Load.Store.Instructions 1 2.1260e-06 0.0023155
## - L2.Write.Transactions 1 2.6160e-06 0.0023160
## - Executed.Load.Store.Instructions 1 2.8270e-06 0.0023162
## <none> 0.0023134
## - fb_subp1_write_sectors 1 6.5840e-06 0.0023199
## - ECC.Transactions 1 8.2930e-06 0.0023217
## - inst_issued2 1 8.8150e-06 0.0023222
## - fb_subp0_write_sectors 1 9.4800e-06 0.0023228
## - L2.Read.Transactions 1 1.2050e-05 0.0023254
## - Executed.Control.Flow.Instructions 1 1.6281e-05 0.0023296
## - L2.Write.Transactions..L1.write.requests. 1 1.7780e-05 0.0023311
## - Issue.Slots 1 1.8747e-05 0.0023321

```

```

## - Instructions.Issued          1 2.1996e-05 0.0023354
## - Memoryclock                 1 2.3232e-05 0.0023366
## - Block.X                     1 2.4481e-05 0.0023378
## - L2.Read.Transactions..L1.read.requests. 1 2.4903e-05 0.0023383
## - Issued.Control.Flow.Instructions 1 3.6804e-05 0.0023502
## - Input.Size                  1 4.1176e-05 0.0023545
## - Instructions.per.warp        1 4.5833e-05 0.0023592
## - Shared.Load.Transactions     1 4.6626e-05 0.0023600
## - Shared.Memory.Store.Transactions.Per.Request 1 5.2717e-05 0.0023661
## - Instructions.Executed        1 5.4308e-05 0.0023677
## - L2                          1 7.5006e-05 0.0023884
## - Issue.Slot.Utilization       1 9.7848e-05 0.0024112
## - Issued.IPC                  1 1.0145e-04 0.0024148
## - Bus                         1 1.0524e-04 0.0024186
## - Global.Store.Transactions    1 1.0910e-04 0.0024225
## - FLOP.Efficiency.Peak.Single. 1 1.4992e-04 0.0024633
## - Eligible.Warps.Per.Active.Cycle 1 3.0235e-04 0.0026157
##                               AIC
## - fb_subp1_read_sectors       -15208
## - Shared.Store.Transactions    -15207
## - Issued.Load.Store.Instructions -15207
## - L2.Write.Transactions        -15206
## - Executed.Load.Store.Instructions -15206
## <none>                        -15206
## - fb_subp1_write_sectors      -15204
## - ECC.Transactions            -15204
## - inst_issued2                -15203
## - fb_subp0_write_sectors      -15203
## - L2.Read.Transactions        -15202
## - Executed.Control.Flow.Instructions -15200
## - L2.Write.Transactions..L1.write.requests. -15199
## - Issue.Slots                 -15198
## - Instructions.Issued          -15197
## - Memoryclock                 -15196
## - Block.X                     -15195
## - L2.Read.Transactions..L1.read.requests. -15195
## - Issued.Control.Flow.Instructions -15189
## - Input.Size                  -15187
## - Instructions.per.warp        -15185
## - Shared.Load.Transactions     -15184
## - Shared.Memory.Store.Transactions.Per.Request -15181
## - Instructions.Executed        -15181
## - L2                          -15170
## - Issue.Slot.Utilization       -15160
## - Issued.IPC                  -15158
## - Bus                         -15156
## - Global.Store.Transactions    -15154
## - FLOP.Efficiency.Peak.Single. -15135
## - Eligible.Warps.Per.Active.Cycle -15065
##
## Step: AIC=-15207.62
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Input.Size +
##     Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##     Shared.Memory.Store.Transactions.Per.Request + Shared.Load.Transactions +

```

```

##      Shared.Store.Transactions + Global.Store.Transactions + L2.Read.Transactions +
##      L2.Write.Transactions + Issued.Control.Flow.Instructions +
##      Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##      Executed.Load.Store.Instructions + Instructions.Executed +
##      Instructions.Issued + Issue.Slots + L2.Read.Transactions..L1.read.requests. +
##      L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
##      Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##      fb_subp0_write_sectors + fb_subp1_write_sectors + inst_issued2 +
##      Block.X
##
##
##              Df  Sum of Sq      RSS
## - Shared.Store.Transactions      1 0.00000205 0.0023155
## - Issued.Load.Store.Instructions  1 0.00000212 0.0023155
## - L2.Write.Transactions           1 0.00000263 0.0023160
## - Executed.Load.Store.Instructions 1 0.00000285 0.0023163
## <none>                                0.0023134
## - fb_subp1_write_sectors          1 0.00000657 0.0023200
## - inst_issued2                    1 0.00000880 0.0023222
## - fb_subp0_write_sectors          1 0.00000947 0.0023229
## - L2.Read.Transactions            1 0.00001208 0.0023255
## - Executed.Control.Flow.Instructions 1 0.00001626 0.0023297
## - L2.Write.Transactions..L1.write.requests. 1 0.00001783 0.0023313
## - Issue.Slots                    1 0.00001875 0.0023322
## - Instructions.Issued             1 0.00002199 0.0023354
## - Memoryclock                    1 0.00002345 0.0023369
## - Block.X                        1 0.00002443 0.0023378
## - L2.Read.Transactions..L1.read.requests. 1 0.00002499 0.0023384
## - Issued.Control.Flow.Instructions 1 0.00003678 0.0023502
## - Input.Size                     1 0.00004112 0.0023545
## - Instructions.per.warp           1 0.00004578 0.0023592
## - Shared.Load.Transactions        1 0.00004660 0.0023600
## - Shared.Memory.Store.Transactions.Per.Request 1 0.00005269 0.0023661
## - Instructions.Executed           1 0.00005428 0.0023677
## - L2                             1 0.00007557 0.0023890
## - Issue.Slot.Utilization          1 0.00009806 0.0024115
## - Issued.IPC                     1 0.00010168 0.0024151
## - Bus                            1 0.00010615 0.0024196
## - Global.Store.Transactions       1 0.00010924 0.0024227
## - FLOP.Efficiency.Peak.Single.    1 0.00015011 0.0024635
## - Eligible.Warps.Per.Active.Cycle 1 0.00030266 0.0026161
## - ECC.Transactions               1 0.00108559 0.0033990
##              AIC
## - Shared.Store.Transactions      -15209
## - Issued.Load.Store.Instructions  -15209
## - L2.Write.Transactions           -15208
## - Executed.Load.Store.Instructions -15208
## <none>                            -15208
## - fb_subp1_write_sectors          -15206
## - inst_issued2                    -15205
## - fb_subp0_write_sectors          -15205
## - L2.Read.Transactions            -15204
## - Executed.Control.Flow.Instructions -15202
## - L2.Write.Transactions..L1.write.requests. -15201
## - Issue.Slots                    -15200

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## - Instructions.Issued -15199
## - Memoryclock -15198
## - Block.X -15197
## - L2.Read.Transactions..L1.read.requests. -15197
## - Issued.Control.Flow.Instructions -15191
## - Input.Size -15189
## - Instructions.per.warp -15187
## - Shared.Load.Transactions -15186
## - Shared.Memory.Store.Transactions.Per.Request -15183
## - Instructions.Executed -15183
## - L2 -15172
## - Issue.Slot.Utilization -15161
## - Issued.IPC -15160
## - Bus -15157
## - Global.Store.Transactions -15156
## - FLOP.Efficiency.Peak.Single. -15136
## - Eligible.Warps.Per.Active.Cycle -15067
## - ECC.Transactions -14762
##
## Step: AIC=-15208.59
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Store.Transactions.Per.Request + Shared.Load.Transactions +
## Global.Store.Transactions + L2.Read.Transactions + L2.Write.Transactions +
## Issued.Control.Flow.Instructions + Executed.Control.Flow.Instructions +
## Issued.Load.Store.Instructions + Executed.Load.Store.Instructions +
## Instructions.Executed + Instructions.Issued + Issue.Slots +
## L2.Read.Transactions..L1.read.requests. + L2.Write.Transactions..L1.write.requests. +
## ECC.Transactions + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_write_sectors + fb_subp1_write_sectors + inst_issued2 +
## Block.X
##
##
## Df Sum of Sq RSS
## - L2.Write.Transactions 1 0.00000262 0.0023181
## - Executed.Load.Store.Instructions 1 0.00000326 0.0023187
## <none> 0.0023155
## - Issued.Load.Store.Instructions 1 0.00000484 0.0023203
## - fb_subp1_write_sectors 1 0.00000602 0.0023215
## - inst_issued2 1 0.00000879 0.0023243
## - fb_subp0_write_sectors 1 0.00000882 0.0023243
## - L2.Read.Transactions 1 0.00001208 0.0023275
## - Issue.Slots 1 0.00001671 0.0023322
## - L2.Write.Transactions..L1.write.requests. 1 0.00001784 0.0023333
## - Executed.Control.Flow.Instructions 1 0.00001940 0.0023349
## - Instructions.Issued 1 0.00002043 0.0023359
## - Memoryclock 1 0.00002369 0.0023392
## - L2.Read.Transactions..L1.read.requests. 1 0.00002495 0.0023404
## - Block.X 1 0.00002518 0.0023406
## - Issued.Control.Flow.Instructions 1 0.00003725 0.0023527
## - Input.Size 1 0.00004242 0.0023579
## - Instructions.per.warp 1 0.00004692 0.0023624
## - Shared.Load.Transactions 1 0.00004762 0.0023631
## - Shared.Memory.Store.Transactions.Per.Request 1 0.00005125 0.0023667
## - Instructions.Executed 1 0.00005225 0.0023677

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## - L2 1 0.00007530 0.0023908
## - Issue.Slot.Utilization 1 0.00009890 0.0024144
## - Issued.IPC 1 0.00010250 0.0024180
## - Bus 1 0.00010640 0.0024219
## - Global.Store.Transactions 1 0.00011828 0.0024337
## - FLOP.Efficiency.Peak.Single. 1 0.00014944 0.0024649
## - Eligible.Warps.Per.Active.Cycle 1 0.00030397 0.0026194
## - ECC.Transactions 1 0.00108550 0.0034010
## AIC
## - L2.Write.Transactions -15209
## - Executed.Load.Store.Instructions -15209
## <none> -15209
## - Issued.Load.Store.Instructions -15208
## - fb_subp1_write_sectors -15208
## - inst_issued2 -15206
## - fb_subp0_write_sectors -15206
## - L2.Read.Transactions -15204
## - Issue.Slots -15202
## - L2.Write.Transactions..L1.write.requests. -15202
## - Executed.Control.Flow.Instructions -15201
## - Instructions.Issued -15200
## - Memoryclock -15199
## - L2.Read.Transactions..L1.read.requests. -15198
## - Block.X -15198
## - Issued.Control.Flow.Instructions -15192
## - Input.Size -15190
## - Instructions.per.warp -15187
## - Shared.Load.Transactions -15187
## - Shared.Memory.Store.Transactions.Per.Request -15185
## - Instructions.Executed -15185
## - L2 -15173
## - Issue.Slot.Utilization -15162
## - Issued.IPC -15160
## - Bus -15158
## - Global.Store.Transactions -15153
## - FLOP.Efficiency.Peak.Single. -15138
## - Eligible.Warps.Per.Active.Cycle -15067
## - ECC.Transactions -14764
##
## Step: AIC=-15209.27
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Store.Transactions.Per.Request + Shared.Load.Transactions +
## Global.Store.Transactions + L2.Read.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Instructions.Executed +
## Instructions.Issued + Issue.Slots + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_write_sectors + fb_subp1_write_sectors + inst_issued2 +
## Block.X
##
## Df Sum of Sq RSS
## - Executed.Load.Store.Instructions 1 0.00000323 0.0023213

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## <none>		0.0023181
## - Issued.Load.Store.Instructions	1	0.00000484 0.0023229
## - fb_subp1_write_sectors	1	0.00000609 0.0023242
## - inst_issued2	1	0.00000879 0.0023269
## - fb_subp0_write_sectors	1	0.00000894 0.0023270
## - L2.Read.Transactions	1	0.00001155 0.0023296
## - Issue.Slots	1	0.00001668 0.0023348
## - L2.Write.Transactions..L1.write.requests.	1	0.00001732 0.0023354
## - Executed.Control.Flow.Instructions	1	0.00001953 0.0023376
## - Instructions.Issued	1	0.00002047 0.0023386
## - Memoryclock	1	0.00002411 0.0023422
## - L2.Read.Transactions..L1.read.requests.	1	0.00002432 0.0023424
## - Block.X	1	0.00002536 0.0023435
## - Issued.Control.Flow.Instructions	1	0.00003739 0.0023555
## - Input.Size	1	0.00004259 0.0023607
## - Instructions.per.warp	1	0.00004712 0.0023652
## - Shared.Load.Transactions	1	0.00004775 0.0023658
## - Shared.Memory.Store.Transactions.Per.Request	1	0.00005122 0.0023693
## - Instructions.Executed	1	0.00005234 0.0023704
## - L2	1	0.00007451 0.0023926
## - Issue.Slot.Utilization	1	0.00009922 0.0024173
## - Issued.IPC	1	0.00010282 0.0024209
## - Bus	1	0.00010904 0.0024271
## - FLOP.Efficiency.Peak.Single.	1	0.00014924 0.0024673
## - Global.Store.Transactions	1	0.00016111 0.0024792
## - Eligible.Warps.Per.Active.Cycle	1	0.00030327 0.0026214
## - ECC.Transactions	1	0.00108406 0.0034022
##		AIC
## - Executed.Load.Store.Instructions	-15210	
## <none>	-15209	
## - Issued.Load.Store.Instructions	-15209	
## - fb_subp1_write_sectors	-15208	
## - inst_issued2	-15207	
## - fb_subp0_write_sectors	-15207	
## - L2.Read.Transactions	-15206	
## - Issue.Slots	-15203	
## - L2.Write.Transactions..L1.write.requests.	-15203	
## - Executed.Control.Flow.Instructions	-15202	
## - Instructions.Issued	-15201	
## - Memoryclock	-15199	
## - L2.Read.Transactions..L1.read.requests.	-15199	
## - Block.X	-15199	
## - Issued.Control.Flow.Instructions	-15193	
## - Input.Size	-15190	
## - Instructions.per.warp	-15188	
## - Shared.Load.Transactions	-15188	
## - Shared.Memory.Store.Transactions.Per.Request	-15186	
## - Instructions.Executed	-15185	
## - L2	-15174	
## - Issue.Slot.Utilization	-15162	
## - Issued.IPC	-15161	
## - Bus	-15158	
## - FLOP.Efficiency.Peak.Single.	-15139	
## - Global.Store.Transactions	-15133	

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## - Eligible.Warps.Per.Active.Cycle -15068
## - ECC.Transactions -14765
##
## Step: AIC=-15209.65
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Store.Transactions.Per.Request + Shared.Load.Transactions +
## Global.Store.Transactions + L2.Read.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Instructions.Executed + Instructions.Issued + Issue.Slots +
## L2.Read.Transactions..L1.read.requests. + L2.Write.Transactions..L1.write.requests. +
## ECC.Transactions + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_write_sectors + fb_subp1_write_sectors + inst_issued2 +
## Block.X
##
##
## Df Sum of Sq RSS
## <none> 0.0023213
## - fb_subp1_write_sectors 1 0.00000642 0.0023277
## - fb_subp0_write_sectors 1 0.00000931 0.0023306
## - inst_issued2 1 0.00000969 0.0023310
## - L2.Read.Transactions 1 0.00001150 0.0023328
## - L2.Write.Transactions..L1.write.requests. 1 0.00001749 0.0023388
## - Issue.Slots 1 0.00002255 0.0023439
## - L2.Read.Transactions..L1.read.requests. 1 0.00002404 0.0023454
## - Memoryclock 1 0.00002478 0.0023461
## - Issued.Load.Store.Instructions 1 0.00002725 0.0023486
## - Block.X 1 0.00002797 0.0023493
## - Executed.Control.Flow.Instructions 1 0.00002909 0.0023504
## - Instructions.Issued 1 0.00003083 0.0023521
## - Shared.Memory.Store.Transactions.Per.Request 1 0.00005072 0.0023720
## - Instructions.per.warp 1 0.00005124 0.0023726
## - Issued.Control.Flow.Instructions 1 0.00006058 0.0023819
## - Input.Size 1 0.00006847 0.0023898
## - L2 1 0.00007329 0.0023946
## - Shared.Load.Transactions 1 0.00007894 0.0024003
## - Instructions.Executed 1 0.00008393 0.0024052
## - Issue.Slot.Utilization 1 0.00009926 0.0024206
## - Issued.IPC 1 0.00010276 0.0024241
## - Bus 1 0.00011103 0.0024323
## - FLOP.Efficiency.Peak.Single. 1 0.00014609 0.0024674
## - Global.Store.Transactions 1 0.00018051 0.0025018
## - Eligible.Warps.Per.Active.Cycle 1 0.00031212 0.0026334
## - ECC.Transactions 1 0.00109192 0.0034132
## AIC
## <none> -15210
## - fb_subp1_write_sectors -15208
## - fb_subp0_write_sectors -15207
## - inst_issued2 -15207
## - L2.Read.Transactions -15206
## - L2.Write.Transactions..L1.write.requests. -15203
## - Issue.Slots -15200
## - L2.Read.Transactions..L1.read.requests. -15200
## - Memoryclock -15199
## - Issued.Load.Store.Instructions -15198

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## - Block.X -15198
## - Executed.Control.Flow.Instructions -15197
## - Instructions.Issued -15196
## - Shared.Memory.Store.Transactions.Per.Request -15186
## - Instructions.per.warp -15186
## - Issued.Control.Flow.Instructions -15182
## - Input.Size -15178
## - L2 -15176
## - Shared.Load.Transactions -15173
## - Instructions.Executed -15170
## - Issue.Slot.Utilization -15163
## - Issued.IPC -15161
## - Bus -15157
## - FLOP.Efficiency.Peak.Single. -15141
## - Global.Store.Transactions -15125
## - Eligible.Warps.Per.Active.Cycle -15065
## - ECC.Transactions -14763
## Start: AIC=-15590.99
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
## Control.Flow.Instructions + Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + warps_launched + threads_launched +
## inst_executed + inst_issued1 + inst_issued2 + gld_inst_32bit +
## gst_inst_32bit + gld_request + gst_request + Grid.X + Block.X
##
##
## Step: AIC=-15590.99
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
## Control.Flow.Instructions + Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +

```



```

## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + warps_launched + threads_launched +
## inst_executed + inst_issued1 + inst_issued2 + gld_inst_32bit +
## gst_inst_32bit + gld_request + Grid.X + Block.X
##
##
## Step: AIC=-15590.99
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
## Control.Flow.Instructions + Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + warps_launched + threads_launched +
## inst_executed + inst_issued1 + inst_issued2 + gld_inst_32bit +
## gst_inst_32bit + Grid.X + Block.X
##
##
## Step: AIC=-15590.99
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
## Control.Flow.Instructions + Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + warps_launched + threads_launched +
## inst_executed + inst_issued1 + inst_issued2 + gld_inst_32bit +
## Grid.X + Block.X
##
##
## Step: AIC=-15590.99
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +

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## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
## Control.Flow.Instructions + Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + warps_launched + threads_launched +
## inst_executed + inst_issued1 + inst_issued2 + Grid.X + Block.X
##
##
## Step: AIC=-15590.99
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
## Control.Flow.Instructions + Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + warps_launched + threads_launched +
## inst_executed + inst_issued1 + Grid.X + Block.X
##
##
## Step: AIC=-15590.99
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
## Control.Flow.Instructions + Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +

```

```

## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + warps_launched + threads_launched +
## inst_issued1 + Grid.X + Block.X
##
##
## Step: AIC=-15590.99
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
## Control.Flow.Instructions + Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + warps_launched + inst_issued1 +
## Grid.X + Block.X
##
##
## Step: AIC=-15590.99
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
## Control.Flow.Instructions + Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + inst_issued1 + Grid.X + Block.X
##
##
## Step: AIC=-15590.99
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +

```

```

## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
## Control.Flow.Instructions + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + inst_issued1 + Grid.X + Block.X
##
##
## Step: AIC=-15590.99
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
## L2.Read.Transactions..L1.read.requests. + L2.Write.Transactions..L1.write.requests. +
## ECC.Transactions + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + inst_issued1 + Grid.X + Block.X
##
##
## Step: AIC=-15590.99
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + inst_issued1 + Grid.X + Block.X
##
##
## Step: AIC=-15590.99
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +

```

```

## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + inst_issued1 + Grid.X + Block.X
##
##
## Step: AIC=-15590.99
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Issued +
## L2.Read.Transactions..L1.read.requests. + L2.Write.Transactions..L1.write.requests. +
## ECC.Transactions + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + inst_issued1 + Grid.X + Block.X
##
##
## Step: AIC=-15590.99
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Instructions.Issued + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + inst_issued1 + Grid.X + Block.X
##
##
## Step: AIC=-15590.99
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +

```

```

##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##      Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##      Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
##      Global.Store.Transactions + Device.Memory.Read.Transactions +
##      Device.Memory.Write.Transactions + L2.Read.Transactions +
##      L2.Write.Transactions + Issued.Control.Flow.Instructions +
##      Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##      Executed.Load.Store.Instructions + Instructions.Issued +
##      L2.Read.Transactions..L1.read.requests. + L2.Write.Transactions..L1.write.requests. +
##      ECC.Transactions + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##      fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##      fb_subp1_write_sectors + inst_issued1 + Grid.X + Block.X
##
##
## Step:   AIC=-15590.99
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##      Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##      Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
##      Global.Store.Transactions + Device.Memory.Read.Transactions +
##      Device.Memory.Write.Transactions + L2.Read.Transactions +
##      L2.Write.Transactions + Executed.Control.Flow.Instructions +
##      Issued.Load.Store.Instructions + Executed.Load.Store.Instructions +
##      Instructions.Issued + L2.Read.Transactions..L1.read.requests. +
##      L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
##      Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##      fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##      fb_subp1_write_sectors + inst_issued1 + Grid.X + Block.X
##
##
## Step:   AIC=-15590.99
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##      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.Transactions + L2.Write.Transactions + Executed.Control.Flow.Instructions +
##      Issued.Load.Store.Instructions + Executed.Load.Store.Instructions +
##      Instructions.Issued + L2.Read.Transactions..L1.read.requests. +
##      L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
##      Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##      fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##      fb_subp1_write_sectors + inst_issued1 + Grid.X + Block.X
##
##
## Step:   AIC=-15590.99
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##      Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##      Shared.Load.Transactions + Shared.Store.Transactions + Device.Memory.Read.Transactions +

```

```

## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Executed.Control.Flow.Instructions +
## Issued.Load.Store.Instructions + Executed.Load.Store.Instructions +
## Instructions.Issued + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + inst_issued1 + Grid.X + Block.X
##
##
## Step: AIC=-15590.99
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Executed.Control.Flow.Instructions +
## Issued.Load.Store.Instructions + Executed.Load.Store.Instructions +
## Instructions.Issued + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + inst_issued1 + Grid.X + Block.X
##
##
## Step: AIC=-15590.99
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Device.Memory.Read.Transactions + Device.Memory.Write.Transactions +
## L2.Read.Transactions + L2.Write.Transactions + Executed.Control.Flow.Instructions +
## Issued.Load.Store.Instructions + Executed.Load.Store.Instructions +
## Instructions.Issued + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + inst_issued1 + Grid.X + Block.X
##
##
## Step: AIC=-15590.99
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Executed.Control.Flow.Instructions +
## Issued.Load.Store.Instructions + Executed.Load.Store.Instructions +
## Instructions.Issued + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + inst_issued1 + Grid.X + Block.X

```

```

##
##
## Step: AIC=-15590.99
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Device.Memory.Read.Transactions + Device.Memory.Write.Transactions +
## L2.Read.Transactions + L2.Write.Transactions + Executed.Control.Flow.Instructions +
## Issued.Load.Store.Instructions + Executed.Load.Store.Instructions +
## Instructions.Issued + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + inst_issued1 + Grid.X + Block.X
##
##
## Step: AIC=-15590.99
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Executed.Control.Flow.Instructions +
## Issued.Load.Store.Instructions + Executed.Load.Store.Instructions +
## Instructions.Issued + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + inst_issued1 + Grid.X + Block.X
##
##
## Step: AIC=-15590.99
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Device.Memory.Read.Transactions + Device.Memory.Write.Transactions +
## L2.Read.Transactions + L2.Write.Transactions + Executed.Control.Flow.Instructions +
## Issued.Load.Store.Instructions + Executed.Load.Store.Instructions +
## Instructions.Issued + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + inst_issued1 + Grid.X + Block.X
##
##
## Step: AIC=-15590.99
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Device.Memory.Read.Transactions + Device.Memory.Write.Transactions +
## L2.Read.Transactions + L2.Write.Transactions + Executed.Control.Flow.Instructions +
## Issued.Load.Store.Instructions + Executed.Load.Store.Instructions +
## Instructions.Issued + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + inst_issued1 + Grid.X + Block.X

```



```

##
##
## - inst_issued1          Df Sum of Sq      RSS
## - fb_subp0_write_sectors 1 3.0000e-09 0.00073073
## - L2                    1 2.4000e-08 0.00073075
## - Executed.Load.Store.Instructions 1 4.1000e-08 0.00073077
## - Block.X               1 5.5000e-08 0.00073078
## - fb_subp0_read_sectors  1 5.6000e-08 0.00073078
## - Input.Size            1 6.5000e-08 0.00073079
## - Eligible.Warps.Per.Active.Cycle 1 7.3000e-08 0.00073080
## - Memoryclock           1 1.0100e-07 0.00073083
## - fb_subp1_read_sectors  1 3.4700e-07 0.00073108
## - Device.Memory.Write.Transactions 1 4.0100e-07 0.00073113
## - fb_subp1_write_sectors  1 4.1200e-07 0.00073114
## - Device.Memory.Read.Transactions 1 5.2100e-07 0.00073125
## - ECC.Transactions       1 8.5200e-07 0.00073158
## - Instructions.Issued    1 9.6700e-07 0.00073169
## <none>                  0.00073073
## - L2.Read.Transactions   1 1.3520e-06 0.00073208
## - FLOP.Efficiency.Peak.Single. 1 1.4580e-06 0.00073219
## - Executed.Control.Flow.Instructions 1 1.8700e-06 0.00073260
## - L2.Write.Transactions..L1.write.requests. 1 1.9260e-06 0.00073265
## - Instructions.per.warp  1 5.0000e-06 0.00073573
## - L2.Read.Transactions..L1.read.requests. 1 7.3950e-06 0.00073812
## - L2.Write.Transactions  1 8.2940e-06 0.00073902
## - Issued.IPC             1 1.7645e-05 0.00074837
## - Issue.Slot.Utilization 1 1.8155e-05 0.00074888
## - Bus                    1 5.9740e-05 0.00079047
## - Issued.Load.Store.Instructions 1 6.8008e-05 0.00079874
## - Grid.X                 1 1.8271e-04 0.00091344
##
## AIC
## - inst_issued1          -15593
## - fb_subp0_write_sectors -15593
## - L2                    -15593
## - Executed.Load.Store.Instructions -15593
## - Block.X               -15593
## - fb_subp0_read_sectors  -15593
## - Input.Size            -15593
## - Eligible.Warps.Per.Active.Cycle -15593
## - Memoryclock           -15593
## - fb_subp1_read_sectors  -15592
## - Device.Memory.Write.Transactions -15592
## - fb_subp1_write_sectors  -15592
## - Device.Memory.Read.Transactions -15592
## - ECC.Transactions       -15592
## - Instructions.Issued    -15592
## <none>                  -15591
## - L2.Read.Transactions   -15591
## - FLOP.Efficiency.Peak.Single. -15591
## - Executed.Control.Flow.Instructions -15590
## - L2.Write.Transactions..L1.write.requests. -15590
## - Instructions.per.warp  -15586
## - L2.Read.Transactions..L1.read.requests. -15582
## - L2.Write.Transactions  -15581

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## - Issued.IPC -15567
## - Issue.Slot.Utilization -15566
## - Bus -15506
## - Issued.Load.Store.Instructions -15495
## - Grid.X -15348
##
## Step: AIC=-15592.99
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Device.Memory.Read.Transactions + Device.Memory.Write.Transactions +
## L2.Read.Transactions + L2.Write.Transactions + Executed.Control.Flow.Instructions +
## Issued.Load.Store.Instructions + Executed.Load.Store.Instructions +
## Instructions.Issued + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + Grid.X + Block.X
##
## Df Sum of Sq RSS
## - fb_subp0_write_sectors 1 3.0000e-09 0.00073073
## - L2 1 2.4000e-08 0.00073075
## - Executed.Load.Store.Instructions 1 4.1000e-08 0.00073077
## - Block.X 1 5.5000e-08 0.00073078
## - fb_subp0_read_sectors 1 5.6000e-08 0.00073078
## - Input.Size 1 6.4000e-08 0.00073079
## - Eligible.Warps.Per.Active.Cycle 1 7.3000e-08 0.00073080
## - Memoryclock 1 1.0100e-07 0.00073083
## - fb_subp1_read_sectors 1 3.4700e-07 0.00073108
## - Device.Memory.Write.Transactions 1 4.0100e-07 0.00073113
## - fb_subp1_write_sectors 1 4.1300e-07 0.00073114
## - Device.Memory.Read.Transactions 1 5.2100e-07 0.00073125
## - ECC.Transactions 1 8.5200e-07 0.00073158
## <none> 0.00073073
## - L2.Read.Transactions 1 1.3530e-06 0.00073208
## - FLOP.Efficiency.Peak.Single. 1 1.4580e-06 0.00073219
## - L2.Write.Transactions..L1.write.requests. 1 1.9280e-06 0.00073266
## - Instructions.per.warp 1 5.0000e-06 0.00073573
## - L2.Read.Transactions..L1.read.requests. 1 7.4190e-06 0.00073815
## - L2.Write.Transactions 1 8.2940e-06 0.00073902
## - Issued.IPC 1 1.7646e-05 0.00074837
## - Issue.Slot.Utilization 1 1.8156e-05 0.00074888
## - Instructions.Issued 1 5.6999e-05 0.00078773
## - Bus 1 5.9752e-05 0.00079048
## - Issued.Load.Store.Instructions 1 6.8452e-05 0.00079918
## - Executed.Control.Flow.Instructions 1 1.0544e-04 0.00083617
## - Grid.X 1 1.8285e-04 0.00091358
## AIC
## - fb_subp0_write_sectors -15595
## - L2 -15595
## - Executed.Load.Store.Instructions -15595
## - Block.X -15595
## - fb_subp0_read_sectors -15595
## - Input.Size -15595
## - Eligible.Warps.Per.Active.Cycle -15595

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## - Memoryclock -15595
## - fb_subp1_read_sectors -15594
## - Device.Memory.Write.Transactions -15594
## - fb_subp1_write_sectors -15594
## - Device.Memory.Read.Transactions -15594
## - ECC.Transactions -15594
## <none> -15593
## - L2.Read.Transactions -15593
## - FLOP.Efficiency.Peak.Single. -15593
## - L2.Write.Transactions..L1.write.requests. -15592
## - Instructions.per.warp -15588
## - L2.Read.Transactions..L1.read.requests. -15584
## - L2.Write.Transactions -15583
## - Issued.IPC -15569
## - Issue.Slot.Utilization -15568
## - Instructions.Issued -15512
## - Bus -15508
## - Issued.Load.Store.Instructions -15496
## - Executed.Control.Flow.Instructions -15447
## - Grid.X -15349
##
## Step: AIC=-15594.98
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Device.Memory.Read.Transactions + Device.Memory.Write.Transactions +
## L2.Read.Transactions + L2.Write.Transactions + Executed.Control.Flow.Instructions +
## Issued.Load.Store.Instructions + Executed.Load.Store.Instructions +
## Instructions.Issued + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp1_write_sectors +
## Grid.X + Block.X
##
##
## Df Sum of Sq RSS
## - L2 1 2.5000e-08 0.00073076
## - Executed.Load.Store.Instructions 1 4.1000e-08 0.00073077
## - fb_subp0_read_sectors 1 5.4000e-08 0.00073079
## - Block.X 1 5.5000e-08 0.00073079
## - Input.Size 1 6.5000e-08 0.00073080
## - Eligible.Warps.Per.Active.Cycle 1 7.3000e-08 0.00073080
## - Memoryclock 1 1.0100e-07 0.00073083
## - fb_subp1_read_sectors 1 3.4600e-07 0.00073108
## - Device.Memory.Read.Transactions 1 5.1800e-07 0.00073125
## - fb_subp1_write_sectors 1 5.2900e-07 0.00073126
## - Device.Memory.Write.Transactions 1 5.4600e-07 0.00073128
## - ECC.Transactions 1 8.5300e-07 0.00073158
## <none> 0.00073073
## - L2.Read.Transactions 1 1.3590e-06 0.00073209
## - FLOP.Efficiency.Peak.Single. 1 1.4570e-06 0.00073219
## - L2.Write.Transactions..L1.write.requests. 1 1.9350e-06 0.00073267
## - Instructions.per.warp 1 5.0020e-06 0.00073573
## - L2.Read.Transactions..L1.read.requests. 1 7.4200e-06 0.00073815
## - L2.Write.Transactions 1 8.2960e-06 0.00073903
## - Issued.IPC 1 1.7644e-05 0.00074838

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## - Issue.Slot.Utilization      1 1.8155e-05 0.00074889
## - Instructions.Issued         1 5.6999e-05 0.00078773
## - Bus                         1 5.9790e-05 0.00079052
## - Issued.Load.Store.Instructions 1 6.8455e-05 0.00079919
## - Executed.Control.Flow.Instructions 1 1.0544e-04 0.00083617
## - Grid.X                     1 1.8286e-04 0.00091359
##                               AIC
## - L2                         -15597
## - Executed.Load.Store.Instructions -15597
## - fb_subp0_read_sectors      -15597
## - Block.X                    -15597
## - Input.Size                 -15597
## - Eligible.Warps.Per.Active.Cycle -15597
## - Memoryclock                -15597
## - fb_subp1_read_sectors      -15596
## - Device.Memory.Read.Transactions -15596
## - fb_subp1_write_sectors     -15596
## - Device.Memory.Write.Transactions -15596
## - ECC.Transactions           -15596
## <none>                       -15595
## - L2.Read.Transactions       -15595
## - FLOP.Efficiency.Peak.Single. -15595
## - L2.Write.Transactions..L1.write.requests. -15594
## - Instructions.per.warp      -15590
## - L2.Read.Transactions..L1.read.requests. -15586
## - L2.Write.Transactions      -15585
## - Issued.IPC                 -15571
## - Issue.Slot.Utilization     -15570
## - Instructions.Issued        -15514
## - Bus                        -15510
## - Issued.Load.Store.Instructions -15498
## - Executed.Control.Flow.Instructions -15449
## - Grid.X                     -15351
##
## Step: AIC=-15596.95
## trainingSet$Duration ~ Bus + Memoryclock + Input.Size + Issued.IPC +
##   Instructions.per.warp + Issue.Slot.Utilization + Device.Memory.Read.Transactions +
##   Device.Memory.Write.Transactions + L2.Read.Transactions +
##   L2.Write.Transactions + Executed.Control.Flow.Instructions +
##   Issued.Load.Store.Instructions + Executed.Load.Store.Instructions +
##   Instructions.Issued + L2.Read.Transactions..L1.read.requests. +
##   L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
##   Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##   fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp1_write_sectors +
##   Grid.X + Block.X
##
##                               Df Sum of Sq      RSS
## - Block.X                    1 0.00000003 0.00073079
## - Executed.Load.Store.Instructions 1 0.00000004 0.00073079
## - Eligible.Warps.Per.Active.Cycle 1 0.00000005 0.00073080
## - fb_subp0_read_sectors       1 0.00000005 0.00073081
## - Input.Size                  1 0.00000006 0.00073082
## - Memoryclock                 1 0.00000008 0.00073084
## - fb_subp1_read_sectors       1 0.00000035 0.00073111

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```

## - Device.Memory.Read.Transactions      1 0.00000052 0.00073127
## - fb_subp1_write_sectors                1 0.00000052 0.00073128
## - Device.Memory.Write.Transactions      1 0.00000054 0.00073129
## - ECC.Transactions                     1 0.00000084 0.00073160
## <none>                                0.00073076
## - L2.Read.Transactions                  1 0.00000135 0.00073211
## - FLOP.Efficiency.Peak.Single.          1 0.00000187 0.00073262
## - L2.Write.Transactions..L1.write.requests. 1 0.00000193 0.00073268
## - Instructions.per.warp                  1 0.00000528 0.00073603
## - L2.Read.Transactions..L1.read.requests. 1 0.00000741 0.00073816
## - L2.Write.Transactions                  1 0.00000830 0.00073905
## - Issued.IPC                            1 0.00001776 0.00074851
## - Issue.Slot.Utilization                 1 0.00001821 0.00074897
## - Instructions.Issued                    1 0.00005825 0.00078901
## - Issued.Load.Store.Instructions         1 0.00006843 0.00079919
## - Executed.Control.Flow.Instructions     1 0.00010727 0.00083803
## - Grid.X                                1 0.00019842 0.00092917
## - Bus                                    1 0.00049363 0.00122439
##                                         AIC
## - Block.X                               -15599
## - Executed.Load.Store.Instructions        -15599
## - Eligible.Warps.Per.Active.Cycle        -15599
## - fb_subp0_read_sectors                  -15599
## - Input.Size                             -15599
## - Memoryclock                            -15599
## - fb_subp1_read_sectors                  -15598
## - Device.Memory.Read.Transactions        -15598
## - fb_subp1_write_sectors                  -15598
## - Device.Memory.Write.Transactions        -15598
## - ECC.Transactions                       -15598
## <none>                                   -15597
## - L2.Read.Transactions                   -15597
## - FLOP.Efficiency.Peak.Single.           -15596
## - L2.Write.Transactions..L1.write.requests. -15596
## - Instructions.per.warp                   -15591
## - L2.Read.Transactions..L1.read.requests. -15588
## - L2.Write.Transactions                   -15586
## - Issued.IPC                             -15572
## - Issue.Slot.Utilization                  -15572
## - Instructions.Issued                     -15515
## - Issued.Load.Store.Instructions          -15500
## - Executed.Control.Flow.Instructions     -15448
## - Grid.X                                 -15335
## - Bus                                    -15031
##
## Step: AIC=-15598.9
## trainingSet$Duration ~ Bus + Memoryclock + Input.Size + Issued.IPC +
##   Instructions.per.warp + Issue.Slot.Utilization + Device.Memory.Read.Transactions +
##   Device.Memory.Write.Transactions + L2.Read.Transactions +
##   L2.Write.Transactions + Executed.Control.Flow.Instructions +
##   Issued.Load.Store.Instructions + Executed.Load.Store.Instructions +
##   Instructions.Issued + L2.Read.Transactions..L1.read.requests. +
##   L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
##   Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +

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```

##      fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp1_write_sectors +
##      Grid.X
##
##                                     Df  Sum of Sq      RSS
## - Eligible.Warps.Per.Active.Cycle      1 0.00000002 0.00073081
## - Executed.Load.Store.Instructions      1 0.00000004 0.00073083
## - fb_subp0_read_sectors                 1 0.00000005 0.00073084
## - Input.Size                           1 0.00000006 0.00073085
## - Memoryclock                          1 0.00000013 0.00073092
## - fb_subp1_read_sectors                 1 0.00000035 0.00073114
## - Device.Memory.Read.Transactions       1 0.00000051 0.00073130
## - fb_subp1_write_sectors               1 0.00000052 0.00073131
## - Device.Memory.Write.Transactions      1 0.00000054 0.00073132
## - ECC.Transactions                     1 0.00000085 0.00073164
## <none>                                0.00073079
## - L2.Read.Transactions                  1 0.00000134 0.00073212
## - FLOP.Efficiency.Peak.Single.         1 0.00000186 0.00073265
## - L2.Write.Transactions..L1.write.requests. 1 0.00000192 0.00073271
## - Instructions.per.warp                 1 0.00000551 0.00073630
## - L2.Read.Transactions..L1.read.requests. 1 0.00000741 0.00073820
## - L2.Write.Transactions                 1 0.00000829 0.00073908
## - Issued.IPC                           1 0.00001842 0.00074921
## - Issue.Slot.Utilization                1 0.00001880 0.00074959
## - Instructions.Issued                   1 0.00006114 0.00079193
## - Issued.Load.Store.Instructions        1 0.00006962 0.00080041
## - Executed.Control.Flow.Instructions    1 0.00011225 0.00084304
## - Grid.X                               1 0.00020050 0.00093128
## - Bus                                   1 0.00049655 0.00122734
##                                     AIC
## - Eligible.Warps.Per.Active.Cycle     -15601
## - Executed.Load.Store.Instructions     -15601
## - fb_subp0_read_sectors                -15601
## - Input.Size                           -15601
## - Memoryclock                          -15601
## - fb_subp1_read_sectors                 -15600
## - Device.Memory.Read.Transactions       -15600
## - fb_subp1_write_sectors               -15600
## - Device.Memory.Write.Transactions      -15600
## - ECC.Transactions                     -15600
## <none>                                -15599
## - L2.Read.Transactions                  -15599
## - FLOP.Efficiency.Peak.Single.         -15598
## - L2.Write.Transactions..L1.write.requests. -15598
## - Instructions.per.warp                 -15593
## - L2.Read.Transactions..L1.read.requests. -15590
## - L2.Write.Transactions                 -15588
## - Issued.IPC                           -15574
## - Issue.Slot.Utilization                -15573
## - Instructions.Issued                   -15512
## - Issued.Load.Store.Instructions        -15501
## - Executed.Control.Flow.Instructions    -15444
## - Grid.X                               -15334
## - Bus                                   -15031
##

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## Step: AIC=-15600.87
## trainingSet$Duration ~ Bus + Memoryclock + Input.Size + Issued.IPC +
##   Instructions.per.warp + Issue.Slot.Utilization + Device.Memory.Read.Transactions +
##   Device.Memory.Write.Transactions + L2.Read.Transactions +
##   L2.Write.Transactions + Executed.Control.Flow.Instructions +
##   Issued.Load.Store.Instructions + Executed.Load.Store.Instructions +
##   Instructions.Issued + L2.Read.Transactions..L1.read.requests. +
##   L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
##   FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
##   fb_subp1_write_sectors + Grid.X
##
##
##           Df Sum of Sq      RSS
## - Executed.Load.Store.Instructions      1 0.00000004 0.00073085
## - fb_subp0_read_sectors                  1 0.00000005 0.00073086
## - Input.Size                             1 0.00000006 0.00073087
## - Memoryclock                           1 0.00000013 0.00073094
## - fb_subp1_read_sectors                  1 0.00000036 0.00073116
## - fb_subp1_write_sectors                 1 0.00000051 0.00073132
## - Device.Memory.Read.Transactions        1 0.00000052 0.00073133
## - Device.Memory.Write.Transactions       1 0.00000053 0.00073134
## - ECC.Transactions                      1 0.00000087 0.00073168
## <none>                                  0.00073081
## - L2.Read.Transactions                   1 0.00000133 0.00073214
## - FLOP.Efficiency.Peak.Single.           1 0.00000190 0.00073271
## - L2.Write.Transactions..L1.write.requests. 1 0.00000192 0.00073273
## - Instructions.per.warp                  1 0.00000550 0.00073631
## - L2.Read.Transactions..L1.read.requests. 1 0.00000740 0.00073821
## - L2.Write.Transactions                  1 0.00000829 0.00073910
## - Issued.IPC                            1 0.00001844 0.00074925
## - Issue.Slot.Utilization                 1 0.00001885 0.00074966
## - Instructions.Issued                    1 0.00007821 0.00080902
## - Issued.Load.Store.Instructions         1 0.00009507 0.00082587
## - Executed.Control.Flow.Instructions     1 0.00014185 0.00087265
## - Grid.X                                1 0.00020834 0.00093915
## - Bus                                    1 0.00049823 0.00122903
##
##           AIC
## - Executed.Load.Store.Instructions      -15603
## - fb_subp0_read_sectors                 -15603
## - Input.Size                           -15603
## - Memoryclock                          -15603
## - fb_subp1_read_sectors                 -15602
## - fb_subp1_write_sectors                -15602
## - Device.Memory.Read.Transactions        -15602
## - Device.Memory.Write.Transactions       -15602
## - ECC.Transactions                      -15602
## <none>                                  -15601
## - L2.Read.Transactions                   -15601
## - FLOP.Efficiency.Peak.Single.           -15600
## - L2.Write.Transactions..L1.write.requests. -15600
## - Instructions.per.warp                  -15595
## - L2.Read.Transactions..L1.read.requests. -15592
## - L2.Write.Transactions                  -15590
## - Issued.IPC                            -15576
## - Issue.Slot.Utilization                 -15575

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```

## - Instructions.Issued -15491
## - Issued.Load.Store.Instructions -15468
## - Executed.Control.Flow.Instructions -15408
## - Grid.X -15327
## - Bus -15031
##
## Step: AIC=-15602.81
## trainingSet$Duration ~ Bus + Memoryclock + Input.Size + Issued.IPC +
## Instructions.per.warp + Issue.Slot.Utilization + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Executed.Control.Flow.Instructions +
## Issued.Load.Store.Instructions + Instructions.Issued + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
## fb_subp1_write_sectors + Grid.X
##
##
## Df Sum of Sq RSS
## - fb_subp0_read_sectors 1 0.00000006 0.00073091
## - Memoryclock 1 0.00000014 0.00073098
## - fb_subp1_read_sectors 1 0.00000035 0.00073120
## - fb_subp1_write_sectors 1 0.00000051 0.00073136
## - Device.Memory.Read.Transactions 1 0.00000053 0.00073137
## - Device.Memory.Write.Transactions 1 0.00000053 0.00073138
## - ECC.Transactions 1 0.00000087 0.00073172
## <none> 0.00073085
## - L2.Read.Transactions 1 0.00000133 0.00073218
## - FLOP.Efficiency.Peak.Single. 1 0.00000190 0.00073275
## - L2.Write.Transactions..L1.write.requests. 1 0.00000192 0.00073277
## - Instructions.per.warp 1 0.00000546 0.00073631
## - L2.Read.Transactions..L1.read.requests. 1 0.00000740 0.00073825
## - L2.Write.Transactions 1 0.00000829 0.00073914
## - Issued.IPC 1 0.00001847 0.00074931
## - Issue.Slot.Utilization 1 0.00001887 0.00074972
## - Input.Size 1 0.00002262 0.00075347
## - Instructions.Issued 1 0.00007823 0.00080908
## - Issued.Load.Store.Instructions 1 0.00009511 0.00082596
## - Executed.Control.Flow.Instructions 1 0.00014183 0.00087268
## - Grid.X 1 0.00020844 0.00093929
## - Bus 1 0.00049819 0.00122903
##
## AIC
## - fb_subp0_read_sectors -15605
## - Memoryclock -15605
## - fb_subp1_read_sectors -15604
## - fb_subp1_write_sectors -15604
## - Device.Memory.Read.Transactions -15604
## - Device.Memory.Write.Transactions -15604
## - ECC.Transactions -15604
## <none> -15603
## - L2.Read.Transactions -15603
## - FLOP.Efficiency.Peak.Single. -15602
## - L2.Write.Transactions..L1.write.requests. -15602
## - Instructions.per.warp -15597
## - L2.Read.Transactions..L1.read.requests. -15594
## - L2.Write.Transactions -15592

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## - Issued.IPC -15577
## - Issue.Slot.Utilization -15577
## - Input.Size -15571
## - Instructions.Issued -15493
## - Issued.Load.Store.Instructions -15470
## - Executed.Control.Flow.Instructions -15410
## - Grid.X -15329
## - Bus -15033
##
## Step: AIC=-15604.72
## trainingSet$Duration ~ Bus + Memoryclock + Input.Size + Issued.IPC +
## Instructions.per.warp + Issue.Slot.Utilization + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Executed.Control.Flow.Instructions +
## Issued.Load.Store.Instructions + Instructions.Issued + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## FLOP.Efficiency.Peak.Single. + fb_subp1_read_sectors + fb_subp1_write_sectors +
## Grid.X
##
## Df Sum of Sq RSS
## - Memoryclock 1 0.00000014 0.00073104
## - fb_subp1_read_sectors 1 0.00000046 0.00073136
## - Device.Memory.Read.Transactions 1 0.00000050 0.00073140
## - fb_subp1_write_sectors 1 0.00000056 0.00073147
## - Device.Memory.Write.Transactions 1 0.00000058 0.00073148
## - ECC.Transactions 1 0.00000086 0.00073176
## <none> 0.00073091
## - L2.Read.Transactions 1 0.00000133 0.00073224
## - FLOP.Efficiency.Peak.Single. 1 0.00000192 0.00073282
## - L2.Write.Transactions..L1.write.requests. 1 0.00000192 0.00073282
## - Instructions.per.warp 1 0.00000549 0.00073640
## - L2.Read.Transactions..L1.read.requests. 1 0.00000740 0.00073831
## - L2.Write.Transactions 1 0.00000829 0.00073920
## - Issued.IPC 1 0.00001858 0.00074949
## - Issue.Slot.Utilization 1 0.00001900 0.00074990
## - Input.Size 1 0.00002270 0.00075361
## - Instructions.Issued 1 0.00007829 0.00080919
## - Issued.Load.Store.Instructions 1 0.00009518 0.00082609
## - Executed.Control.Flow.Instructions 1 0.00014208 0.00087298
## - Grid.X 1 0.00020852 0.00093942
## - Bus 1 0.00049815 0.00122906
## AIC
## - Memoryclock -15606
## - fb_subp1_read_sectors -15606
## - Device.Memory.Read.Transactions -15606
## - fb_subp1_write_sectors -15606
## - Device.Memory.Write.Transactions -15606
## - ECC.Transactions -15605
## <none> -15605
## - L2.Read.Transactions -15605
## - FLOP.Efficiency.Peak.Single. -15604
## - L2.Write.Transactions..L1.write.requests. -15604
## - Instructions.per.warp -15598
## - L2.Read.Transactions..L1.read.requests. -15596

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## - L2.Write.Transactions -15594
## - Issued.IPC -15579
## - Issue.Slot.Utilization -15578
## - Input.Size -15573
## - Instructions.Issued -15495
## - Issued.Load.Store.Instructions -15472
## - Executed.Control.Flow.Instructions -15411
## - Grid.X -15331
## - Bus -15035
##
## Step: AIC=-15606.52
## trainingSet$Duration ~ Bus + Input.Size + Issued.IPC + Instructions.per.warp +
## Issue.Slot.Utilization + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Executed.Control.Flow.Instructions +
## Issued.Load.Store.Instructions + Instructions.Issued + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## FLOP.Efficiency.Peak.Single. + fb_subp1_read_sectors + fb_subp1_write_sectors +
## Grid.X
##
## Df Sum of Sq RSS
## - fb_subp1_read_sectors 1 0.00000046 0.00073150
## - Device.Memory.Read.Transactions 1 0.00000049 0.00073153
## - fb_subp1_write_sectors 1 0.00000056 0.00073160
## - Device.Memory.Write.Transactions 1 0.00000058 0.00073162
## - ECC.Transactions 1 0.00000086 0.00073190
## - L2.Read.Transactions 1 0.00000130 0.00073234
## <none> 0.00073104
## - FLOP.Efficiency.Peak.Single. 1 0.00000183 0.00073287
## - L2.Write.Transactions..L1.write.requests. 1 0.00000196 0.00073300
## - Instructions.per.warp 1 0.00000580 0.00073684
## - L2.Read.Transactions..L1.read.requests. 1 0.00000739 0.00073843
## - L2.Write.Transactions 1 0.00000840 0.00073944
## - Issued.IPC 1 0.00001979 0.00075084
## - Issue.Slot.Utilization 1 0.00002016 0.00075121
## - Input.Size 1 0.00002323 0.00075427
## - Instructions.Issued 1 0.00008010 0.00081115
## - Issued.Load.Store.Instructions 1 0.00010251 0.00083355
## - Executed.Control.Flow.Instructions 1 0.00014724 0.00087828
## - Grid.X 1 0.00021807 0.00094911
## - Bus 1 0.00098615 0.00171719
## AIC
## - fb_subp1_read_sectors -15608
## - Device.Memory.Read.Transactions -15608
## - fb_subp1_write_sectors -15608
## - Device.Memory.Write.Transactions -15608
## - ECC.Transactions -15607
## - L2.Read.Transactions -15607
## <none> -15606
## - FLOP.Efficiency.Peak.Single. -15606
## - L2.Write.Transactions..L1.write.requests. -15606
## - Instructions.per.warp -15600
## - L2.Read.Transactions..L1.read.requests. -15598
## - L2.Write.Transactions -15596

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## - Issued.IPC -15579
## - Issue.Slot.Utilization -15579
## - Input.Size -15574
## - Instructions.Issued -15494
## - Issued.Load.Store.Instructions -15464
## - Executed.Control.Flow.Instructions -15407
## - Grid.X -15321
## - Bus -14669
##
## Step: AIC=-15607.83
## trainingSet$Duration ~ Bus + Input.Size + Issued.IPC + Instructions.per.warp +
## Issue.Slot.Utilization + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Executed.Control.Flow.Instructions +
## Issued.Load.Store.Instructions + Instructions.Issued + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## FLOP.Efficiency.Peak.Single. + fb_subp1_write_sectors + Grid.X
##
## Df Sum of Sq RSS
## - Device.Memory.Read.Transactions 1 0.00000008 0.00073158
## - fb_subp1_write_sectors 1 0.00000084 0.00073234
## - ECC.Transactions 1 0.00000085 0.00073235
## - Device.Memory.Write.Transactions 1 0.00000086 0.00073237
## - L2.Read.Transactions 1 0.00000130 0.00073280
## <none> 0.00073150
## - FLOP.Efficiency.Peak.Single. 1 0.00000185 0.00073335
## - L2.Write.Transactions..L1.write.requests. 1 0.00000194 0.00073344
## - Instructions.per.warp 1 0.00000591 0.00073741
## - L2.Read.Transactions..L1.read.requests. 1 0.00000727 0.00073877
## - L2.Write.Transactions 1 0.00000838 0.00073988
## - Issued.IPC 1 0.00002005 0.00075155
## - Issue.Slot.Utilization 1 0.00002043 0.00075193
## - Input.Size 1 0.00002333 0.00075483
## - Instructions.Issued 1 0.00008013 0.00081163
## - Issued.Load.Store.Instructions 1 0.00010251 0.00083401
## - Executed.Control.Flow.Instructions 1 0.00014716 0.00087866
## - Grid.X 1 0.00021830 0.00094980
## - Bus 1 0.00098628 0.00171778
## AIC
## - Device.Memory.Read.Transactions -15610
## - fb_subp1_write_sectors -15609
## - ECC.Transactions -15609
## - Device.Memory.Write.Transactions -15608
## - L2.Read.Transactions -15608
## <none> -15608
## - FLOP.Efficiency.Peak.Single. -15607
## - L2.Write.Transactions..L1.write.requests. -15607
## - Instructions.per.warp -15601
## - L2.Read.Transactions..L1.read.requests. -15599
## - L2.Write.Transactions -15597
## - Issued.IPC -15580
## - Issue.Slot.Utilization -15580
## - Input.Size -15575
## - Instructions.Issued -15496

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## - Issued.Load.Store.Instructions          -15466
## - Executed.Control.Flow.Instructions      -15408
## - Grid.X                                -15323
## - Bus                                    -14671
##
## Step: AIC=-15609.7
## trainingSet$Duration ~ Bus + Input.Size + Issued.IPC + Instructions.per.warp +
##   Issue.Slot.Utilization + Device.Memory.Write.Transactions +
##   L2.Read.Transactions + L2.Write.Transactions + Executed.Control.Flow.Instructions +
##   Issued.Load.Store.Instructions + Instructions.Issued + L2.Read.Transactions..L1.read.requests. +
##   L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
##   FLOP.Efficiency.Peak.Single. + fb_subp1_write_sectors + Grid.X
##
##              Df Sum of Sq      RSS
## - fb_subp1_write_sectors      1 0.00000077 0.00073236
## - Device.Memory.Write.Transactions 1 0.00000080 0.00073239
## <none>                        0.00073158
## - L2.Read.Transactions      1 0.00000134 0.00073292
## - FLOP.Efficiency.Peak.Single. 1 0.00000182 0.00073340
## - L2.Write.Transactions..L1.write.requests. 1 0.00000199 0.00073357
## - ECC.Transactions          1 0.00000283 0.00073441
## - Instructions.per.warp      1 0.00000582 0.00073741
## - L2.Read.Transactions..L1.read.requests. 1 0.00000729 0.00073888
## - L2.Write.Transactions      1 0.00000842 0.00074000
## - Issued.IPC                1 0.00002000 0.00075158
## - Issue.Slot.Utilization     1 0.00002037 0.00075196
## - Input.Size                 1 0.00002619 0.00075778
## - Instructions.Issued        1 0.00008064 0.00081223
## - Issued.Load.Store.Instructions 1 0.00010321 0.00083479
## - Executed.Control.Flow.Instructions 1 0.00014812 0.00087971
## - Grid.X                    1 0.00024199 0.00097357
## - Bus                       1 0.00098723 0.00171881
##
##              AIC
## - fb_subp1_write_sectors      -15610
## - Device.Memory.Write.Transactions -15610
## <none>                        -15610
## - L2.Read.Transactions      -15610
## - FLOP.Efficiency.Peak.Single. -15609
## - L2.Write.Transactions..L1.write.requests. -15609
## - ECC.Transactions          -15608
## - Instructions.per.warp      -15603
## - L2.Read.Transactions..L1.read.requests. -15601
## - L2.Write.Transactions      -15599
## - Issued.IPC                -15582
## - Issue.Slot.Utilization     -15582
## - Input.Size                 -15573
## - Instructions.Issued        -15497
## - Issued.Load.Store.Instructions -15466
## - Executed.Control.Flow.Instructions -15409
## - Grid.X                    -15297
## - Bus                       -14672
##
## Step: AIC=-15610.54
## trainingSet$Duration ~ Bus + Input.Size + Issued.IPC + Instructions.per.warp +

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## Issue.Slot.Utilization + Device.Memory.Write.Transactions +
## L2.Read.Transactions + L2.Write.Transactions + Executed.Control.Flow.Instructions +
## Issued.Load.Store.Instructions + Instructions.Issued + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## FLOP.Efficiency.Peak.Single. + Grid.X
##
##
## Df Sum of Sq RSS
## - Device.Memory.Write.Transactions 1 0.00000049 0.00073285
## <none> 0.00073236
## - L2.Read.Transactions 1 0.00000137 0.00073373
## - FLOP.Efficiency.Peak.Single. 1 0.00000190 0.00073425
## - L2.Write.Transactions..L1.write.requests. 1 0.00000206 0.00073442
## - ECC.Transactions 1 0.00000341 0.00073577
## - Instructions.per.warp 1 0.00000589 0.00073824
## - L2.Read.Transactions..L1.read.requests. 1 0.00000732 0.00073968
## - L2.Write.Transactions 1 0.00000841 0.00074077
## - Issued.IPC 1 0.00002012 0.00075248
## - Issue.Slot.Utilization 1 0.00002050 0.00075285
## - Input.Size 1 0.00002577 0.00075813
## - Instructions.Issued 1 0.00008111 0.00081347
## - Issued.Load.Store.Instructions 1 0.00010406 0.00083642
## - Executed.Control.Flow.Instructions 1 0.00014879 0.00088115
## - Grid.X 1 0.00024130 0.00097366
## - Bus 1 0.00098685 0.00171921
## AIC
## - Device.Memory.Write.Transactions -15612
## <none> -15610
## - L2.Read.Transactions -15610
## - FLOP.Efficiency.Peak.Single. -15610
## - L2.Write.Transactions..L1.write.requests. -15609
## - ECC.Transactions -15607
## - Instructions.per.warp -15604
## - L2.Read.Transactions..L1.read.requests. -15602
## - L2.Write.Transactions -15600
## - Issued.IPC -15583
## - Issue.Slot.Utilization -15582
## - Input.Size -15574
## - Instructions.Issued -15497
## - Issued.Load.Store.Instructions -15466
## - Executed.Control.Flow.Instructions -15409
## - Grid.X -15299
## - Bus -14674
##
## Step: AIC=-15611.8
## trainingSet$Duration ~ Bus + Input.Size + Issued.IPC + Instructions.per.warp +
## Issue.Slot.Utilization + L2.Read.Transactions + L2.Write.Transactions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Instructions.Issued + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## FLOP.Efficiency.Peak.Single. + Grid.X
##
##
## Df Sum of Sq RSS
## <none> 0.00073285
## - L2.Read.Transactions 1 0.00000138 0.00073423

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## - L2.Write.Transactions..L1.write.requests. 1 0.00000203 0.00073487
## - FLOP.Efficiency.Peak.Single. 1 0.00000203 0.00073488
## - Instructions.per.warp 1 0.00000634 0.00073919
## - L2.Read.Transactions..L1.read.requests. 1 0.00000741 0.00074025
## - L2.Write.Transactions 1 0.00000839 0.00074124
## - Issued.IPC 1 0.00002103 0.00075388
## - Issue.Slot.Utilization 1 0.00002141 0.00075426
## - Input.Size 1 0.00002852 0.00076137
## - Instructions.Issued 1 0.00008067 0.00081351
## - Issued.Load.Store.Instructions 1 0.00010393 0.00083678
## - Executed.Control.Flow.Instructions 1 0.00014865 0.00088150
## - Grid.X 1 0.00025983 0.00099268
## - ECC.Transactions 1 0.00071342 0.00144627
## - Bus 1 0.00099048 0.00172332
## AIC
## <none> -15612
## - L2.Read.Transactions -15612
## - L2.Write.Transactions..L1.write.requests. -15611
## - FLOP.Efficiency.Peak.Single. -15611
## - Instructions.per.warp -15604
## - L2.Read.Transactions..L1.read.requests. -15603
## - L2.Write.Transactions -15601
## - Issued.IPC -15583
## - Issue.Slot.Utilization -15582
## - Input.Size -15572
## - Instructions.Issued -15499
## - Issued.Load.Store.Instructions -15468
## - Executed.Control.Flow.Instructions -15411
## - Grid.X -15280
## - ECC.Transactions -14866
## - Bus -14673
## Start: AIC=-9048.28
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
## Control.Flow.Instructions + Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + warps_launched + threads_launched +
## inst_executed + inst_issued1 + inst_issued2 + gld_inst_32bit +
## gst_inst_32bit + gld_request + gst_request + Grid.X + Block.X
##
##
## Step: AIC=-9048.28

```

```

## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##   Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##   Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##   Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##   Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
##   Global.Store.Transactions + Device.Memory.Read.Transactions +
##   Device.Memory.Write.Transactions + L2.Read.Transactions +
##   L2.Write.Transactions + Issued.Control.Flow.Instructions +
##   Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##   Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
##   Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
##   Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
##   Control.Flow.Instructions + Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
##   L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
##   Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##   fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##   fb_subp1_write_sectors + warps_launched + threads_launched +
##   inst_executed + inst_issued1 + inst_issued2 + gld_inst_32bit +
##   gst_inst_32bit + gld_request + gst_request + Grid.X
##
##
## Step: AIC=-9048.28
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##   Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##   Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##   Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##   Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
##   Global.Store.Transactions + Device.Memory.Read.Transactions +
##   Device.Memory.Write.Transactions + L2.Read.Transactions +
##   L2.Write.Transactions + Issued.Control.Flow.Instructions +
##   Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##   Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
##   Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
##   Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
##   Control.Flow.Instructions + Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
##   L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
##   Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##   fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##   fb_subp1_write_sectors + warps_launched + threads_launched +
##   inst_executed + inst_issued1 + inst_issued2 + gld_inst_32bit +
##   gst_inst_32bit + gld_request + gst_request
##
##
## Step: AIC=-9048.28
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##   Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##   Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##   Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##   Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
##   Global.Store.Transactions + Device.Memory.Read.Transactions +
##   Device.Memory.Write.Transactions + L2.Read.Transactions +
##   L2.Write.Transactions + Issued.Control.Flow.Instructions +
##   Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##   Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +

```

```

## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
## Control.Flow.Instructions + Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + warps_launched + threads_launched +
## inst_executed + inst_issued1 + inst_issued2 + gld_inst_32bit +
## gst_inst_32bit + gld_request
##
##
## Step: AIC=-9048.28
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
## Control.Flow.Instructions + Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + warps_launched + threads_launched +
## inst_executed + inst_issued1 + inst_issued2 + gst_inst_32bit +
## gld_request
##
##
## Step: AIC=-9048.28
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
## Control.Flow.Instructions + Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + warps_launched + inst_executed +
## inst_issued1 + inst_issued2 + gst_inst_32bit + gld_request
##
##

```



```

## Step: AIC=-9048.28
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
## Control.Flow.Instructions + Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + inst_executed + inst_issued1 + inst_issued2 +
## gst_inst_32bit + gld_request
##
##
## Step: AIC=-9048.28
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
## Control.Flow.Instructions + Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + fb_subp0_read_sectors +
## fb_subp1_read_sectors + fb_subp0_write_sectors + fb_subp1_write_sectors +
## inst_executed + inst_issued1 + inst_issued2 + gst_inst_32bit +
## gld_request
##
##
## Step: AIC=-9048.28
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +

```

```

##      Instructions.Issued + Issue.Slots + Control.Flow.Instructions +
##      Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
##      L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
##      Eligible.Warps.Per.Active.Cycle + fb_subp0_read_sectors +
##      fb_subp1_read_sectors + fb_subp0_write_sectors + fb_subp1_write_sectors +
##      inst_executed + inst_issued1 + inst_issued2 + gst_inst_32bit +
##      gld_request
##
##
## Step: AIC=-9048.28
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##      Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##      Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
##      Global.Store.Transactions + Device.Memory.Read.Transactions +
##      Device.Memory.Write.Transactions + L2.Read.Transactions +
##      L2.Write.Transactions + Issued.Control.Flow.Instructions +
##      Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##      Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
##      Instructions.Executed + Instructions.Issued + Issue.Slots +
##      Control.Flow.Instructions + Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
##      L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
##      Eligible.Warps.Per.Active.Cycle + fb_subp0_read_sectors +
##      fb_subp1_read_sectors + fb_subp0_write_sectors + fb_subp1_write_sectors +
##      inst_executed + inst_issued1 + inst_issued2 + gst_inst_32bit +
##      gld_request
##
##
## Step: AIC=-9048.28
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##      Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##      Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
##      Global.Store.Transactions + Device.Memory.Read.Transactions +
##      Device.Memory.Write.Transactions + L2.Read.Transactions +
##      L2.Write.Transactions + Issued.Control.Flow.Instructions +
##      Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##      Executed.Load.Store.Instructions + Instructions.Executed +
##      Instructions.Issued + Issue.Slots + Control.Flow.Instructions +
##      Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
##      L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
##      Eligible.Warps.Per.Active.Cycle + fb_subp0_read_sectors +
##      fb_subp1_read_sectors + fb_subp0_write_sectors + fb_subp1_write_sectors +
##      inst_executed + inst_issued1 + inst_issued2 + gst_inst_32bit +
##      gld_request
##
##
## Step: AIC=-9048.28
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##      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.Transactions + L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Instructions.Executed +
## Instructions.Issued + Issue.Slots + Control.Flow.Instructions +
## Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + fb_subp0_read_sectors +
## fb_subp1_read_sectors + fb_subp0_write_sectors + fb_subp1_write_sectors +
## inst_executed + inst_issued1 + inst_issued2 + gst_inst_32bit +
## gld_request
##
##
## Step: AIC=-9048.28
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Instructions.Executed +
## Instructions.Issued + Issue.Slots + Control.Flow.Instructions +
## Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + fb_subp0_read_sectors +
## fb_subp1_read_sectors + fb_subp0_write_sectors + fb_subp1_write_sectors +
## inst_executed + inst_issued1 + inst_issued2 + gst_inst_32bit +
## gld_request
##
##
## Step: AIC=-9048.28
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Instructions.Executed +
## Instructions.Issued + Issue.Slots + Control.Flow.Instructions +
## Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + fb_subp0_read_sectors +
## fb_subp1_read_sectors + fb_subp0_write_sectors + fb_subp1_write_sectors +
## inst_executed + inst_issued1 + inst_issued2 + gst_inst_32bit +
## gld_request
##
##
## Step: AIC=-9048.28
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +

```

```

##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##      Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##      Device.Memory.Read.Transactions + Device.Memory.Write.Transactions +
##      L2.Read.Transactions + L2.Write.Transactions + Issued.Control.Flow.Instructions +
##      Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##      Executed.Load.Store.Instructions + Instructions.Executed +
##      Instructions.Issued + Issue.Slots + Control.Flow.Instructions +
##      Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
##      L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
##      Eligible.Warps.Per.Active.Cycle + fb_subp0_read_sectors +
##      fb_subp1_read_sectors + fb_subp0_write_sectors + fb_subp1_write_sectors +
##      inst_executed + inst_issued1 + inst_issued2 + gst_inst_32bit +
##      gld_request
##
##
## Step:   AIC=-9048.28
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Global.Load.Transactions.Per.Request +
##      Global.Store.Transactions.Per.Request + Device.Memory.Read.Transactions +
##      Device.Memory.Write.Transactions + L2.Read.Transactions +
##      L2.Write.Transactions + Issued.Control.Flow.Instructions +
##      Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##      Executed.Load.Store.Instructions + Instructions.Executed +
##      Instructions.Issued + Issue.Slots + Control.Flow.Instructions +
##      Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
##      L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
##      Eligible.Warps.Per.Active.Cycle + fb_subp0_read_sectors +
##      fb_subp1_read_sectors + fb_subp0_write_sectors + fb_subp1_write_sectors +
##      inst_executed + inst_issued1 + inst_issued2 + gst_inst_32bit +
##      gld_request
##
##
## Step:   AIC=-9048.28
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Global.Load.Transactions.Per.Request +
##      Global.Store.Transactions.Per.Request + Device.Memory.Read.Transactions +
##      Device.Memory.Write.Transactions + L2.Read.Transactions +
##      L2.Write.Transactions + Issued.Control.Flow.Instructions +
##      Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##      Executed.Load.Store.Instructions + Instructions.Executed +
##      Instructions.Issued + Issue.Slots + Control.Flow.Instructions +
##      Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
##      L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
##      Eligible.Warps.Per.Active.Cycle + fb_subp0_read_sectors +
##      fb_subp1_read_sectors + fb_subp0_write_sectors + fb_subp1_write_sectors +
##      inst_executed + inst_issued1 + inst_issued2 + gst_inst_32bit +
##      gld_request
##
##
##                                     Df  Sum of Sq      RSS
## - Control.Flow.Instructions          1 0.0000e+00 0.0065001
## - Device.Memory.Read.Transactions     1 1.0000e-09 0.0065001

```

## - Device.Memory.Write.Transactions	1	1.0800e-07	0.0065002
## - Global.Store.Transactions.Per.Request	1	2.9100e-07	0.0065004
## - Global.Load.Transactions.Per.Request	1	7.1500e-07	0.0065008
## - Shared.Memory.Load.Transactions.Per.Request	1	1.7100e-06	0.0065018
## - L2.Write.Transactions..L1.write.requests.	1	1.8410e-06	0.0065019
## - Bus	1	2.9380e-06	0.0065030
## - fb_subp0_write_sectors	1	3.7440e-06	0.0065038
## - fb_subp0_read_sectors	1	5.0000e-06	0.0065051
## - fb_subp1_read_sectors	1	6.0100e-06	0.0065061
## - gst_inst_32bit	1	6.7710e-06	0.0065068
## - Issued.Load.Store.Instructions	1	8.0200e-06	0.0065081
## - fb_subp1_write_sectors	1	9.1210e-06	0.0065092
## - inst_executed	1	1.0361e-05	0.0065104
## <none>			0.0065001
## - Instructions.per.warp	1	1.8853e-05	0.0065189
## - gld_request	1	2.0746e-05	0.0065208
## - Input.Size	1	2.1342e-05	0.0065214
## - L2.Read.Transactions..L1.read.requests.	1	2.3444e-05	0.0065235
## - L2	1	3.2276e-05	0.0065323
## - Instructions.Executed	1	3.2384e-05	0.0065324
## - L2.Write.Transactions	1	3.4433e-05	0.0065345
## - inst_issued2	1	4.3165e-05	0.0065432
## - Issue.Slot.Utilization	1	5.2295e-05	0.0065524
## - Issued.Control.Flow.Instructions	1	5.5093e-05	0.0065552
## - Misc.Instructions	1	5.6598e-05	0.0065567
## - Executed.Load.Store.Instructions	1	7.1016e-05	0.0065711
## - Issue.Slots	1	8.2196e-05	0.0065823
## - ECC.Transactions	1	8.2749e-05	0.0065828
## - Instructions.Issued	1	9.0377e-05	0.0065904
## - inst_issued1	1	9.2611e-05	0.0065927
## - Executed.Control.Flow.Instructions	1	1.0061e-04	0.0066007
## - Issued.IPC	1	1.1564e-04	0.0066157
## - Eligible.Warps.Per.Active.Cycle	1	1.4993e-04	0.0066500
## - L2.Read.Transactions	1	2.1570e-04	0.0067158
## - Memoryclock	1	2.4032e-04	0.0067404
##		AIC	
## - Control.Flow.Instructions	-9050.3		
## - Device.Memory.Read.Transactions	-9050.3		
## - Device.Memory.Write.Transactions	-9050.3		
## - Global.Store.Transactions.Per.Request	-9050.2		
## - Global.Load.Transactions.Per.Request	-9050.2		
## - Shared.Memory.Load.Transactions.Per.Request	-9050.1		
## - L2.Write.Transactions..L1.write.requests.	-9050.1		
## - Bus	-9049.9		
## - fb_subp0_write_sectors	-9049.8		
## - fb_subp0_read_sectors	-9049.7		
## - fb_subp1_read_sectors	-9049.6		
## - gst_inst_32bit	-9049.5		
## - Issued.Load.Store.Instructions	-9049.3		
## - fb_subp1_write_sectors	-9049.2		
## - inst_executed	-9049.0		
## <none>	-9048.3		
## - Instructions.per.warp	-9048.0		
## - gld_request	-9047.8		

```

## - Input.Size -9047.7
## - L2.Read.Transactions..L1.read.requests. -9047.5
## - L2 -9046.4
## - Instructions.Executed -9046.4
## - L2.Write.Transactions -9046.2
## - inst_issued2 -9045.1
## - Issue.Slot.Utilization -9044.0
## - Issued.Control.Flow.Instructions -9043.7
## - Misc.Instructions -9043.5
## - Executed.Load.Store.Instructions -9041.8
## - Issue.Slots -9040.5
## - ECC.Transactions -9040.4
## - Instructions.Issued -9039.5
## - inst_issued1 -9039.3
## - Executed.Control.Flow.Instructions -9038.3
## - Issued.IPC -9036.5
## - Eligible.Warps.Per.Active.Cycle -9032.5
## - L2.Read.Transactions -9024.8
## - Memoryclock -9022.0
##
## Step: AIC=-9050.28
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Global.Load.Transactions.Per.Request +
## Global.Store.Transactions.Per.Request + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Instructions.Executed +
## Instructions.Issued + Issue.Slots + Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + fb_subp0_read_sectors +
## fb_subp1_read_sectors + fb_subp0_write_sectors + fb_subp1_write_sectors +
## inst_executed + inst_issued1 + inst_issued2 + gst_inst_32bit +
## gld_request
##
##
## Df Sum of Sq RSS
## - Device.Memory.Read.Transactions 1 1.0000e-09 0.0065001
## - Device.Memory.Write.Transactions 1 1.0900e-07 0.0065002
## - Global.Store.Transactions.Per.Request 1 4.7100e-07 0.0065005
## - Global.Load.Transactions.Per.Request 1 1.4320e-06 0.0065015
## - L2.Write.Transactions..L1.write.requests. 1 1.8420e-06 0.0065019
## - Bus 1 2.9790e-06 0.0065030
## - fb_subp0_write_sectors 1 3.7480e-06 0.0065038
## - Shared.Memory.Load.Transactions.Per.Request 1 4.1240e-06 0.0065042
## - fb_subp0_read_sectors 1 5.0020e-06 0.0065051
## - fb_subp1_read_sectors 1 6.0420e-06 0.0065061
## - gst_inst_32bit 1 6.8170e-06 0.0065069
## - Issued.Load.Store.Instructions 1 8.3420e-06 0.0065084
## - fb_subp1_write_sectors 1 9.2270e-06 0.0065093
## <none> 0.0065001
## - Instructions.per.warp 1 2.0315e-05 0.0065204
## - L2.Read.Transactions..L1.read.requests. 1 2.3445e-05 0.0065235
## - Input.Size 1 2.6137e-05 0.0065262

```

## - L2	1 3.2661e-05 0.0065327
## - L2.Write.Transactions	1 3.4531e-05 0.0065346
## - Instructions.Executed	1 3.4957e-05 0.0065350
## - inst_issued2	1 4.3572e-05 0.0065436
## - Issued.Control.Flow.Instructions	1 5.5093e-05 0.0065552
## - Issue.Slot.Utilization	1 5.5928e-05 0.0065560
## - Misc.Instructions	1 5.9772e-05 0.0065598
## - Executed.Load.Store.Instructions	1 7.5580e-05 0.0065756
## - ECC.Transactions	1 8.2750e-05 0.0065828
## - inst_issued1	1 9.2612e-05 0.0065927
## - Issue.Slots	1 9.3700e-05 0.0065938
## - Instructions.Issued	1 1.0313e-04 0.0066032
## - inst_executed	1 1.2144e-04 0.0066215
## - Issued.IPC	1 1.2257e-04 0.0066226
## - gld_request	1 1.2535e-04 0.0066254
## - Executed.Control.Flow.Instructions	1 1.4196e-04 0.0066420
## - Eligible.Warps.Per.Active.Cycle	1 1.5518e-04 0.0066552
## - L2.Read.Transactions	1 2.1573e-04 0.0067158
## - Memoryclock	1 2.4043e-04 0.0067405
##	AIC
## - Device.Memory.Read.Transactions	-9052.3
## - Device.Memory.Write.Transactions	-9052.3
## - Global.Store.Transactions.Per.Request	-9052.2
## - Global.Load.Transactions.Per.Request	-9052.1
## - L2.Write.Transactions..L1.write.requests.	-9052.1
## - Bus	-9051.9
## - fb_subp0_write_sectors	-9051.8
## - Shared.Memory.Load.Transactions.Per.Request	-9051.8
## - fb_subp0_read_sectors	-9051.7
## - fb_subp1_read_sectors	-9051.6
## - gst_inst_32bit	-9051.5
## - Issued.Load.Store.Instructions	-9051.3
## - fb_subp1_write_sectors	-9051.2
## <none>	-9050.3
## - Instructions.per.warp	-9049.9
## - L2.Read.Transactions..L1.read.requests.	-9049.5
## - Input.Size	-9049.2
## - L2	-9048.4
## - L2.Write.Transactions	-9048.2
## - Instructions.Executed	-9048.1
## - inst_issued2	-9047.1
## - Issued.Control.Flow.Instructions	-9045.7
## - Issue.Slot.Utilization	-9045.6
## - Misc.Instructions	-9045.1
## - Executed.Load.Store.Instructions	-9043.3
## - ECC.Transactions	-9042.4
## - inst_issued1	-9041.2
## - Issue.Slots	-9041.1
## - Instructions.Issued	-9040.0
## - inst_executed	-9037.8
## - Issued.IPC	-9037.7
## - gld_request	-9037.4
## - Executed.Control.Flow.Instructions	-9035.4
## - Eligible.Warps.Per.Active.Cycle	-9033.9

```

## - L2.Read.Transactions -9026.8
## - Memoryclock -9024.0
##
## Step: AIC=-9052.28
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Global.Load.Transactions.Per.Request +
## Global.Store.Transactions.Per.Request + Device.Memory.Write.Transactions +
## L2.Read.Transactions + L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Instructions.Executed +
## Instructions.Issued + Issue.Slots + Misc.Instructions + L2.Read.Transactions..L1.read.requests.
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + fb_subp0_read_sectors +
## fb_subp1_read_sectors + fb_subp0_write_sectors + fb_subp1_write_sectors +
## inst_executed + inst_issued1 + inst_issued2 + gst_inst_32bit +
## gld_request
##
##
## Df Sum of Sq RSS
## - Device.Memory.Write.Transactions 1 1.0900e-07 0.0065002
## - Global.Store.Transactions.Per.Request 1 4.7100e-07 0.0065005
## - Global.Load.Transactions.Per.Request 1 1.4310e-06 0.0065015
## - L2.Write.Transactions..L1.write.requests. 1 1.8410e-06 0.0065019
## - Bus 1 2.9780e-06 0.0065030
## - fb_subp0_write_sectors 1 3.7480e-06 0.0065038
## - Shared.Memory.Load.Transactions.Per.Request 1 4.1230e-06 0.0065042
## - gst_inst_32bit 1 6.8160e-06 0.0065069
## - fb_subp0_read_sectors 1 7.2840e-06 0.0065073
## - Issued.Load.Store.Instructions 1 8.3440e-06 0.0065084
## - fb_subp1_read_sectors 1 8.4450e-06 0.0065085
## - fb_subp1_write_sectors 1 9.2290e-06 0.0065093
## <none> 0.0065001
## - Instructions.per.warp 1 2.0724e-05 0.0065208
## - L2.Read.Transactions..L1.read.requests. 1 2.3455e-05 0.0065235
## - Input.Size 1 2.6137e-05 0.0065262
## - L2 1 3.2667e-05 0.0065327
## - L2.Write.Transactions 1 3.4532e-05 0.0065346
## - Instructions.Executed 1 3.5173e-05 0.0065352
## - inst_issued2 1 4.3588e-05 0.0065437
## - Issued.Control.Flow.Instructions 1 5.5243e-05 0.0065553
## - Issue.Slot.Utilization 1 5.5933e-05 0.0065560
## - Misc.Instructions 1 6.0252e-05 0.0065603
## - Executed.Load.Store.Instructions 1 7.5598e-05 0.0065757
## - ECC.Transactions 1 8.6494e-05 0.0065866
## - inst_issued1 1 9.2619e-05 0.0065927
## - Issue.Slots 1 9.3709e-05 0.0065938
## - Instructions.Issued 1 1.0315e-04 0.0066032
## - inst_executed 1 1.2147e-04 0.0066215
## - Issued.IPC 1 1.2257e-04 0.0066226
## - gld_request 1 1.2537e-04 0.0066254
## - Executed.Control.Flow.Instructions 1 1.4196e-04 0.0066420
## - Eligible.Warps.Per.Active.Cycle 1 1.5518e-04 0.0066553
## - L2.Read.Transactions 1 2.1575e-04 0.0067158
## - Memoryclock 1 2.4059e-04 0.0067407

```



```

##                                     AIC
## - Device.Memory.Write.Transactions -9054.3
## - Global.Store.Transactions.Per.Request -9054.2
## - Global.Load.Transactions.Per.Request -9054.1
## - L2.Write.Transactions..L1.write.requests. -9054.1
## - Bus -9053.9
## - fb_subp0_write_sectors -9053.8
## - Shared.Memory.Load.Transactions.Per.Request -9053.8
## - gst_inst_32bit -9053.5
## - fb_subp0_read_sectors -9053.4
## - Issued.Load.Store.Instructions -9053.3
## - fb_subp1_read_sectors -9053.3
## - fb_subp1_write_sectors -9053.2
## <none> -9052.3
## - Instructions.per.warp -9051.8
## - L2.Read.Transactions..L1.read.requests. -9051.5
## - Input.Size -9051.2
## - L2 -9050.4
## - L2.Write.Transactions -9050.2
## - Instructions.Executed -9050.1
## - inst_issued2 -9049.1
## - Issued.Control.Flow.Instructions -9047.7
## - Issue.Slot.Utilization -9047.6
## - Misc.Instructions -9047.1
## - Executed.Load.Store.Instructions -9045.3
## - ECC.Transactions -9044.0
## - inst_issued1 -9043.2
## - Issue.Slots -9043.1
## - Instructions.Issued -9042.0
## - inst_executed -9039.8
## - Issued.IPC -9039.7
## - gld_request -9039.4
## - Executed.Control.Flow.Instructions -9037.4
## - Eligible.Warps.Per.Active.Cycle -9035.9
## - L2.Read.Transactions -9028.8
## - Memoryclock -9025.9
##
## Step: AIC=-9054.27
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Input.Size +
##   Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##   Shared.Memory.Load.Transactions.Per.Request + Global.Load.Transactions.Per.Request +
##   Global.Store.Transactions.Per.Request + L2.Read.Transactions +
##   L2.Write.Transactions + Issued.Control.Flow.Instructions +
##   Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##   Executed.Load.Store.Instructions + Instructions.Executed +
##   Instructions.Issued + Issue.Slots + Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
##   L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
##   Eligible.Warps.Per.Active.Cycle + fb_subp0_read_sectors +
##   fb_subp1_read_sectors + fb_subp0_write_sectors + fb_subp1_write_sectors +
##   inst_executed + inst_issued1 + inst_issued2 + gst_inst_32bit +
##   gld_request
##
##                                     Df Sum of Sq      RSS
## - Global.Store.Transactions.Per.Request 1 4.8400e-07 0.0065007

```

## - Global.Load.Transactions.Per.Request	1	1.4090e-06	0.0065016
## - L2.Write.Transactions..L1.write.requests.	1	1.8600e-06	0.0065020
## - Bus	1	2.9670e-06	0.0065031
## - Shared.Memory.Load.Transactions.Per.Request	1	4.0940e-06	0.0065043
## - fb_subp0_write_sectors	1	5.2520e-06	0.0065054
## - gst_inst_32bit	1	7.0950e-06	0.0065073
## - fb_subp0_read_sectors	1	7.2700e-06	0.0065074
## - fb_subp1_read_sectors	1	8.4170e-06	0.0065086
## - Issued.Load.Store.Instructions	1	8.4770e-06	0.0065087
## - fb_subp1_write_sectors	1	1.4508e-05	0.0065147
## <none>			0.0065002
## - Instructions.per.warp	1	2.0913e-05	0.0065211
## - L2.Read.Transactions..L1.read.requests.	1	2.3627e-05	0.0065238
## - Input.Size	1	2.6340e-05	0.0065265
## - L2	1	3.2575e-05	0.0065328
## - L2.Write.Transactions	1	3.4429e-05	0.0065346
## - Instructions.Executed	1	3.5376e-05	0.0065356
## - inst_issued2	1	4.3550e-05	0.0065437
## - Issued.Control.Flow.Instructions	1	5.5407e-05	0.0065556
## - Issue.Slot.Utilization	1	5.5863e-05	0.0065560
## - Misc.Instructions	1	6.0316e-05	0.0065605
## - Executed.Load.Store.Instructions	1	7.5543e-05	0.0065757
## - ECC.Transactions	1	8.6415e-05	0.0065866
## - inst_issued1	1	9.2656e-05	0.0065928
## - Issue.Slots	1	9.3731e-05	0.0065939
## - Instructions.Issued	1	1.0317e-04	0.0066033
## - inst_executed	1	1.2140e-04	0.0066216
## - Issued.IPC	1	1.2248e-04	0.0066227
## - gld_request	1	1.2870e-04	0.0066289
## - Executed.Control.Flow.Instructions	1	1.4192e-04	0.0066421
## - Eligible.Warps.Per.Active.Cycle	1	1.5538e-04	0.0066556
## - L2.Read.Transactions	1	2.1583e-04	0.0067160
## - Memoryclock	1	2.4348e-04	0.0067437
##		AIC	
## - Global.Store.Transactions.Per.Request	-9056.2		
## - Global.Load.Transactions.Per.Request	-9056.1		
## - L2.Write.Transactions..L1.write.requests.	-9056.0		
## - Bus	-9055.9		
## - Shared.Memory.Load.Transactions.Per.Request	-9055.8		
## - fb_subp0_write_sectors	-9055.6		
## - gst_inst_32bit	-9055.4		
## - fb_subp0_read_sectors	-9055.4		
## - fb_subp1_read_sectors	-9055.3		
## - Issued.Load.Store.Instructions	-9055.3		
## - fb_subp1_write_sectors	-9054.5		
## <none>	-9054.3		
## - Instructions.per.warp	-9053.8		
## - L2.Read.Transactions..L1.read.requests.	-9053.4		
## - Input.Size	-9053.1		
## - L2	-9052.4		
## - L2.Write.Transactions	-9052.2		
## - Instructions.Executed	-9052.0		
## - inst_issued2	-9051.1		
## - Issued.Control.Flow.Instructions	-9049.7		

```

## - Issue.Slot.Utilization -9049.6
## - Misc.Instructions -9049.1
## - Executed.Load.Store.Instructions -9047.3
## - ECC.Transactions -9046.0
## - inst_issued1 -9045.2
## - Issue.Slots -9045.1
## - Instructions.Issued -9044.0
## - inst_executed -9041.8
## - Issued.IPC -9041.7
## - gld_request -9041.0
## - Executed.Control.Flow.Instructions -9039.4
## - Eligible.Warps.Per.Active.Cycle -9037.8
## - L2.Read.Transactions -9030.8
## - Memoryclock -9027.6
##
## Step: AIC=-9056.21
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Global.Load.Transactions.Per.Request +
## L2.Read.Transactions + L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Instructions.Executed +
## Instructions.Issued + Issue.Slots + Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
## L2.Write.Transactions..L1.write.requests. + ECC.Transactions +
## Eligible.Warps.Per.Active.Cycle + fb_subp0_read_sectors +
## fb_subp1_read_sectors + fb_subp0_write_sectors + fb_subp1_write_sectors +
## inst_executed + inst_issued1 + inst_issued2 + gst_inst_32bit +
## gld_request
##
##
## Df Sum of Sq RSS
## - L2.Write.Transactions..L1.write.requests. 1 2.0090e-06 0.0065027
## - Bus 1 3.8960e-06 0.0065046
## - Global.Load.Transactions.Per.Request 1 4.4490e-06 0.0065051
## - fb_subp0_write_sectors 1 5.6350e-06 0.0065063
## - fb_subp0_read_sectors 1 7.2060e-06 0.0065079
## - fb_subp1_read_sectors 1 8.4280e-06 0.0065091
## - gst_inst_32bit 1 1.1744e-05 0.0065124
## - fb_subp1_write_sectors 1 1.5280e-05 0.0065159
## <none> 0.0065007
## - Issued.Load.Store.Instructions 1 1.8554e-05 0.0065192
## - Instructions.per.warp 1 2.0492e-05 0.0065212
## - Shared.Memory.Load.Transactions.Per.Request 1 2.2525e-05 0.0065232
## - L2.Read.Transactions..L1.read.requests. 1 2.3981e-05 0.0065246
## - L2.Write.Transactions 1 3.4604e-05 0.0065353
## - Instructions.Executed 1 3.4895e-05 0.0065356
## - L2 1 3.6621e-05 0.0065373
## - inst_issued2 1 4.3071e-05 0.0065437
## - Input.Size 1 4.8960e-05 0.0065496
## - Issued.Control.Flow.Instructions 1 5.5847e-05 0.0065565
## - Issue.Slot.Utilization 1 5.8846e-05 0.0065595
## - Misc.Instructions 1 5.9835e-05 0.0065605
## - Executed.Load.Store.Instructions 1 8.4656e-05 0.0065853
## - ECC.Transactions 1 8.6138e-05 0.0065868
## - inst_issued1 1 9.3124e-05 0.0065938

```

```

## - Issue.Slots          1 9.3712e-05 0.0065944
## - Instructions.Issued   1 1.0321e-04 0.0066039
## - inst_executed        1 1.2338e-04 0.0066240
## - gld_request          1 1.3149e-04 0.0066322
## - Issued.IPC           1 1.3679e-04 0.0066374
## - Executed.Control.Flow.Instructions 1 1.4338e-04 0.0066440
## - Eligible.Warps.Per.Active.Cycle    1 1.8590e-04 0.0066866
## - L2.Read.Transactions 1 2.1561e-04 0.0067163
## - Memoryclock          1 2.4715e-04 0.0067478
##                               AIC
## - L2.Write.Transactions..L1.write.requests. -9058.0
## - Bus -9057.7
## - Global.Load.Transactions.Per.Request -9057.7
## - fb_subp0_write_sectors -9057.5
## - fb_subp0_read_sectors -9057.3
## - fb_subp1_read_sectors -9057.2
## - gst_inst_32bit -9056.8
## - fb_subp1_write_sectors -9056.4
## <none> -9056.2
## - Issued.Load.Store.Instructions -9056.0
## - Instructions.per.warp -9055.8
## - Shared.Memory.Load.Transactions.Per.Request -9055.5
## - L2.Read.Transactions..L1.read.requests. -9055.3
## - L2.Write.Transactions -9054.1
## - Instructions.Executed -9054.0
## - L2 -9053.8
## - inst_issued2 -9053.1
## - Input.Size -9052.4
## - Issued.Control.Flow.Instructions -9051.5
## - Issue.Slot.Utilization -9051.2
## - Misc.Instructions -9051.1
## - Executed.Load.Store.Instructions -9048.1
## - ECC.Transactions -9047.9
## - inst_issued1 -9047.1
## - Issue.Slots -9047.0
## - Instructions.Issued -9045.9
## - inst_executed -9043.5
## - gld_request -9042.6
## - Issued.IPC -9042.0
## - Executed.Control.Flow.Instructions -9041.2
## - Eligible.Warps.Per.Active.Cycle -9036.2
## - L2.Read.Transactions -9032.8
## - Memoryclock -9029.1
##

```

```
## Step: AIC=-9057.97
```

```
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Input.Size +
```

```
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
```

```
## Shared.Memory.Load.Transactions.Per.Request + Global.Load.Transactions.Per.Request +
```

```
## L2.Read.Transactions + L2.Write.Transactions + Issued.Control.Flow.Instructions +
```

```
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
```

```
## Executed.Load.Store.Instructions + Instructions.Executed +
```

```
## Instructions.Issued + Issue.Slots + Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
```

```
## ECC.Transactions + Eligible.Warps.Per.Active.Cycle + fb_subp0_read_sectors +
```

```
## fb_subp1_read_sectors + fb_subp0_write_sectors + fb_subp1_write_sectors +
```

```

##      inst_executed + inst_issued1 + inst_issued2 + gst_inst_32bit +
##      gld_request
##
##                                     Df  Sum of Sq      RSS
## - Global.Load.Transactions.Per.Request    1 3.8430e-06 0.0065065
## - Bus                                     1 4.2580e-06 0.0065069
## - fb_subp0_write_sectors                  1 5.5480e-06 0.0065082
## - fb_subp0_read_sectors                   1 7.3040e-06 0.0065100
## - fb_subp1_read_sectors                   1 8.2960e-06 0.0065110
## - gst_inst_32bit                          1 1.1883e-05 0.0065146
## - fb_subp1_write_sectors                  1 1.5768e-05 0.0065184
## <none>                                     0.0065027
## - Issued.Load.Store.Instructions          1 1.8475e-05 0.0065211
## - Instructions.per.warp                   1 2.1163e-05 0.0065238
## - Shared.Memory.Load.Transactions.Per.Request 1 2.1539e-05 0.0065242
## - L2.Read.Transactions..L1.read.requests. 1 2.5075e-05 0.0065277
## - L2.Write.Transactions                   1 3.3314e-05 0.0065360
## - Instructions.Executed                   1 3.5783e-05 0.0065385
## - L2                                     1 3.6603e-05 0.0065393
## - inst_issued2                           1 4.4787e-05 0.0065475
## - Input.Size                             1 4.8809e-05 0.0065515
## - Issued.Control.Flow.Instructions        1 5.6697e-05 0.0065594
## - Issue.Slot.Utilization                  1 5.6987e-05 0.0065597
## - Misc.Instructions                       1 6.1266e-05 0.0065639
## - Executed.Load.Store.Instructions        1 8.3305e-05 0.0065860
## - ECC.Transactions                       1 8.5958e-05 0.0065886
## - inst_issued1                           1 9.3329e-05 0.0065960
## - Issue.Slots                             1 9.6083e-05 0.0065988
## - Instructions.Issued                     1 1.0575e-04 0.0066084
## - inst_executed                           1 1.2805e-04 0.0066307
## - Issued.IPC                             1 1.3493e-04 0.0066376
## - gld_request                            1 1.3844e-04 0.0066411
## - Executed.Control.Flow.Instructions      1 1.4849e-04 0.0066512
## - Eligible.Warps.Per.Active.Cycle         1 1.8489e-04 0.0066876
## - L2.Read.Transactions                    1 2.1864e-04 0.0067213
## - Memoryclock                            1 2.6365e-04 0.0067663
##                                     AIC
## - Global.Load.Transactions.Per.Request   -9059.5
## - Bus                                    -9059.5
## - fb_subp0_write_sectors                 -9059.3
## - fb_subp0_read_sectors                  -9059.1
## - fb_subp1_read_sectors                  -9059.0
## - gst_inst_32bit                         -9058.5
## - fb_subp1_write_sectors                 -9058.1
## <none>                                   -9058.0
## - Issued.Load.Store.Instructions         -9057.8
## - Instructions.per.warp                  -9057.4
## - Shared.Memory.Load.Transactions.Per.Request -9057.4
## - L2.Read.Transactions..L1.read.requests. -9057.0
## - L2.Write.Transactions                  -9056.0
## - Instructions.Executed                  -9055.7
## - L2                                    -9055.6
## - inst_issued2                          -9054.6
## - Input.Size                            -9054.1

```

```

## - Issued.Control.Flow.Instructions -9053.2
## - Issue.Slot.Utilization -9053.2
## - Misc.Instructions -9052.7
## - Executed.Load.Store.Instructions -9050.0
## - ECC.Transactions -9049.7
## - inst_issued1 -9048.9
## - Issue.Slots -9048.5
## - Instructions.Issued -9047.4
## - inst_executed -9044.8
## - Issued.IPC -9044.0
## - gld_request -9043.5
## - Executed.Control.Flow.Instructions -9042.4
## - Eligible.Warps.Per.Active.Cycle -9038.1
## - L2.Read.Transactions -9034.2
## - Memoryclock -9029.0
##
## Step: AIC=-9059.51
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Instructions.Executed +
## Instructions.Issued + Issue.Slots + Misc.Instructions + L2.Read.Transactions..L1.read.requests.
## ECC.Transactions + Eligible.Warps.Per.Active.Cycle + fb_subp0_read_sectors +
## fb_subp1_read_sectors + fb_subp0_write_sectors + fb_subp1_write_sectors +
## inst_executed + inst_issued1 + inst_issued2 + gst_inst_32bit +
## gld_request
##
##
## Df Sum of Sq RSS
## - Bus 1 2.9320e-06 0.0065094
## - fb_subp0_write_sectors 1 6.8950e-06 0.0065134
## - fb_subp0_read_sectors 1 7.1170e-06 0.0065136
## - fb_subp1_read_sectors 1 8.3710e-06 0.0065149
## - gst_inst_32bit 1 8.6860e-06 0.0065152
## - Issued.Load.Store.Instructions 1 1.5047e-05 0.0065216
## <none> 0.0065065
## - fb_subp1_write_sectors 1 1.9095e-05 0.0065256
## - Instructions.per.warp 1 1.9906e-05 0.0065264
## - L2.Read.Transactions..L1.read.requests. 1 2.4576e-05 0.0065311
## - L2 1 3.3196e-05 0.0065397
## - Instructions.Executed 1 3.4597e-05 0.0065411
## - L2.Write.Transactions 1 3.4703e-05 0.0065412
## - inst_issued2 1 4.1960e-05 0.0065485
## - Input.Size 1 4.5385e-05 0.0065519
## - Issue.Slot.Utilization 1 5.3144e-05 0.0065597
## - Issued.Control.Flow.Instructions 1 5.4160e-05 0.0065607
## - Misc.Instructions 1 5.8707e-05 0.0065652
## - Executed.Load.Store.Instructions 1 7.9795e-05 0.0065863
## - ECC.Transactions 1 8.4986e-05 0.0065915
## - inst_issued1 1 9.2802e-05 0.0065993
## - Issue.Slots 1 9.3317e-05 0.0065998
## - Instructions.Issued 1 1.0284e-04 0.0066094
## - Shared.Memory.Load.Transactions.Per.Request 1 1.0979e-04 0.0066163

```

```

## - inst_executed          1 1.2423e-04 0.0066307
## - Issued.IPC             1 1.3210e-04 0.0066386
## - gld_request            1 1.4188e-04 0.0066484
## - Executed.Control.Flow.Instructions 1 1.4465e-04 0.0066512
## - Eligible.Warps.Per.Active.Cycle    1 1.8273e-04 0.0066892
## - L2.Read.Transactions    1 2.1619e-04 0.0067227
## - Memoryclock            1 2.7761e-04 0.0067841
##                               AIC
## - Bus                    -9061.2
## - fb_subp0_write_sectors -9060.7
## - fb_subp0_read_sectors  -9060.7
## - fb_subp1_read_sectors  -9060.5
## - gst_inst_32bit         -9060.5
## - Issued.Load.Store.Instructions -9059.7
## <none>                   -9059.5
## - fb_subp1_write_sectors -9059.2
## - Instructions.per.warp   -9059.1
## - L2.Read.Transactions..L1.read.requests. -9058.6
## - L2                     -9057.5
## - Instructions.Executed   -9057.4
## - L2.Write.Transactions   -9057.4
## - inst_issued2           -9056.5
## - Input.Size             -9056.1
## - Issue.Slot.Utilization  -9055.2
## - Issued.Control.Flow.Instructions -9055.0
## - Misc.Instructions       -9054.5
## - Executed.Load.Store.Instructions -9052.0
## - ECC.Transactions        -9051.4
## - inst_issued1           -9050.5
## - Issue.Slots            -9050.4
## - Instructions.Issued     -9049.3
## - Shared.Memory.Load.Transactions.Per.Request -9048.5
## - inst_executed          -9046.8
## - Issued.IPC             -9045.8
## - gld_request            -9044.7
## - Executed.Control.Flow.Instructions -9044.4
## - Eligible.Warps.Per.Active.Cycle    -9039.9
## - L2.Read.Transactions    -9036.0
## - Memoryclock            -9028.9
##
## Step:  AIC=-9061.16
## trainingSet$Duration ~ L2 + Memoryclock + Input.Size + Issued.IPC +
##   Instructions.per.warp + Issue.Slot.Utilization + Shared.Memory.Load.Transactions.Per.Request +
##   L2.Read.Transactions + L2.Write.Transactions + Issued.Control.Flow.Instructions +
##   Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##   Executed.Load.Store.Instructions + Instructions.Executed +
##   Instructions.Issued + Issue.Slots + Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
##   ECC.Transactions + Eligible.Warps.Per.Active.Cycle + fb_subp0_read_sectors +
##   fb_subp1_read_sectors + fb_subp0_write_sectors + fb_subp1_write_sectors +
##   inst_executed + inst_issued1 + inst_issued2 + gst_inst_32bit +
##   gld_request
##
##                               Df Sum of Sq      RSS
## - fb_subp0_write_sectors      1 0.00000569 0.0065151

```

## - fb_subp0_read_sectors	1	0.00000689	0.0065163
## - gst_inst_32bit	1	0.00000774	0.0065172
## - fb_subp1_read_sectors	1	0.00000854	0.0065180
## - Issued.Load.Store.Instructions	1	0.00001359	0.0065230
## <none>			0.0065094
## - fb_subp1_write_sectors	1	0.00001699	0.0065264
## - Instructions.per.warp	1	0.00001857	0.0065280
## - L2.Read.Transactions..L1.read.requests.	1	0.00002301	0.0065325
## - Instructions.Executed	1	0.00003317	0.0065426
## - L2.Write.Transactions	1	0.00003343	0.0065429
## - inst_issued2	1	0.00003917	0.0065486
## - Input.Size	1	0.00004265	0.0065521
## - Issued.Control.Flow.Instructions	1	0.00005148	0.0065609
## - Misc.Instructions	1	0.00005584	0.0065653
## - Issue.Slot.Utilization	1	0.00006133	0.0065708
## - ECC.Transactions	1	0.00008469	0.0065941
## - Issue.Slots	1	0.00009046	0.0065999
## - inst_issued1	1	0.00009069	0.0066001
## - Instructions.Issued	1	0.00009992	0.0066094
## - Shared.Memory.Load.Transactions.Per.Request	1	0.00010688	0.0066163
## - inst_executed	1	0.00012192	0.0066314
## - Executed.Control.Flow.Instructions	1	0.00014328	0.0066527
## - gld_request	1	0.00015742	0.0066669
## - L2.Read.Transactions	1	0.00021497	0.0067244
## - Memoryclock	1	0.00027766	0.0067871
## - L2	1	0.00029193	0.0068014
## - Issued.IPC	1	0.00031616	0.0068256
## - Executed.Load.Store.Instructions	1	0.00036628	0.0068757
## - Eligible.Warps.Per.Active.Cycle	1	0.00105582	0.0075653
##		AIC	
## - fb_subp0_write_sectors	-9062.5		
## - fb_subp0_read_sectors	-9062.3		
## - gst_inst_32bit	-9062.2		
## - fb_subp1_read_sectors	-9062.1		
## - Issued.Load.Store.Instructions	-9061.5		
## <none>	-9061.2		
## - fb_subp1_write_sectors	-9061.1		
## - Instructions.per.warp	-9060.9		
## - L2.Read.Transactions..L1.read.requests.	-9060.4		
## - Instructions.Executed	-9059.2		
## - L2.Write.Transactions	-9059.2		
## - inst_issued2	-9058.5		
## - Input.Size	-9058.1		
## - Issued.Control.Flow.Instructions	-9057.0		
## - Misc.Instructions	-9056.5		
## - Issue.Slot.Utilization	-9055.8		
## - ECC.Transactions	-9053.1		
## - Issue.Slots	-9052.4		
## - inst_issued1	-9052.4		
## - Instructions.Issued	-9051.3		
## - Shared.Memory.Load.Transactions.Per.Request	-9050.5		
## - inst_executed	-9048.7		
## - Executed.Control.Flow.Instructions	-9046.2		
## - gld_request	-9044.5		



```

## - L2.Read.Transactions -9037.8
## - Memoryclock -9030.6
## - L2 -9028.9
## - Issued.IPC -9026.2
## - Executed.Load.Store.Instructions -9020.5
## - Eligible.Warps.Per.Active.Cycle -8945.9
##
## Step: AIC=-9062.48
## trainingSet$Duration ~ L2 + Memoryclock + Input.Size + Issued.IPC +
## Instructions.per.warp + Issue.Slot.Utilization + Shared.Memory.Load.Transactions.Per.Request +
## L2.Read.Transactions + L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Instructions.Executed +
## Instructions.Issued + Issue.Slots + Misc.Instructions + L2.Read.Transactions..L1.read.requests.
## ECC.Transactions + Eligible.Warps.Per.Active.Cycle + fb_subp0_read_sectors +
## fb_subp1_read_sectors + fb_subp1_write_sectors + inst_executed +
## inst_issued1 + inst_issued2 + gst_inst_32bit + gld_request
##
##
## Df Sum of Sq RSS
## - gst_inst_32bit 1 0.00000588 0.0065210
## - fb_subp0_read_sectors 1 0.00000716 0.0065223
## - fb_subp1_read_sectors 1 0.00000838 0.0065235
## - Issued.Load.Store.Instructions 1 0.00001455 0.0065297
## <none> 0.0065151
## - Instructions.per.warp 1 0.00001868 0.0065338
## - L2.Read.Transactions..L1.read.requests. 1 0.00002318 0.0065383
## - L2.Write.Transactions 1 0.00003090 0.0065460
## - Instructions.Executed 1 0.00003204 0.0065472
## - inst_issued2 1 0.00003906 0.0065542
## - fb_subp1_write_sectors 1 0.00004401 0.0065591
## - Input.Size 1 0.00004420 0.0065593
## - Issued.Control.Flow.Instructions 1 0.00005012 0.0065652
## - Misc.Instructions 1 0.00005366 0.0065688
## - Issue.Slot.Utilization 1 0.00005893 0.0065741
## - ECC.Transactions 1 0.00008571 0.0066008
## - Issue.Slots 1 0.00008780 0.0066029
## - inst_issued1 1 0.00008900 0.0066041
## - Instructions.Issued 1 0.00009705 0.0066122
## - Shared.Memory.Load.Transactions.Per.Request 1 0.00011211 0.0066272
## - inst_executed 1 0.00011970 0.0066348
## - Executed.Control.Flow.Instructions 1 0.00014093 0.0066561
## - gld_request 1 0.00015407 0.0066692
## - L2.Read.Transactions 1 0.00021254 0.0067277
## - L2 1 0.00028662 0.0068018
## - Memoryclock 1 0.00028864 0.0068038
## - Issued.IPC 1 0.00031198 0.0068271
## - Executed.Load.Store.Instructions 1 0.00036110 0.0068762
## - Eligible.Warps.Per.Active.Cycle 1 0.00105154 0.0075667
##
## AIC
## - gst_inst_32bit -9063.8
## - fb_subp0_read_sectors -9063.6
## - fb_subp1_read_sectors -9063.5
## - Issued.Load.Store.Instructions -9062.7
## <none> -9062.5

```

```

## - Instructions.per.warp -9062.2
## - L2.Read.Transactions..L1.read.requests. -9061.7
## - L2.Write.Transactions -9060.8
## - Instructions.Executed -9060.7
## - inst_issued2 -9059.8
## - fb_subp1_write_sectors -9059.2
## - Input.Size -9059.2
## - Issued.Control.Flow.Instructions -9058.5
## - Misc.Instructions -9058.1
## - Issue.Slot.Utilization -9057.5
## - ECC.Transactions -9054.3
## - Issue.Slots -9054.0
## - inst_issued1 -9053.9
## - Instructions.Issued -9052.9
## - Shared.Memory.Load.Transactions.Per.Request -9051.2
## - inst_executed -9050.3
## - Executed.Control.Flow.Instructions -9047.8
## - gld_request -9046.2
## - L2.Read.Transactions -9039.4
## - L2 -9030.9
## - Memoryclock -9030.7
## - Issued.IPC -9028.0
## - Executed.Load.Store.Instructions -9022.4
## - Eligible.Warps.Per.Active.Cycle -8947.8
##
## Step: AIC=-9063.78
## trainingSet$Duration ~ L2 + Memoryclock + Input.Size + Issued.IPC +
## Instructions.per.warp + Issue.Slot.Utilization + Shared.Memory.Load.Transactions.Per.Request +
## L2.Read.Transactions + L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Instructions.Executed +
## Instructions.Issued + Issue.Slots + Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
## ECC.Transactions + Eligible.Warps.Per.Active.Cycle + fb_subp0_read_sectors +
## fb_subp1_read_sectors + fb_subp1_write_sectors + inst_executed +
## inst_issued1 + inst_issued2 + gld_request
##
##
## Df Sum of Sq RSS
## - fb_subp0_read_sectors 1 0.00000733 0.0065283
## - fb_subp1_read_sectors 1 0.00000835 0.0065294
## <none> 0.0065210
## - Instructions.per.warp 1 0.00001949 0.0065405
## - L2.Read.Transactions..L1.read.requests. 1 0.00002393 0.0065449
## - L2.Write.Transactions 1 0.00003000 0.0065510
## - Instructions.Executed 1 0.00003315 0.0065542
## - fb_subp1_write_sectors 1 0.00003885 0.0065599
## - inst_issued2 1 0.00004059 0.0065616
## - Issued.Load.Store.Instructions 1 0.00004429 0.0065653
## - Issued.Control.Flow.Instructions 1 0.00005372 0.0065747
## - Misc.Instructions 1 0.00005753 0.0065785
## - Issue.Slot.Utilization 1 0.00006572 0.0065867
## - ECC.Transactions 1 0.00008737 0.0066084
## - inst_issued1 1 0.00008891 0.0066099
## - Issue.Slots 1 0.00009013 0.0066111
## - Instructions.Issued 1 0.00009958 0.0066206

```

```

## - Shared.Memory.Load.Transactions.Per.Request 1 0.00011275 0.0066338
## - Input.Size 1 0.00011373 0.0066347
## - inst_executed 1 0.00012315 0.0066442
## - Executed.Control.Flow.Instructions 1 0.00014473 0.0066657
## - gld_request 1 0.00015243 0.0066734
## - L2.Read.Transactions 1 0.00021645 0.0067375
## - Memoryclock 1 0.00028282 0.0068038
## - L2 1 0.00030278 0.0068238
## - Issued.IPC 1 0.00033395 0.0068550
## - Executed.Load.Store.Instructions 1 0.00039311 0.0069141
## - Eligible.Warps.Per.Active.Cycle 1 0.00113372 0.0076547
## AIC
## - fb_subp0_read_sectors -9064.9
## - fb_subp1_read_sectors -9064.8
## <none> -9063.8
## - Instructions.per.warp -9063.4
## - L2.Read.Transactions..L1.read.requests. -9062.9
## - L2.Write.Transactions -9062.2
## - Instructions.Executed -9061.8
## - fb_subp1_write_sectors -9061.1
## - inst_issued2 -9060.9
## - Issued.Load.Store.Instructions -9060.5
## - Issued.Control.Flow.Instructions -9059.4
## - Misc.Instructions -9058.9
## - Issue.Slot.Utilization -9058.0
## - ECC.Transactions -9055.4
## - inst_issued1 -9055.2
## - Issue.Slots -9055.1
## - Instructions.Issued -9054.0
## - Shared.Memory.Load.Transactions.Per.Request -9052.4
## - Input.Size -9052.3
## - inst_executed -9051.2
## - Executed.Control.Flow.Instructions -9048.7
## - gld_request -9047.8
## - L2.Read.Transactions -9040.3
## - Memoryclock -9032.7
## - L2 -9030.4
## - Issued.IPC -9026.8
## - Executed.Load.Store.Instructions -9020.1
## - Eligible.Warps.Per.Active.Cycle -8940.7
##
## Step: AIC=-9064.9
## trainingSet$Duration ~ L2 + Memoryclock + Input.Size + Issued.IPC +
## Instructions.per.warp + Issue.Slot.Utilization + Shared.Memory.Load.Transactions.Per.Request +
## L2.Read.Transactions + L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Instructions.Executed +
## Instructions.Issued + Issue.Slots + Misc.Instructions + L2.Read.Transactions..L1.read.requests. +
## ECC.Transactions + Eligible.Warps.Per.Active.Cycle + fb_subp1_read_sectors +
## fb_subp1_write_sectors + inst_executed + inst_issued1 + inst_issued2 +
## gld_request
##
## Df Sum of Sq RSS
## <none> 0.0065283

```

## - Instructions.per.warp	1	0.00002104	0.0065494
## - L2.Read.Transactions..L1.read.requests.	1	0.00002374	0.0065521
## - L2.Write.Transactions	1	0.00002937	0.0065577
## - Instructions.Executed	1	0.00003362	0.0065620
## - fb_subp1_write_sectors	1	0.00003982	0.0065682
## - inst_issued2	1	0.00004007	0.0065684
## - Issued.Load.Store.Instructions	1	0.00004564	0.0065740
## - Issued.Control.Flow.Instructions	1	0.00005048	0.0065788
## - Misc.Instructions	1	0.00005310	0.0065814
## - Issue.Slot.Utilization	1	0.00006757	0.0065959
## - ECC.Transactions	1	0.00008044	0.0066088
## - inst_issued1	1	0.00008922	0.0066176
## - Issue.Slots	1	0.00009383	0.0066222
## - Instructions.Issued	1	0.00010343	0.0066318
## - Shared.Memory.Load.Transactions.Per.Request	1	0.00011370	0.0066420
## - Input.Size	1	0.00011515	0.0066435
## - inst_executed	1	0.00012601	0.0066543
## - Executed.Control.Flow.Instructions	1	0.00014958	0.0066779
## - gld_request	1	0.00015559	0.0066839
## - fb_subp1_read_sectors	1	0.00016202	0.0066904
## - L2.Read.Transactions	1	0.00021698	0.0067453
## - Memoryclock	1	0.00028744	0.0068158
## - L2	1	0.00030194	0.0068303
## - Issued.IPC	1	0.00033977	0.0068681
## - Executed.Load.Store.Instructions	1	0.00039308	0.0069214
## - Eligible.Warps.Per.Active.Cycle	1	0.00114324	0.0076716
##		AIC	
## <none>	-9064.9		
## - Instructions.per.warp	-9064.4		
## - L2.Read.Transactions..L1.read.requests.	-9064.1		
## - L2.Write.Transactions	-9063.4		
## - Instructions.Executed	-9062.9		
## - fb_subp1_write_sectors	-9062.2		
## - inst_issued2	-9062.1		
## - Issued.Load.Store.Instructions	-9061.5		
## - Issued.Control.Flow.Instructions	-9060.9		
## - Misc.Instructions	-9060.6		
## - Issue.Slot.Utilization	-9058.9		
## - ECC.Transactions	-9057.3		
## - inst_issued1	-9056.3		
## - Issue.Slots	-9055.8		
## - Instructions.Issued	-9054.6		
## - Shared.Memory.Load.Transactions.Per.Request	-9053.4		
## - Input.Size	-9053.3		
## - inst_executed	-9052.0		
## - Executed.Control.Flow.Instructions	-9049.2		
## - gld_request	-9048.5		
## - fb_subp1_read_sectors	-9047.8		
## - L2.Read.Transactions	-9041.4		
## - Memoryclock	-9033.3		
## - L2	-9031.6		
## - Issued.IPC	-9027.3		
## - Executed.Load.Store.Instructions	-9021.3		
## - Eligible.Warps.Per.Active.Cycle	-8941.0		

```

## Start: AIC=-458.2
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
## Control.Flow.Instructions + Misc.Instructions + Eligible.Warps.Per.Active.Cycle +
## FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
## fb_subp0_write_sectors + fb_subp1_write_sectors + warps_launched +
## inst_executed + inst_issued1 + inst_issued2 + gld_inst_32bit +
## gst_inst_32bit + Grid.X + Block.X
##
##
## Step: AIC=-458.2
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
## Control.Flow.Instructions + Misc.Instructions + Eligible.Warps.Per.Active.Cycle +
## FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
## fb_subp0_write_sectors + fb_subp1_write_sectors + warps_launched +
## inst_executed + inst_issued1 + inst_issued2 + gld_inst_32bit +
## Grid.X + Block.X
##
##
## Step: AIC=-458.2
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
## Control.Flow.Instructions + Misc.Instructions + Eligible.Warps.Per.Active.Cycle +

```

```

##      FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
##      fb_subp0_write_sectors + fb_subp1_write_sectors + warps_launched +
##      inst_executed + inst_issued1 + inst_issued2 + Grid.X + Block.X
##
##
## Step:  AIC=-458.2
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##      Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##      Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
##      Global.Store.Transactions + Device.Memory.Read.Transactions +
##      Device.Memory.Write.Transactions + L2.Read.Transactions +
##      L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
##      Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##      Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
##      Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
##      Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
##      Control.Flow.Instructions + Misc.Instructions + Eligible.Warps.Per.Active.Cycle +
##      FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
##      fb_subp0_write_sectors + fb_subp1_write_sectors + warps_launched +
##      inst_executed + inst_issued1 + Grid.X + Block.X
##
##
## Step:  AIC=-458.2
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##      Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##      Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
##      Global.Store.Transactions + Device.Memory.Read.Transactions +
##      Device.Memory.Write.Transactions + L2.Read.Transactions +
##      L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
##      Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##      Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
##      Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
##      Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
##      Control.Flow.Instructions + Misc.Instructions + Eligible.Warps.Per.Active.Cycle +
##      FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
##      fb_subp0_write_sectors + fb_subp1_write_sectors + warps_launched +
##      inst_executed + Grid.X + Block.X
##
##
## Step:  AIC=-458.2
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##      Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##      Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
##      Global.Store.Transactions + Device.Memory.Read.Transactions +
##      Device.Memory.Write.Transactions + L2.Read.Transactions +
##      L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
##      Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##      Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +

```

```

## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
## Control.Flow.Instructions + Misc.Instructions + Eligible.Warps.Per.Active.Cycle +
## FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
## fb_subp0_write_sectors + fb_subp1_write_sectors + warps_launched +
## Grid.X + Block.X
##
##
## Step: AIC=-458.2
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
## Control.Flow.Instructions + Misc.Instructions + Eligible.Warps.Per.Active.Cycle +
## FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
## fb_subp0_write_sectors + fb_subp1_write_sectors + Grid.X +
## Block.X
##
##
## Step: AIC=-458.2
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
## Misc.Instructions + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + Grid.X + Block.X
##
##
## Step: AIC=-458.2
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +

```

```

## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + Misc.Instructions + Eligible.Warps.Per.Active.Cycle +
## FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
## fb_subp0_write_sectors + fb_subp1_write_sectors + Grid.X +
## Block.X
##
##
## Step: AIC=-458.2
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Misc.Instructions + Eligible.Warps.Per.Active.Cycle +
## FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
## fb_subp0_write_sectors + fb_subp1_write_sectors + Grid.X +
## Block.X
##
##
## Step: AIC=-458.2
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Misc.Instructions + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + Grid.X + Block.X
##
##
## Step: AIC=-458.2
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +

```



```

## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Instructions.Executed + Misc.Instructions + Eligible.Warps.Per.Active.Cycle +
## FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
## fb_subp0_write_sectors + fb_subp1_write_sectors + Grid.X +
## Block.X
##
##
## Step: AIC=-458.2
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Instructions.Executed +
## Misc.Instructions + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + Grid.X + Block.X
##
##
## Step: AIC=-458.2
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
## Issued.Load.Store.Instructions + Executed.Load.Store.Instructions +
## Instructions.Executed + Misc.Instructions + Eligible.Warps.Per.Active.Cycle +
## FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
## fb_subp0_write_sectors + fb_subp1_write_sectors + Grid.X +
## Block.X
##
##
## Step: AIC=-458.2
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Global.Load.Transactions + Global.Store.Transactions +
## Device.Memory.Read.Transactions + Device.Memory.Write.Transactions +
## L2.Read.Transactions + L2.Write.Transactions + Global.Hit.Rate +
## Issued.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Instructions.Executed +
## Misc.Instructions + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + Grid.X + Block.X
##
##

```

```

## Step: AIC=-458.2
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Shared.Load.Transactions +
## Global.Load.Transactions + Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
## Issued.Load.Store.Instructions + Executed.Load.Store.Instructions +
## Instructions.Executed + Misc.Instructions + Eligible.Warps.Per.Active.Cycle +
## FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
## fb_subp0_write_sectors + fb_subp1_write_sectors + Grid.X +
## Block.X
##
##
## Step: AIC=-458.2
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Global.Load.Transactions.Per.Request +
## Shared.Load.Transactions + Global.Load.Transactions + Global.Store.Transactions +
## Device.Memory.Read.Transactions + Device.Memory.Write.Transactions +
## L2.Read.Transactions + L2.Write.Transactions + Global.Hit.Rate +
## Issued.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Instructions.Executed +
## Misc.Instructions + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + Grid.X + Block.X
##
##
## Step: AIC=-458.2
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Global.Load.Transactions.Per.Request + Shared.Load.Transactions +
## Global.Load.Transactions + Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
## Issued.Load.Store.Instructions + Executed.Load.Store.Instructions +
## Instructions.Executed + Misc.Instructions + Eligible.Warps.Per.Active.Cycle +
## FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
## fb_subp0_write_sectors + fb_subp1_write_sectors + Grid.X +
## Block.X
##
##
## Step: AIC=-458.2
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Global.Load.Transactions.Per.Request + Shared.Load.Transactions +
## Global.Load.Transactions + Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
## Issued.Load.Store.Instructions + Executed.Load.Store.Instructions +
## Instructions.Executed + Misc.Instructions + Eligible.Warps.Per.Active.Cycle +
## FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
## fb_subp0_write_sectors + fb_subp1_write_sectors + Grid.X +

```

```

##      Block.X
##
##
##          Df Sum of Sq    RSS      AIC
## - L2.Write.Transactions      1  0.00006 1.5289 -460.19
## - FLOP.Efficiency.Peak.Single. 1  0.00049 1.5293 -460.16
## - fb_subp0_read_sectors      1  0.00165 1.5305 -460.07
## - Shared.Load.Transactions    1  0.00201 1.5309 -460.04
## - Issue.Slot.Utilization      1  0.00378 1.5326 -459.91
## - Issued.IPC                  1  0.00443 1.5333 -459.86
## - Grid.X                      1  0.00527 1.5341 -459.79
## - Global.Store.Transactions    1  0.00610 1.5349 -459.73
## - fb_subp1_read_sectors      1  0.00887 1.5377 -459.51
## - fb_subp0_write_sectors      1  0.00935 1.5382 -459.47
## - L2                          1  0.01004 1.5389 -459.42
## - Bus                         1  0.01140 1.5402 -459.32
## - Block.X                     1  0.01245 1.5413 -459.23
## <none>                        1  0.01245 1.5288 -458.20
## - Misc.Instructions           1  0.02655 1.5554 -458.15
## - Instructions.Executed       1  0.02675 1.5556 -458.14
## - Instructions.per.warp       1  0.02784 1.5567 -458.05
## - Input.Size                  1  0.02786 1.5567 -458.05
## - fb_subp1_write_sectors      1  0.03360 1.5624 -457.61
## - Global.Load.Transactions.Per.Request 1  0.04426 1.5731 -456.80
## - Device.Memory.Read.Transactions 1  0.04484 1.5737 -456.76
## - Global.Hit.Rate             1  0.05165 1.5805 -456.25
## - Executed.Load.Store.Instructions 1  0.05517 1.5840 -455.98
## - Device.Memory.Write.Transactions 1  0.05623 1.5851 -455.90
## - Issued.Load.Store.Instructions 1  0.06088 1.5897 -455.55
## - Issued.Control.Flow.Instructions 1  0.06607 1.5949 -455.16
## - Memoryclock                 1  0.07651 1.6054 -454.39
## - Global.Load.Transactions    1  0.10713 1.6360 -452.14
## - Eligible.Warps.Per.Active.Cycle 1  0.20332 1.7322 -445.34
## - L2.Read.Transactions        1  0.35438 1.8832 -435.39
##
## Step:  AIC=-460.19
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Global.Load.Transactions.Per.Request + Shared.Load.Transactions +
##      Global.Load.Transactions + Global.Store.Transactions + Device.Memory.Read.Transactions +
##      Device.Memory.Write.Transactions + L2.Read.Transactions +
##      Global.Hit.Rate + Issued.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##      Executed.Load.Store.Instructions + Instructions.Executed +
##      Misc.Instructions + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##      fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##      fb_subp1_write_sectors + Grid.X + Block.X
##
##
##          Df Sum of Sq    RSS      AIC
## - FLOP.Efficiency.Peak.Single. 1  0.00050 1.5294 -462.16
## - fb_subp0_read_sectors      1  0.00166 1.5306 -462.07
## - Shared.Load.Transactions    1  0.00202 1.5309 -462.04
## - Issue.Slot.Utilization      1  0.00379 1.5327 -461.90
## - Issued.IPC                  1  0.00444 1.5333 -461.85
## - Grid.X                      1  0.00522 1.5341 -461.79
## - fb_subp1_read_sectors      1  0.00892 1.5378 -461.50

```

```

## - fb_subp0_write_sectors      1  0.00937 1.5383 -461.47
## - L2                          1  0.01027 1.5392 -461.40
## - Bus                        1  0.01163 1.5405 -461.29
## - Block.X                    1  0.01296 1.5419 -461.19
## <none>                        1  1.5289 -460.19
## - Misc.Instructions          1  0.02649 1.5554 -460.15
## - Instructions.Executed       1  0.02669 1.5556 -460.14
## - Instructions.per.warp       1  0.02778 1.5567 -460.05
## - Input.Size                 1  0.02780 1.5567 -460.05
## - Global.Store.Transactions   1  0.03159 1.5605 -459.76
## - fb_subp1_write_sectors      1  0.03379 1.5627 -459.59
## - Global.Load.Transactions.Per.Request 1  0.04419 1.5731 -458.80
## - Device.Memory.Read.Transactions 1  0.04495 1.5738 -458.75
## - Global.Hit.Rate            1  0.05177 1.5807 -458.23
## - Executed.Load.Store.Instructions 1  0.05511 1.5840 -457.98
## - Device.Memory.Write.Transactions 1  0.05639 1.5853 -457.88
## - Issued.Load.Store.Instructions 1  0.06083 1.5897 -457.55
## - Issued.Control.Flow.Instructions 1  0.06601 1.5949 -457.16
## - Memoryclock               1  0.07709 1.6060 -456.34
## - Global.Load.Transactions   1  0.10749 1.6364 -454.11
## - Eligible.Warps.Per.Active.Cycle 1  0.20327 1.7322 -447.34
## - L2.Read.Transactions       1  0.35439 1.8833 -437.39
##
## Step: AIC=-462.16
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Input.Size +
##   Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##   Global.Load.Transactions.Per.Request + Shared.Load.Transactions +
##   Global.Load.Transactions + Global.Store.Transactions + Device.Memory.Read.Transactions +
##   Device.Memory.Write.Transactions + L2.Read.Transactions +
##   Global.Hit.Rate + Issued.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##   Executed.Load.Store.Instructions + Instructions.Executed +
##   Misc.Instructions + Eligible.Warps.Per.Active.Cycle + fb_subp0_read_sectors +
##   fb_subp1_read_sectors + fb_subp0_write_sectors + fb_subp1_write_sectors +
##   Grid.X + Block.X
##
##
## Df Sum of Sq  RSS    AIC
## - fb_subp0_read_sectors      1  0.00155 1.5310 -464.03
## - Shared.Load.Transactions    1  0.00196 1.5314 -464.00
## - Issue.Slot.Utilization      1  0.00427 1.5337 -463.82
## - Issued.IPC                 1  0.00493 1.5343 -463.77
## - Grid.X                    1  0.00662 1.5360 -463.64
## - fb_subp1_read_sectors      1  0.00854 1.5379 -463.49
## - fb_subp0_write_sectors      1  0.00923 1.5386 -463.44
## - L2                        1  0.00987 1.5393 -463.39
## - Bus                      1  0.01141 1.5408 -463.27
## - Block.X                  1  0.01263 1.5420 -463.18
## <none>                      1  1.5294 -462.16
## - Misc.Instructions          1  0.02912 1.5585 -461.91
## - Instructions.per.warp       1  0.02924 1.5586 -461.90
## - Input.Size                 1  0.02930 1.5587 -461.90
## - Instructions.Executed       1  0.02933 1.5587 -461.89
## - fb_subp1_write_sectors      1  0.03331 1.5627 -461.59
## - Global.Store.Transactions   1  0.03469 1.5641 -461.49
## - Global.Load.Transactions.Per.Request 1  0.04369 1.5731 -460.80

```

```

## - Device.Memory.Read.Transactions      1  0.04451 1.5739 -460.74
## - Global.Hit.Rate                      1  0.05127 1.5807 -460.23
## - Device.Memory.Write.Transactions     1  0.05593 1.5853 -459.88
## - Executed.Load.Store.Instructions     1  0.05809 1.5875 -459.72
## - Issued.Load.Store.Instructions       1  0.06563 1.5950 -459.16
## - Issued.Control.Flow.Instructions     1  0.06698 1.5964 -459.05
## - Memoryclock                         1  0.08238 1.6118 -457.91
## - Global.Load.Transactions             1  0.11119 1.6406 -455.80
## - Eligible.Warps.Per.Active.Cycle     1  0.20790 1.7373 -448.99
## - L2.Read.Transactions                 1  0.36148 1.8909 -438.91
##
## Step: AIC=-464.03
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Input.Size +
##   Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##   Global.Load.Transactions.Per.Request + Shared.Load.Transactions +
##   Global.Load.Transactions + Global.Store.Transactions + Device.Memory.Read.Transactions +
##   Device.Memory.Write.Transactions + L2.Read.Transactions +
##   Global.Hit.Rate + Issued.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##   Executed.Load.Store.Instructions + Instructions.Executed +
##   Misc.Instructions + Eligible.Warps.Per.Active.Cycle + fb_subp1_read_sectors +
##   fb_subp0_write_sectors + fb_subp1_write_sectors + Grid.X +
##   Block.X
##
##
##              Df Sum of Sq    RSS    AIC
## - Shared.Load.Transactions      1  0.00112 1.5321 -465.95
## - Issue.Slot.Utilization        1  0.00395 1.5349 -465.73
## - Issued.IPC                   1  0.00458 1.5355 -465.68
## - Grid.X                       1  0.00648 1.5374 -465.53
## - fb_subp1_read_sectors        1  0.00855 1.5395 -465.37
## - fb_subp0_write_sectors       1  0.01073 1.5417 -465.20
## - Block.X                     1  0.01149 1.5424 -465.14
## - L2                          1  0.01350 1.5445 -464.99
## - Bus                         1  0.01473 1.5457 -464.90
## <none>                        1.5310 -464.03
## - Misc.Instructions            1  0.02757 1.5585 -463.91
## - Instructions.Executed        1  0.02778 1.5587 -463.89
## - Instructions.per.warp        1  0.02916 1.5601 -463.79
## - Input.Size                   1  0.02924 1.5602 -463.78
## - Global.Store.Transactions    1  0.03403 1.5650 -463.42
## - fb_subp1_write_sectors      1  0.03515 1.5661 -463.33
## - Global.Load.Transactions.Per.Request 1  0.04689 1.5778 -462.44
## - Global.Hit.Rate             1  0.05453 1.5855 -461.87
## - Executed.Load.Store.Instructions 1  0.05841 1.5894 -461.58
## - Issued.Load.Store.Instructions 1  0.06465 1.5956 -461.11
## - Issued.Control.Flow.Instructions 1  0.06698 1.5979 -460.94
## - Device.Memory.Write.Transactions 1  0.08995 1.6209 -459.24
## - Memoryclock                 1  0.09357 1.6245 -458.97
## - Global.Load.Transactions     1  0.10979 1.6407 -457.79
## - Eligible.Warps.Per.Active.Cycle 1  0.20682 1.7378 -450.96
## - Device.Memory.Read.Transactions 1  0.24157 1.7725 -448.60
## - L2.Read.Transactions        1  0.40625 1.9372 -438.03
##
## Step: AIC=-465.95
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Input.Size +

```

```

##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Global.Load.Transactions.Per.Request + Global.Load.Transactions +
##      Global.Store.Transactions + Device.Memory.Read.Transactions +
##      Device.Memory.Write.Transactions + L2.Read.Transactions +
##      Global.Hit.Rate + Issued.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##      Executed.Load.Store.Instructions + Instructions.Executed +
##      Misc.Instructions + Eligible.Warps.Per.Active.Cycle + fb_subp1_read_sectors +
##      fb_subp0_write_sectors + fb_subp1_write_sectors + Grid.X +
##      Block.X
##
##
##              Df Sum of Sq    RSS      AIC
## - Issue.Slot.Utilization      1   0.00442 1.5365 -467.60
## - Issued.IPC                  1   0.00509 1.5372 -467.55
## - Grid.X                      1   0.00598 1.5380 -467.48
## - fb_subp1_read_sectors       1   0.00917 1.5413 -467.24
## - fb_subp0_write_sectors      1   0.00961 1.5417 -467.20
## - Block.X                    1   0.01201 1.5441 -467.02
## - L2                         1   0.01300 1.5451 -466.94
## - Bus                        1   0.01425 1.5463 -466.85
## <none>                        1   0.01425 1.5321 -465.95
## - Misc.Instructions           1   0.02726 1.5593 -465.85
## - Instructions.Executed       1   0.02748 1.5595 -465.83
## - Instructions.per.warp       1   0.03146 1.5635 -465.53
## - Input.Size                 1   0.03160 1.5637 -465.52
## - Global.Store.Transactions   1   0.03312 1.5652 -465.40
## - fb_subp1_write_sectors      1   0.03481 1.5669 -465.27
## - Global.Load.Transactions.Per.Request 1 0.04684 1.5789 -464.36
## - Global.Hit.Rate            1   0.05393 1.5860 -463.83
## - Executed.Load.Store.Instructions 1 0.06250 1.5946 -463.19
## - Issued.Load.Store.Instructions 1 0.06767 1.5997 -462.80
## - Issued.Control.Flow.Instructions 1 0.07261 1.6047 -462.44
## - Memoryclock                1   0.09270 1.6248 -460.96
## - Device.Memory.Write.Transactions 1 0.09723 1.6293 -460.63
## - Global.Load.Transactions    1   0.11117 1.6433 -459.61
## - Eligible.Warps.Per.Active.Cycle 1 0.20894 1.7410 -452.73
## - Device.Memory.Read.Transactions 1 0.24264 1.7747 -450.45
## - L2.Read.Transactions        1   0.41089 1.9430 -439.67
##
## Step:  AIC=-467.6
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Input.Size +
##      Issued.IPC + Instructions.per.warp + Global.Load.Transactions.Per.Request +
##      Global.Load.Transactions + Global.Store.Transactions + Device.Memory.Read.Transactions +
##      Device.Memory.Write.Transactions + L2.Read.Transactions +
##      Global.Hit.Rate + Issued.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##      Executed.Load.Store.Instructions + Instructions.Executed +
##      Misc.Instructions + Eligible.Warps.Per.Active.Cycle + fb_subp1_read_sectors +
##      fb_subp0_write_sectors + fb_subp1_write_sectors + Grid.X +
##      Block.X
##
##
##              Df Sum of Sq    RSS      AIC
## - Grid.X                      1   0.00539 1.5419 -469.19
## - Block.X                    1   0.00883 1.5453 -468.92
## - fb_subp1_read_sectors       1   0.00946 1.5460 -468.87
## - fb_subp0_write_sectors      1   0.01041 1.5469 -468.80

```

```

## - L2 1 0.01349 1.5500 -468.56
## - Bus 1 0.01402 1.5505 -468.52
## - Misc.Instructions 1 0.02454 1.5610 -467.72
## - Instructions.Executed 1 0.02471 1.5612 -467.71
## <none> 1.5365 -467.60
## - Global.Store.Transactions 1 0.03088 1.5674 -467.24
## - fb_subp1_write_sectors 1 0.03817 1.5747 -466.68
## - Global.Load.Transactions.Per.Request 1 0.04506 1.5816 -466.16
## - Global.Hit.Rate 1 0.05422 1.5907 -465.48
## - Instructions.per.warp 1 0.07698 1.6135 -463.79
## - Input.Size 1 0.07785 1.6143 -463.72
## - Issued.Load.Store.Instructions 1 0.08142 1.6179 -463.46
## - Executed.Load.Store.Instructions 1 0.08561 1.6221 -463.15
## - Memoryclock 1 0.09137 1.6279 -462.73
## - Device.Memory.Write.Transactions 1 0.10101 1.6375 -462.03
## - Global.Load.Transactions 1 0.11052 1.6470 -461.34
## - Issued.Control.Flow.Instructions 1 0.12051 1.6570 -460.62
## - Eligible.Warps.Per.Active.Cycle 1 0.20514 1.7416 -454.69
## - Issued.IPC 1 0.21547 1.7520 -453.99
## - Device.Memory.Read.Transactions 1 0.24046 1.7770 -452.30
## - L2.Read.Transactions 1 0.41302 1.9495 -441.27
##
## Step: AIC=-469.19
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Input.Size +
## Issued.IPC + Instructions.per.warp + Global.Load.Transactions.Per.Request +
## Global.Load.Transactions + Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## Global.Hit.Rate + Issued.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Instructions.Executed +
## Misc.Instructions + Eligible.Warps.Per.Active.Cycle + fb_subp1_read_sectors +
## fb_subp0_write_sectors + fb_subp1_write_sectors + Block.X
##
## Df Sum of Sq RSS AIC
## - fb_subp0_write_sectors 1 0.00885 1.5507 -470.51
## - Block.X 1 0.01095 1.5528 -470.35
## - fb_subp1_read_sectors 1 0.01262 1.5545 -470.22
## - L2 1 0.01624 1.5581 -469.94
## - Bus 1 0.01707 1.5590 -469.88
## - Misc.Instructions 1 0.02434 1.5662 -469.32
## - Instructions.Executed 1 0.02464 1.5665 -469.30
## <none> 1.5419 -469.19
## - fb_subp1_write_sectors 1 0.04271 1.5846 -467.94
## - Global.Load.Transactions.Per.Request 1 0.05290 1.5948 -467.17
## - Global.Hit.Rate 1 0.05474 1.5966 -467.04
## - Instructions.per.warp 1 0.07281 1.6147 -465.70
## - Input.Size 1 0.07442 1.6163 -465.58
## - Executed.Load.Store.Instructions 1 0.09407 1.6360 -464.14
## - Memoryclock 1 0.09770 1.6396 -463.88
## - Device.Memory.Write.Transactions 1 0.10162 1.6435 -463.59
## - Issued.Control.Flow.Instructions 1 0.11721 1.6591 -462.47
## - Global.Store.Transactions 1 0.11777 1.6597 -462.43
## - Issued.Load.Store.Instructions 1 0.13074 1.6726 -461.50
## - Eligible.Warps.Per.Active.Cycle 1 0.20134 1.7432 -456.58
## - Issued.IPC 1 0.21055 1.7524 -455.96

```

```

## - Device.Memory.Read.Transactions      1  0.26783 1.8097 -452.13
## - Global.Load.Transactions              1  0.34446 1.8863 -447.19
## - L2.Read.Transactions                  1  0.45744 1.9993 -440.27
##
## Step: AIC=-470.51
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Input.Size +
##   Issued.IPC + Instructions.per.warp + Global.Load.Transactions.Per.Request +
##   Global.Load.Transactions + Global.Store.Transactions + Device.Memory.Read.Transactions +
##   Device.Memory.Write.Transactions + L2.Read.Transactions +
##   Global.Hit.Rate + Issued.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##   Executed.Load.Store.Instructions + Instructions.Executed +
##   Misc.Instructions + Eligible.Warps.Per.Active.Cycle + fb_subp1_read_sectors +
##   fb_subp1_write_sectors + Block.X
##
##                                     Df Sum of Sq   RSS    AIC
## - Block.X                          1  0.00944 1.5602 -471.78
## - Misc.Instructions                 1  0.01797 1.5687 -471.14
## - Instructions.Executed              1  0.01824 1.5690 -471.11
## - Bus                               1  0.02515 1.5759 -470.59
## - L2                                1  0.02516 1.5759 -470.59
## <none>                              1  0.02516 1.5507 -470.51
## - fb_subp1_write_sectors            1  0.03398 1.5847 -469.93
## - fb_subp1_read_sectors             1  0.04435 1.5951 -469.15
## - Global.Hit.Rate                   1  0.06198 1.6127 -467.84
## - Global.Load.Transactions.Per.Request 1  0.06698 1.6177 -467.47
## - Instructions.per.warp              1  0.08085 1.6316 -466.46
## - Input.Size                        1  0.08259 1.6333 -466.33
## - Executed.Load.Store.Instructions   1  0.10136 1.6521 -464.97
## - Global.Store.Transactions          1  0.10957 1.6603 -464.38
## - Memoryclock                       1  0.11718 1.6679 -463.84
## - Issued.Control.Flow.Instructions   1  0.12756 1.6783 -463.10
## - Issued.Load.Store.Instructions      1  0.12900 1.6797 -463.00
## - Device.Memory.Write.Transactions    1  0.16886 1.7196 -460.21
## - Eligible.Warps.Per.Active.Cycle    1  0.19490 1.7456 -458.42
## - Issued.IPC                        1  0.20658 1.7573 -457.62
## - Global.Load.Transactions            1  0.34245 1.8932 -448.76
## - Device.Memory.Read.Transactions     1  0.43781 1.9886 -442.91
## - L2.Read.Transactions                1  0.54474 2.0955 -436.68
##
## Step: AIC=-471.78
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Input.Size +
##   Issued.IPC + Instructions.per.warp + Global.Load.Transactions.Per.Request +
##   Global.Load.Transactions + Global.Store.Transactions + Device.Memory.Read.Transactions +
##   Device.Memory.Write.Transactions + L2.Read.Transactions +
##   Global.Hit.Rate + Issued.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##   Executed.Load.Store.Instructions + Instructions.Executed +
##   Misc.Instructions + Eligible.Warps.Per.Active.Cycle + fb_subp1_read_sectors +
##   fb_subp1_write_sectors
##
##                                     Df Sum of Sq   RSS    AIC
## - Misc.Instructions                 1  0.01185 1.5720 -472.88
## - Instructions.Executed              1  0.01209 1.5723 -472.87
## <none>                              1  0.01209 1.5602 -471.78
## - fb_subp1_write_sectors            1  0.03950 1.5997 -470.81

```



```

## - L2 1 0.04044 1.6006 -470.74
## - Bus 1 0.04116 1.6014 -470.69
## - fb_subp1_read_sectors 1 0.04657 1.6067 -470.28
## - Global.Load.Transactions.Per.Request 1 0.07020 1.6304 -468.55
## - Global.Store.Transactions 1 0.10120 1.6614 -466.30
## - Global.Hit.Rate 1 0.10781 1.6680 -465.83
## - Instructions.per.warp 1 0.11078 1.6710 -465.62
## - Input.Size 1 0.11309 1.6733 -465.46
## - Executed.Load.Store.Instructions 1 0.11734 1.6775 -465.15
## - Issued.Load.Store.Instructions 1 0.13274 1.6929 -464.07
## - Memoryclock 1 0.14571 1.7059 -463.16
## - Issued.Control.Flow.Instructions 1 0.15007 1.7103 -462.86
## - Device.Memory.Write.Transactions 1 0.18551 1.7457 -460.41
## - Eligible.Warps.Per.Active.Cycle 1 0.18917 1.7494 -460.16
## - Issued.IPC 1 0.20915 1.7693 -458.81
## - Global.Load.Transactions 1 0.34500 1.9052 -450.01
## - Device.Memory.Read.Transactions 1 0.45632 2.0165 -443.25
## - L2.Read.Transactions 1 0.63244 2.1926 -433.29
##
## Step: AIC=-472.88
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Input.Size +
## Issued.IPC + Instructions.per.warp + Global.Load.Transactions.Per.Request +
## Global.Load.Transactions + Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## Global.Hit.Rate + Issued.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Instructions.Executed +
## Eligible.Warps.Per.Active.Cycle + fb_subp1_read_sectors +
## fb_subp1_write_sectors
##
## Df Sum of Sq RSS AIC
## <none> 1.5720 -472.88
## - Bus 1 0.05083 1.6229 -471.10
## - Instructions.Executed 1 0.05120 1.6232 -471.07
## - L2 1 0.05279 1.6248 -470.95
## - Global.Store.Transactions 1 0.08944 1.6615 -468.30
## - Global.Load.Transactions.Per.Request 1 0.10099 1.6730 -467.47
## - Global.Hit.Rate 1 0.10579 1.6778 -467.13
## - Issued.Load.Store.Instructions 1 0.12091 1.6929 -466.07
## - Instructions.per.warp 1 0.12212 1.6942 -465.98
## - Executed.Load.Store.Instructions 1 0.12421 1.6963 -465.83
## - Input.Size 1 0.12488 1.6969 -465.79
## - fb_subp1_write_sectors 1 0.14359 1.7156 -464.48
## - fb_subp1_read_sectors 1 0.14920 1.7212 -464.09
## - Issued.Control.Flow.Instructions 1 0.15813 1.7302 -463.48
## - Memoryclock 1 0.16197 1.7340 -463.21
## - Eligible.Warps.Per.Active.Cycle 1 0.19963 1.7717 -460.66
## - Issued.IPC 1 0.22937 1.8014 -458.68
## - Global.Load.Transactions 1 0.33398 1.9060 -451.96
## - Device.Memory.Write.Transactions 1 0.42316 1.9952 -446.52
## - Device.Memory.Read.Transactions 1 0.85523 2.4273 -423.19
## - L2.Read.Transactions 1 0.93402 2.5061 -419.39
## Start: AIC=-470.79
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +

```

```

## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
## Control.Flow.Instructions + Misc.Instructions + Eligible.Warps.Per.Active.Cycle +
## FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
## fb_subp0_write_sectors + fb_subp1_write_sectors + warps_launched +
## inst_executed + inst_issued1 + inst_issued2 + gld_inst_32bit +
## gst_inst_32bit + Grid.X + Block.X
##
##
## Step: AIC=-470.79
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
## Control.Flow.Instructions + Misc.Instructions + Eligible.Warps.Per.Active.Cycle +
## FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
## fb_subp0_write_sectors + fb_subp1_write_sectors + warps_launched +
## inst_executed + inst_issued1 + inst_issued2 + gld_inst_32bit +
## Grid.X + Block.X
##
##
## Step: AIC=-470.79
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
## Control.Flow.Instructions + Misc.Instructions + Eligible.Warps.Per.Active.Cycle +
## FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
## fb_subp0_write_sectors + fb_subp1_write_sectors + warps_launched +
## inst_executed + inst_issued1 + inst_issued2 + Grid.X + Block.X

```

```

##
##
## Step: AIC=-470.79
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
## Control.Flow.Instructions + Misc.Instructions + Eligible.Warps.Per.Active.Cycle +
## FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
## fb_subp0_write_sectors + fb_subp1_write_sectors + warps_launched +
## inst_executed + inst_issued1 + Grid.X + Block.X
##
##
## Step: AIC=-470.79
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
## Control.Flow.Instructions + Misc.Instructions + Eligible.Warps.Per.Active.Cycle +
## FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
## fb_subp0_write_sectors + fb_subp1_write_sectors + warps_launched +
## inst_executed + Grid.X + Block.X
##
##
## Step: AIC=-470.79
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
## Control.Flow.Instructions + Misc.Instructions + Eligible.Warps.Per.Active.Cycle +

```

```

##      FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
##      fb_subp0_write_sectors + fb_subp1_write_sectors + warps_launched +
##      Grid.X + Block.X
##
##
## Step:  AIC=-470.79
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##      Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##      Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
##      Global.Store.Transactions + Device.Memory.Read.Transactions +
##      Device.Memory.Write.Transactions + L2.Read.Transactions +
##      L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
##      Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##      Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
##      Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
##      Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
##      Control.Flow.Instructions + Misc.Instructions + Eligible.Warps.Per.Active.Cycle +
##      FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
##      fb_subp0_write_sectors + fb_subp1_write_sectors + Grid.X +
##      Block.X
##
##
## Step:  AIC=-470.79
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##      Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##      Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
##      Global.Store.Transactions + Device.Memory.Read.Transactions +
##      Device.Memory.Write.Transactions + L2.Read.Transactions +
##      L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
##      Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##      Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
##      Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
##      Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
##      Misc.Instructions + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##      fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##      fb_subp1_write_sectors + Grid.X + Block.X
##
##
## Step:  AIC=-470.79
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##      Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##      Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
##      Global.Store.Transactions + Device.Memory.Read.Transactions +
##      Device.Memory.Write.Transactions + L2.Read.Transactions +
##      L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
##      Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##      Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
##      Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +

```

```

##      Instructions.Issued + Issue.Slots + Misc.Instructions + Eligible.Warps.Per.Active.Cycle +
##      FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
##      fb_subp0_write_sectors + fb_subp1_write_sectors + Grid.X +
##      Block.X
##
##
## Step:  AIC=-470.79
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##      Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##      Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
##      Global.Store.Transactions + Device.Memory.Read.Transactions +
##      Device.Memory.Write.Transactions + L2.Read.Transactions +
##      L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
##      Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##      Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
##      Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
##      Instructions.Issued + Misc.Instructions + Eligible.Warps.Per.Active.Cycle +
##      FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
##      fb_subp0_write_sectors + fb_subp1_write_sectors + Grid.X +
##      Block.X
##
##
## Step:  AIC=-470.79
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##      Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##      Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
##      Global.Store.Transactions + Device.Memory.Read.Transactions +
##      Device.Memory.Write.Transactions + L2.Read.Transactions +
##      L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
##      Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##      Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
##      Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
##      Misc.Instructions + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##      fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##      fb_subp1_write_sectors + Grid.X + Block.X
##
##
## Step:  AIC=-470.79
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##      Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##      Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
##      Global.Store.Transactions + Device.Memory.Read.Transactions +
##      Device.Memory.Write.Transactions + L2.Read.Transactions +
##      L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
##      Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##      Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
##      Instructions.Executed + Misc.Instructions + Eligible.Warps.Per.Active.Cycle +
##      FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +

```

```

##      fb_subp0_write_sectors + fb_subp1_write_sectors + Grid.X +
##      Block.X
##
##
## Step:  AIC=-470.79
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##      Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##      Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
##      Global.Store.Transactions + Device.Memory.Read.Transactions +
##      Device.Memory.Write.Transactions + L2.Read.Transactions +
##      L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
##      Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##      Executed.Load.Store.Instructions + Instructions.Executed +
##      Misc.Instructions + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##      fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##      fb_subp1_write_sectors + Grid.X + Block.X
##
##
## Step:  AIC=-470.79
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##      Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##      Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
##      Global.Store.Transactions + Device.Memory.Read.Transactions +
##      Device.Memory.Write.Transactions + L2.Read.Transactions +
##      L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
##      Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##      Instructions.Executed + Misc.Instructions + Eligible.Warps.Per.Active.Cycle +
##      FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
##      fb_subp0_write_sectors + fb_subp1_write_sectors + Grid.X +
##      Block.X
##
##
## Step:  AIC=-470.79
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##      Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##      Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
##      Global.Store.Transactions + Device.Memory.Read.Transactions +
##      Device.Memory.Write.Transactions + L2.Read.Transactions +
##      L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
##      Issued.Load.Store.Instructions + Instructions.Executed +
##      Misc.Instructions + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##      fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##      fb_subp1_write_sectors + Grid.X + Block.X
##
##
## Step:  AIC=-470.79
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +

```

```

## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Global.Load.Transactions + Global.Store.Transactions +
## Device.Memory.Read.Transactions + Device.Memory.Write.Transactions +
## L2.Read.Transactions + L2.Write.Transactions + Global.Hit.Rate +
## Issued.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Instructions.Executed + Misc.Instructions + Eligible.Warps.Per.Active.Cycle +
## FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
## fb_subp0_write_sectors + fb_subp1_write_sectors + Grid.X +
## Block.X
##
##
## Step: AIC=-470.79
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Store.Transactions.Per.Request + Shared.Load.Transactions +
## Global.Load.Transactions + Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
## Issued.Load.Store.Instructions + Instructions.Executed +
## Misc.Instructions + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + Grid.X + Block.X
##
##
## Step: AIC=-470.79
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Global.Load.Transactions + Global.Store.Transactions +
## Device.Memory.Read.Transactions + Device.Memory.Write.Transactions +
## L2.Read.Transactions + L2.Write.Transactions + Global.Hit.Rate +
## Issued.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Instructions.Executed + Misc.Instructions + Eligible.Warps.Per.Active.Cycle +
## FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
## fb_subp0_write_sectors + fb_subp1_write_sectors + Grid.X +
## Block.X
##
##
## Step: AIC=-470.79
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Global.Store.Transactions.Per.Request + Shared.Load.Transactions +
## Global.Load.Transactions + Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
## Issued.Load.Store.Instructions + Instructions.Executed +
## Misc.Instructions + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + Grid.X + Block.X
##
##
## Step: AIC=-470.79

```

```

## trainingSet$Duration ~ L2 + Bus + Memoryclock + Input.Size +
##   Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##   Global.Store.Transactions.Per.Request + Shared.Load.Transactions +
##   Global.Load.Transactions + Global.Store.Transactions + Device.Memory.Read.Transactions +
##   Device.Memory.Write.Transactions + L2.Read.Transactions +
##   L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
##   Issued.Load.Store.Instructions + Instructions.Executed +
##   Misc.Instructions + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##   fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##   fb_subp1_write_sectors + Grid.X + Block.X
##
##
##           Df Sum of Sq   RSS   AIC
## - fb_subp0_read_sectors      1  0.00022 19.276 -472.79
## - Block.X                     1  0.00083 19.277 -472.78
## - Global.Store.Transactions    1  0.00133 19.277 -472.78
## - L2                          1  0.00240 19.278 -472.76
## - Global.Hit.Rate             1  0.00317 19.279 -472.76
## - Shared.Load.Transactions     1  0.00535 19.281 -472.73
## - Instructions.per.warp        1  0.00613 19.282 -472.72
## - Input.Size                  1  0.00742 19.283 -472.71
## - Memoryclock                 1  0.01804 19.294 -472.59
## - Device.Memory.Read.Transactions 1  0.01992 19.296 -472.57
## - fb_subp1_read_sectors       1  0.02039 19.296 -472.56
## - L2.Write.Transactions        1  0.05264 19.328 -472.20
## - Global.Store.Transactions.Per.Request 1  0.06582 19.342 -472.05
## - Bus                         1  0.09013 19.366 -471.77
## - L2.Read.Transactions         1  0.09118 19.367 -471.76
## - Issued.Control.Flow.Instructions 1  0.11016 19.386 -471.55
## <none>                        19.276 -470.79
## - fb_subp0_write_sectors      1  0.20898 19.485 -470.44
## - fb_subp1_write_sectors      1  0.22528 19.501 -470.26
## - Eligible.Warps.Per.Active.Cycle 1  0.23516 19.511 -470.15
## - Instructions.Executed        1  0.32343 19.599 -469.16
## - Misc.Instructions            1  0.32377 19.599 -469.16
## - Grid.X                      1  0.53358 19.809 -466.84
## - Global.Load.Transactions     1  0.58630 19.862 -466.26
## - Issue.Slot.Utilization       1  0.61557 19.891 -465.94
## - Issued.Load.Store.Instructions 1  0.61845 19.894 -465.91
## - Issued.IPC                  1  0.63273 19.909 -465.75
## - Device.Memory.Write.Transactions 1  0.63925 19.915 -465.68
## - FLOP.Efficiency.Peak.Single. 1  1.67853 20.954 -454.59
##
## Step:  AIC=-472.79
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Input.Size +
##   Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##   Global.Store.Transactions.Per.Request + Shared.Load.Transactions +
##   Global.Load.Transactions + Global.Store.Transactions + Device.Memory.Read.Transactions +
##   Device.Memory.Write.Transactions + L2.Read.Transactions +
##   L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
##   Issued.Load.Store.Instructions + Instructions.Executed +
##   Misc.Instructions + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##   fb_subp1_read_sectors + fb_subp0_write_sectors + fb_subp1_write_sectors +
##   Grid.X + Block.X
##

```



```

##                                Df Sum of Sq  RSS    AIC
## - Block.X                     1   0.00079 19.277 -474.78
## - Global.Store.Transactions    1   0.00135 19.277 -474.77
## - L2                           1   0.00228 19.278 -474.76
## - Global.Hit.Rate              1   0.00319 19.279 -474.75
## - Shared.Load.Transactions     1   0.00542 19.281 -474.73
## - Instructions.per.warp        1   0.00596 19.282 -474.72
## - Input.Size                   1   0.00724 19.283 -474.71
## - Memoryclock                  1   0.01782 19.294 -474.59
## - fb_subp1_read_sectors        1   0.02518 19.301 -474.50
## - L2.Write.Transactions         1   0.05284 19.329 -474.19
## - Device.Memory.Read.Transactions 1   0.06538 19.341 -474.05
## - Global.Store.Transactions.Per.Request 1   0.06604 19.342 -474.04
## - L2.Read.Transactions         1   0.09102 19.367 -473.76
## - Bus                          1   0.09215 19.368 -473.75
## - Issued.Control.Flow.Instructions 1   0.11040 19.386 -473.54
## <none>                          19.276 -472.79
## - fb_subp0_write_sectors        1   0.20933 19.485 -472.43
## - fb_subp1_write_sectors        1   0.22653 19.503 -472.24
## - Eligible.Warps.Per.Active.Cycle 1   0.23530 19.511 -472.14
## - Instructions.Executed         1   0.32543 19.601 -471.14
## - Misc.Instructions             1   0.32574 19.602 -471.14
## - Grid.X                       1   0.53471 19.811 -468.82
## - Global.Load.Transactions       1   0.58682 19.863 -468.25
## - Issued.Load.Store.Instructions 1   0.61907 19.895 -467.90
## - Issue.Slot.Utilization         1   0.61969 19.896 -467.89
## - Issued.IPC                   1   0.63714 19.913 -467.70
## - Device.Memory.Write.Transactions 1   0.64911 19.925 -467.57
## - FLOP.Efficiency.Peak.Single.   1   1.69182 20.968 -456.45
##
## Step:  AIC=-474.78
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Input.Size +
##   Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##   Global.Store.Transactions.Per.Request + Shared.Load.Transactions +
##   Global.Load.Transactions + Global.Store.Transactions + Device.Memory.Read.Transactions +
##   Device.Memory.Write.Transactions + L2.Read.Transactions +
##   L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
##   Issued.Load.Store.Instructions + Instructions.Executed +
##   Misc.Instructions + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##   fb_subp1_read_sectors + fb_subp0_write_sectors + fb_subp1_write_sectors +
##   Grid.X
##
##                                Df Sum of Sq  RSS    AIC
## - Global.Store.Transactions    1   0.00146 19.278 -476.76
## - Global.Hit.Rate              1   0.00245 19.279 -476.75
## - L2                           1   0.00323 19.280 -476.74
## - Shared.Load.Transactions     1   0.00530 19.282 -476.72
## - Instructions.per.warp        1   0.00598 19.283 -476.71
## - Input.Size                   1   0.00724 19.284 -476.70
## - Memoryclock                  1   0.02080 19.298 -476.54
## - fb_subp1_read_sectors        1   0.02723 19.304 -476.47
## - L2.Write.Transactions         1   0.05284 19.330 -476.18
## - Device.Memory.Read.Transactions 1   0.06869 19.346 -476.00
## - Bus                          1   0.09380 19.371 -475.72

```

```

## - L2.Read.Transactions          1  0.10786 19.385 -475.56
## - Issued.Control.Flow.Instructions 1  0.11124 19.388 -475.53
## <none>                          19.277 -474.78
## - Global.Store.Transactions.Per.Request 1  0.18992 19.467 -474.64
## - fb_subp0_write_sectors        1  0.21189 19.489 -474.40
## - fb_subp1_write_sectors        1  0.22895 19.506 -474.21
## - Eligible.Warps.Per.Active.Cycle 1  0.24045 19.517 -474.08
## - Instructions.Executed          1  0.33112 19.608 -473.07
## - Misc.Instructions              1  0.33143 19.608 -473.06
## - Grid.X                        1  0.56643 19.843 -470.47
## - Global.Load.Transactions       1  0.58840 19.865 -470.22
## - Issued.Load.Store.Instructions 1  0.62159 19.898 -469.86
## - Device.Memory.Write.Transactions 1  0.65588 19.933 -469.49
## - Issue.Slot.Utilization         1  0.66137 19.938 -469.43
## - Issued.IPC                    1  0.67929 19.956 -469.23
## - FLOP.Efficiency.Peak.Single.   1  1.71585 20.993 -458.19
##
## Step: AIC=-476.76
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Input.Size +
##   Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##   Global.Store.Transactions.Per.Request + Shared.Load.Transactions +
##   Global.Load.Transactions + Device.Memory.Read.Transactions +
##   Device.Memory.Write.Transactions + L2.Read.Transactions +
##   L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
##   Issued.Load.Store.Instructions + Instructions.Executed +
##   Misc.Instructions + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##   fb_subp1_read_sectors + fb_subp0_write_sectors + fb_subp1_write_sectors +
##   Grid.X
##
##
##              Df Sum of Sq  RSS    AIC
## - L2          1  0.00272 19.281 -478.73
## - Global.Hit.Rate 1  0.00305 19.281 -478.73
## - Shared.Load.Transactions 1  0.00553 19.284 -478.70
## - Instructions.per.warp 1  0.00651 19.285 -478.69
## - Input.Size 1  0.00783 19.286 -478.67
## - Memoryclock 1  0.01972 19.298 -478.54
## - fb_subp1_read_sectors 1  0.02590 19.304 -478.47
## - Device.Memory.Read.Transactions 1  0.06852 19.347 -477.99
## - Bus         1  0.09923 19.377 -477.64
## - L2.Read.Transactions 1  0.10800 19.386 -477.55
## - Issued.Control.Flow.Instructions 1  0.11669 19.395 -477.45
## <none>                          19.278 -476.76
## - Global.Store.Transactions.Per.Request 1  0.20041 19.479 -476.51
## - fb_subp0_write_sectors 1  0.21204 19.490 -476.38
## - fb_subp1_write_sectors 1  0.22890 19.507 -476.19
## - Eligible.Warps.Per.Active.Cycle 1  0.25031 19.529 -475.95
## - Instructions.Executed 1  0.37553 19.654 -474.56
## - Misc.Instructions 1  0.37592 19.654 -474.55
## - L2.Write.Transactions 1  0.47766 19.756 -473.43
## - Grid.X         1  0.61331 19.892 -471.94
## - Global.Load.Transactions 1  0.61381 19.892 -471.93
## - Issued.Load.Store.Instructions 1  0.65638 19.935 -471.46
## - Device.Memory.Write.Transactions 1  0.65862 19.937 -471.44
## - Issue.Slot.Utilization 1  0.66090 19.939 -471.41

```

```

## - Issued.IPC          1  0.67878 19.957 -471.22
## - FLOP.Efficiency.Peak.Single. 1  1.71578 20.994 -460.18
##
## Step: AIC=-478.73
## trainingSet$Duration ~ Bus + Memoryclock + Input.Size + Issued.IPC +
##   Instructions.per.warp + Issue.Slot.Utilization + Global.Store.Transactions.Per.Request +
##   Shared.Load.Transactions + Global.Load.Transactions + Device.Memory.Read.Transactions +
##   Device.Memory.Write.Transactions + L2.Read.Transactions +
##   L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
##   Issued.Load.Store.Instructions + Instructions.Executed +
##   Misc.Instructions + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##   fb_subp1_read_sectors + fb_subp0_write_sectors + fb_subp1_write_sectors +
##   Grid.X
##
##
## Df Sum of Sq RSS AIC
## - Shared.Load.Transactions 1  0.00522 19.286 -480.67
## - Instructions.per.warp 1  0.00647 19.287 -480.66
## - Global.Hit.Rate 1  0.00762 19.289 -480.65
## - Input.Size 1  0.00779 19.289 -480.64
## - fb_subp1_read_sectors 1  0.02948 19.310 -480.40
## - Device.Memory.Read.Transactions 1  0.07849 19.359 -479.85
## - Memoryclock 1  0.08727 19.368 -479.75
## - L2.Read.Transactions 1  0.10539 19.386 -479.54
## - Issued.Control.Flow.Instructions 1  0.11718 19.398 -479.41
## <none> 19.281 -478.73
## - Global.Store.Transactions.Per.Request 1  0.20572 19.487 -478.42
## - fb_subp0_write_sectors 1  0.21244 19.493 -478.34
## - fb_subp1_write_sectors 1  0.23254 19.514 -478.12
## - Eligible.Warps.Per.Active.Cycle 1  0.27195 19.553 -477.68
## - Instructions.Executed 1  0.38224 19.663 -476.45
## - Misc.Instructions 1  0.38264 19.664 -476.45
## - L2.Write.Transactions 1  0.48319 19.764 -475.34
## - Grid.X 1  0.61320 19.894 -473.91
## - Global.Load.Transactions 1  0.62708 19.908 -473.76
## - Issue.Slot.Utilization 1  0.65912 19.940 -473.40
## - Issued.Load.Store.Instructions 1  0.67075 19.952 -473.28
## - Device.Memory.Write.Transactions 1  0.67076 19.952 -473.28
## - Issued.IPC 1  0.67707 19.958 -473.21
## - FLOP.Efficiency.Peak.Single. 1  1.75957 21.041 -461.69
## - Bus 1  2.79934 22.080 -451.18
##
## Step: AIC=-480.67
## trainingSet$Duration ~ Bus + Memoryclock + Input.Size + Issued.IPC +
##   Instructions.per.warp + Issue.Slot.Utilization + Global.Store.Transactions.Per.Request +
##   Global.Load.Transactions + Device.Memory.Read.Transactions +
##   Device.Memory.Write.Transactions + L2.Read.Transactions +
##   L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
##   Issued.Load.Store.Instructions + Instructions.Executed +
##   Misc.Instructions + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##   fb_subp1_read_sectors + fb_subp0_write_sectors + fb_subp1_write_sectors +
##   Grid.X
##
##
## Df Sum of Sq RSS AIC
## - Instructions.per.warp 1  0.00654 19.293 -482.60

```

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## - Global.Hit.Rate 1 0.00737 19.294 -482.59
## - Input.Size 1 0.00787 19.294 -482.58
## - fb_subp1_read_sectors 1 0.02971 19.316 -482.34
## - Device.Memory.Read.Transactions 1 0.07960 19.366 -481.78
## - Memoryclock 1 0.08471 19.371 -481.72
## - L2.Read.Transactions 1 0.10339 19.390 -481.51
## - Issued.Control.Flow.Instructions 1 0.11804 19.404 -481.34
## <none> 19.286 -480.67
## - Global.Store.Transactions.Per.Request 1 0.20350 19.490 -480.39
## - fb_subp0_write_sectors 1 0.21595 19.502 -480.25
## - fb_subp1_write_sectors 1 0.23677 19.523 -480.01
## - Eligible.Warps.Per.Active.Cycle 1 0.26767 19.554 -479.67
## - Instructions.Executed 1 0.38142 19.668 -478.40
## - Misc.Instructions 1 0.38183 19.668 -478.40
## - L2.Write.Transactions 1 0.48409 19.770 -477.27
## - Grid.X 1 0.61102 19.897 -475.87
## - Global.Load.Transactions 1 0.63005 19.916 -475.67
## - Issue.Slot.Utilization 1 0.65731 19.944 -475.37
## - Issued.Load.Store.Instructions 1 0.67349 19.960 -475.19
## - Issued.IPC 1 0.67529 19.962 -475.17
## - Device.Memory.Write.Transactions 1 0.67966 19.966 -475.12
## - FLOP.Efficiency.Peak.Single. 1 1.75917 21.045 -463.64
## - Bus 1 2.80799 22.094 -453.04
##
## Step: AIC=-482.6
## trainingSet$Duration ~ Bus + Memoryclock + Input.Size + Issued.IPC +
## Issue.Slot.Utilization + Global.Store.Transactions.Per.Request +
## Global.Load.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
## Issued.Load.Store.Instructions + Instructions.Executed +
## Misc.Instructions + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp1_read_sectors + fb_subp0_write_sectors + fb_subp1_write_sectors +
## Grid.X
##
## Df Sum of Sq RSS AIC
## - Global.Hit.Rate 1 0.00628 19.299 -484.53
## - fb_subp1_read_sectors 1 0.03115 19.324 -484.25
## - Device.Memory.Read.Transactions 1 0.07721 19.370 -483.73
## - Memoryclock 1 0.07972 19.372 -483.70
## - L2.Read.Transactions 1 0.11473 19.407 -483.31
## <none> 19.293 -482.60
## - Global.Store.Transactions.Per.Request 1 0.20161 19.494 -482.33
## - fb_subp0_write_sectors 1 0.21156 19.504 -482.22
## - fb_subp1_write_sectors 1 0.23239 19.525 -481.99
## - Eligible.Warps.Per.Active.Cycle 1 0.26169 19.554 -481.66
## - Input.Size 1 0.32500 19.618 -480.96
## - Instructions.Executed 1 0.37588 19.669 -480.39
## - Misc.Instructions 1 0.37641 19.669 -480.39
## - L2.Write.Transactions 1 0.47876 19.771 -479.26
## - Grid.X 1 0.60449 19.897 -477.87
## - Device.Memory.Write.Transactions 1 0.68554 19.978 -476.99
## - Global.Load.Transactions 1 0.80370 20.096 -475.70
## - Issued.Load.Store.Instructions 1 0.88033 20.173 -474.87

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## - Issued.Control.Flow.Instructions      1  0.97082 20.264 -473.90
## - FLOP.Efficiency.Peak.Single.          1  1.77650 21.069 -465.40
## - Issue.Slot.Utilization                 1  2.38256 21.675 -459.21
## - Issued.IPC                            1  2.44697 21.740 -458.57
## - Bus                                   1  2.84827 22.141 -454.58
##
## Step: AIC=-484.53
## trainingSet$Duration ~ Bus + Memoryclock + Input.Size + Issued.IPC +
##   Issue.Slot.Utilization + Global.Store.Transactions.Per.Request +
##   Global.Load.Transactions + Device.Memory.Read.Transactions +
##   Device.Memory.Write.Transactions + L2.Read.Transactions +
##   L2.Write.Transactions + Issued.Control.Flow.Instructions +
##   Issued.Load.Store.Instructions + Instructions.Executed +
##   Misc.Instructions + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##   fb_subp1_read_sectors + fb_subp0_write_sectors + fb_subp1_write_sectors +
##   Grid.X
##
##                                     Df Sum of Sq   RSS    AIC
## - fb_subp1_read_sectors             1  0.03230 19.331 -486.16
## - Device.Memory.Read.Transactions    1  0.07484 19.374 -485.68
## - Memoryclock                       1  0.08628 19.385 -485.56
## - L2.Read.Transactions               1  0.17012 19.469 -484.62
## <none>                               19.299 -484.53
## - Global.Store.Transactions.Per.Request 1  0.19538 19.494 -484.33
## - fb_subp0_write_sectors            1  0.21666 19.516 -484.09
## - fb_subp1_write_sectors            1  0.23871 19.538 -483.85
## - Input.Size                        1  0.33078 19.630 -482.82
## - Instructions.Executed              1  0.36974 19.669 -482.39
## - Misc.Instructions                 1  0.37026 19.669 -482.39
## - Eligible.Warps.Per.Active.Cycle   1  0.38705 19.686 -482.20
## - L2.Write.Transactions              1  0.47270 19.772 -481.25
## - Grid.X                           1  0.59887 19.898 -479.87
## - Device.Memory.Write.Transactions   1  0.69080 19.990 -478.86
## - Global.Load.Transactions           1  0.79818 20.097 -477.69
## - Issued.Load.Store.Instructions     1  0.87595 20.175 -476.85
## - Issued.Control.Flow.Instructions   1  1.00912 20.308 -475.42
## - FLOP.Efficiency.Peak.Single.      1  1.77944 21.078 -467.30
## - Issue.Slot.Utilization             1  2.42354 21.723 -460.74
## - Issued.IPC                        1  2.48569 21.785 -460.12
## - Bus                               1  2.85702 22.156 -456.43
##
## Step: AIC=-486.16
## trainingSet$Duration ~ Bus + Memoryclock + Input.Size + Issued.IPC +
##   Issue.Slot.Utilization + Global.Store.Transactions.Per.Request +
##   Global.Load.Transactions + Device.Memory.Read.Transactions +
##   Device.Memory.Write.Transactions + L2.Read.Transactions +
##   L2.Write.Transactions + Issued.Control.Flow.Instructions +
##   Issued.Load.Store.Instructions + Instructions.Executed +
##   Misc.Instructions + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##   fb_subp0_write_sectors + fb_subp1_write_sectors + Grid.X
##
##                                     Df Sum of Sq   RSS    AIC
## - Device.Memory.Read.Transactions    1  0.06236 19.394 -487.46
## - Memoryclock                       1  0.08495 19.416 -487.21

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## - L2.Read.Transactions      1  0.14949 19.481 -486.48
## <none>                      19.331 -486.16
## - fb_subp0_write_sectors    1  0.20955 19.541 -485.81
## - Global.Store.Transactions.Per.Request 1  0.21339 19.545 -485.77
## - fb_subp1_write_sectors    1  0.22365 19.555 -485.66
## - Input.Size                1  0.35956 19.691 -484.15
## - Instructions.Executed      1  0.38777 19.719 -483.83
## - Misc.Instructions          1  0.38846 19.720 -483.83
## - Eligible.Warps.Per.Active.Cycle 1  0.42871 19.760 -483.38
## - L2.Write.Transactions      1  0.59354 19.925 -481.57
## - Device.Memory.Write.Transactions 1  0.67750 20.009 -480.65
## - Grid.X                    1  0.70613 20.037 -480.34
## - Global.Load.Transactions   1  0.83797 20.169 -478.91
## - Issued.Load.Store.Instructions 1  0.92134 20.253 -478.01
## - Issued.Control.Flow.Instructions 1  1.10898 20.440 -476.00
## - FLOP.Efficiency.Peak.Single. 1  1.79570 21.127 -468.80
## - Issue.Slot.Utilization     1  2.53752 21.869 -461.28
## - Issued.IPC                 1  2.59991 21.931 -460.66
## - Bus                        1  2.95978 22.291 -457.11
##
## Step: AIC=-487.46
## trainingSet$Duration ~ Bus + Memoryclock + Input.Size + Issued.IPC +
##   Issue.Slot.Utilization + Global.Store.Transactions.Per.Request +
##   Global.Load.Transactions + Device.Memory.Write.Transactions +
##   L2.Read.Transactions + L2.Write.Transactions + Issued.Control.Flow.Instructions +
##   Issued.Load.Store.Instructions + Instructions.Executed +
##   Misc.Instructions + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##   fb_subp0_write_sectors + fb_subp1_write_sectors + Grid.X
##
##               Df Sum of Sq   RSS   AIC
## - Memoryclock      1  0.09766 19.491 -488.37
## - Global.Store.Transactions.Per.Request 1  0.16091 19.555 -487.66
## <none>              19.394 -487.46
## - fb_subp0_write_sectors    1  0.20470 19.598 -487.17
## - fb_subp1_write_sectors    1  0.21585 19.610 -487.05
## - Input.Size          1  0.29801 19.692 -486.14
## - Eligible.Warps.Per.Active.Cycle 1  0.38988 19.784 -485.12
## - L2.Read.Transactions      1  0.53736 19.931 -483.50
## - Device.Memory.Write.Transactions 1  0.64825 20.042 -482.29
## - Global.Load.Transactions   1  0.77807 20.172 -480.89
## - Grid.X                1  0.84057 20.234 -480.21
## - Issued.Load.Store.Instructions 1  0.89770 20.291 -479.60
## - Instructions.Executed      1  1.02871 20.422 -478.19
## - Misc.Instructions          1  1.03458 20.428 -478.13
## - Issued.Control.Flow.Instructions 1  1.28098 20.675 -475.52
## - L2.Write.Transactions      1  1.44446 20.838 -473.80
## - FLOP.Efficiency.Peak.Single. 1  1.75642 21.150 -470.56
## - Issue.Slot.Utilization     1  2.57846 21.972 -462.25
## - Issued.IPC                 1  2.64339 22.037 -461.61
## - Bus                      1  2.91129 22.305 -458.97
##
## Step: AIC=-488.37
## trainingSet$Duration ~ Bus + Input.Size + Issued.IPC + Issue.Slot.Utilization +
##   Global.Store.Transactions.Per.Request + Global.Load.Transactions +

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## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Issued.Load.Store.Instructions + Instructions.Executed +
## Misc.Instructions + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_write_sectors + fb_subp1_write_sectors + Grid.X
##
##
##          Df Sum of Sq    RSS    AIC
## <none>                    19.491 -488.37
## - Global.Store.Transactions.Per.Request  1    0.1852 19.677 -488.31
## - fb_subp0_write_sectors                 1    0.1874 19.679 -488.28
## - fb_subp1_write_sectors                 1    0.1956 19.687 -488.19
## - Input.Size                             1    0.2227 19.714 -487.89
## - Eligible.Warps.Per.Active.Cycle        1    0.3074 19.799 -486.96
## - L2.Read.Transactions                   1    0.6991 20.190 -482.68
## - Grid.X                                1    0.8392 20.331 -481.18
## - Device.Memory.Write.Transactions        1    0.8570 20.348 -480.99
## - Instructions.Executed                   1    1.0983 20.590 -478.42
## - Misc.Instructions                       1    1.1047 20.596 -478.35
## - Issued.Control.Flow.Instructions        1    1.3789 20.870 -475.47
## - L2.Write.Transactions                   1    1.4392 20.930 -474.84
## - Global.Load.Transactions                 1    1.8450 21.336 -470.65
## - Issued.Load.Store.Instructions           1    2.0795 21.571 -468.27
## - FLOP.Efficiency.Peak.Single.            1    2.2272 21.718 -466.78
## - Issue.Slot.Utilization                  1    2.7629 22.254 -461.47
## - Issued.IPC                             1    2.8539 22.345 -460.58
## - Bus                                    1    8.2833 27.775 -413.16
## Start:  AIC=-451.04
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
## Control.Flow.Instructions + Misc.Instructions + Eligible.Warps.Per.Active.Cycle +
## FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
## fb_subp0_write_sectors + fb_subp1_write_sectors + warps_launched +
## inst_executed + inst_issued1 + inst_issued2 + gld_inst_32bit +
## gst_inst_32bit + Grid.X + Block.X
##
##
## Step:  AIC=-451.04
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +

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##      L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
##      Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##      Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
##      Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
##      Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
##      Control.Flow.Instructions + Misc.Instructions + Eligible.Warps.Per.Active.Cycle +
##      FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
##      fb_subp0_write_sectors + fb_subp1_write_sectors + warps_launched +
##      inst_executed + inst_issued1 + inst_issued2 + gld_inst_32bit +
##      gst_inst_32bit + Grid.X
##
##
## Step:  AIC=-451.04
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##      Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##      Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
##      Global.Store.Transactions + Device.Memory.Read.Transactions +
##      Device.Memory.Write.Transactions + L2.Read.Transactions +
##      L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
##      Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##      Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
##      Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
##      Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
##      Control.Flow.Instructions + Misc.Instructions + Eligible.Warps.Per.Active.Cycle +
##      FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
##      fb_subp0_write_sectors + fb_subp1_write_sectors + warps_launched +
##      inst_executed + inst_issued1 + inst_issued2 + gld_inst_32bit +
##      Grid.X
##
##
## Step:  AIC=-451.04
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##      Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##      Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
##      Global.Store.Transactions + Device.Memory.Read.Transactions +
##      Device.Memory.Write.Transactions + L2.Read.Transactions +
##      L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
##      Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##      Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
##      Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
##      Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
##      Control.Flow.Instructions + Misc.Instructions + Eligible.Warps.Per.Active.Cycle +
##      FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
##      fb_subp0_write_sectors + fb_subp1_write_sectors + warps_launched +
##      inst_executed + inst_issued1 + inst_issued2 + Grid.X
##
##
## Step:  AIC=-451.04
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +

```



```

## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
## Control.Flow.Instructions + Misc.Instructions + Eligible.Warps.Per.Active.Cycle +
## FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
## fb_subp0_write_sectors + fb_subp1_write_sectors + warps_launched +
## inst_executed + inst_issued1 + Grid.X
##
##
## Step: AIC=-451.04
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
## Control.Flow.Instructions + Misc.Instructions + Eligible.Warps.Per.Active.Cycle +
## FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
## fb_subp0_write_sectors + fb_subp1_write_sectors + warps_launched +
## inst_executed + Grid.X
##
##
## Step: AIC=-451.04
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
## Control.Flow.Instructions + Misc.Instructions + Eligible.Warps.Per.Active.Cycle +
## FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
## fb_subp0_write_sectors + fb_subp1_write_sectors + warps_launched +
## Grid.X
##
##

```

```

## Step: AIC=-451.04
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
## Control.Flow.Instructions + Misc.Instructions + Eligible.Warps.Per.Active.Cycle +
## FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
## fb_subp0_write_sectors + fb_subp1_write_sectors + Grid.X
##
##
## Step: AIC=-451.04
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
## Control.Flow.Instructions + Eligible.Warps.Per.Active.Cycle +
## FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
## fb_subp0_write_sectors + fb_subp1_write_sectors + Grid.X
##
##
## Step: AIC=-451.04
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + Grid.X
##
##

```

```

## Step: AIC=-451.04
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + Eligible.Warps.Per.Active.Cycle +
## FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
## fb_subp0_write_sectors + fb_subp1_write_sectors + Grid.X
##
##
## Step: AIC=-451.04
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + Grid.X
##
##
## Step: AIC=-451.04
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + Grid.X
##
##
## Step: AIC=-451.04
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +

```

```

## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Instructions.Executed + Eligible.Warps.Per.Active.Cycle +
## FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
## fb_subp0_write_sectors + fb_subp1_write_sectors + Grid.X
##
##
## Step: AIC=-451.04
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Instructions.Executed +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + Grid.X
##
##
## Step: AIC=-451.04
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Instructions.Executed + Eligible.Warps.Per.Active.Cycle +
## FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
## fb_subp0_write_sectors + fb_subp1_write_sectors + Grid.X
##
##
## Step: AIC=-451.04
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Instructions.Executed +

```

```

## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + Grid.X
##
##
## Step: AIC=-451.04
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
## Instructions.Executed + Eligible.Warps.Per.Active.Cycle +
## FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
## fb_subp0_write_sectors + fb_subp1_write_sectors + Grid.X
##
##
## Step: AIC=-451.04
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Shared.Load.Transactions +
## Shared.Store.Transactions + Global.Load.Transactions + Global.Store.Transactions +
## Device.Memory.Read.Transactions + Device.Memory.Write.Transactions +
## L2.Read.Transactions + L2.Write.Transactions + Global.Hit.Rate +
## Issued.Control.Flow.Instructions + Instructions.Executed +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + Grid.X
##
##
## Step: AIC=-451.04
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
## Instructions.Executed + Eligible.Warps.Per.Active.Cycle +
## FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
## fb_subp0_write_sectors + fb_subp1_write_sectors + Grid.X
##
##
## Step: AIC=-451.04
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +

```

```

##      Instructions.Executed + Eligible.Warps.Per.Active.Cycle +
##      FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
##      fb_subp0_write_sectors + fb_subp1_write_sectors + Grid.X
##
##
##              Df Sum of Sq    RSS    AIC
## - Global.Store.Transactions      1  0.00001 15.571 -453.04
## - FLOP.Efficiency.Peak.Single.    1  0.00026 15.571 -453.03
## - Instructions.Executed           1  0.00677 15.577 -452.95
## - Shared.Load.Transactions        1  0.01067 15.581 -452.90
## - Shared.Store.Transactions       1  0.01067 15.581 -452.90
## - Global.Load.Transactions        1  0.01069 15.581 -452.90
## - Issued.Control.Flow.Instructions 1  0.01081 15.581 -452.90
## - L2.Write.Transactions           1  0.02592 15.597 -452.70
## - Global.Hit.Rate                 1  0.05386 15.624 -452.35
## <none>                           15.571 -451.04
## - Device.Memory.Write.Transactions 1  0.16253 15.733 -450.97
## - Issue.Slot.Utilization          1  0.18454 15.755 -450.69
## - fb_subp0_write_sectors          1  0.19596 15.767 -450.55
## - Issued.IPC                     1  0.20918 15.780 -450.38
## - fb_subp1_write_sectors          1  0.21242 15.783 -450.34
## - Eligible.Warps.Per.Active.Cycle 1  0.23327 15.804 -450.08
## - Shared.Memory.Load.Transactions.Per.Request 1  0.24016 15.811 -449.99
## - Shared.Memory.Store.Transactions.Per.Request 1  0.24491 15.816 -449.93
## - Grid.X                         1  0.29276 15.863 -449.33
## - Instructions.per.warp           1  0.31460 15.885 -449.06
## - Input.Size                     1  0.34829 15.919 -448.63
## - fb_subp1_read_sectors           1  0.35521 15.926 -448.55
## - Bus                           1  0.41683 15.988 -447.78
## - L2                             1  0.42508 15.996 -447.68
## - fb_subp0_read_sectors           1  0.44042 16.011 -447.49
## - L2.Read.Transactions            1  0.44792 16.018 -447.39
## - Device.Memory.Read.Transactions 1  0.59872 16.169 -445.53
## - Memoryclock                    1  0.95755 16.528 -441.16
##
## Step:  AIC=-453.04
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##      Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
##      Device.Memory.Read.Transactions + Device.Memory.Write.Transactions +
##      L2.Read.Transactions + L2.Write.Transactions + Global.Hit.Rate +
##      Issued.Control.Flow.Instructions + Instructions.Executed +
##      Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##      fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##      fb_subp1_write_sectors + Grid.X
##
##
##              Df Sum of Sq    RSS    AIC
## - FLOP.Efficiency.Peak.Single.    1  0.00029 15.571 -455.03
## - Instructions.Executed           1  0.00871 15.579 -454.92
## - Shared.Load.Transactions        1  0.01115 15.582 -454.89
## - Shared.Store.Transactions       1  0.01115 15.582 -454.89
## - Global.Load.Transactions        1  0.01117 15.582 -454.89
## - Issued.Control.Flow.Instructions 1  0.01131 15.582 -454.89
## - L2.Write.Transactions           1  0.03804 15.609 -454.55

```

```

## - Global.Hit.Rate 1 0.05390 15.624 -454.35
## <none> 15.571 -453.04
## - Device.Memory.Write.Transactions 1 0.16376 15.734 -452.95
## - Issue.Slot.Utilization 1 0.18594 15.757 -452.67
## - fb_subp0_write_sectors 1 0.19948 15.770 -452.50
## - Issued.IPC 1 0.21068 15.781 -452.36
## - fb_subp1_write_sectors 1 0.21588 15.787 -452.30
## - Eligible.Warps.Per.Active.Cycle 1 0.23331 15.804 -452.08
## - Shared.Memory.Load.Transactions.Per.Request 1 0.24268 15.813 -451.96
## - Shared.Memory.Store.Transactions.Per.Request 1 0.24737 15.818 -451.90
## - fb_subp1_read_sectors 1 0.35680 15.927 -450.53
## - Grid.X 1 0.35946 15.930 -450.49
## - Instructions.per.warp 1 0.36868 15.939 -450.38
## - Input.Size 1 0.39882 15.970 -450.00
## - Bus 1 0.41711 15.988 -449.77
## - L2 1 0.42568 15.996 -449.67
## - fb_subp0_read_sectors 1 0.44271 16.013 -449.46
## - L2.Read.Transactions 1 0.48025 16.051 -448.99
## - Device.Memory.Read.Transactions 1 0.60433 16.175 -447.46
## - Memoryclock 1 0.95834 16.529 -443.15
##
## Step: AIC=-455.03
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Device.Memory.Read.Transactions + Device.Memory.Write.Transactions +
## L2.Read.Transactions + L2.Write.Transactions + Global.Hit.Rate +
## Issued.Control.Flow.Instructions + Instructions.Executed +
## Eligible.Warps.Per.Active.Cycle + fb_subp0_read_sectors +
## fb_subp1_read_sectors + fb_subp0_write_sectors + fb_subp1_write_sectors +
## Grid.X
##
## Df Sum of Sq RSS AIC
## - Instructions.Executed 1 0.00850 15.579 -456.92
## - Shared.Load.Transactions 1 0.01284 15.584 -456.87
## - Shared.Store.Transactions 1 0.01284 15.584 -456.87
## - Global.Load.Transactions 1 0.01286 15.584 -456.87
## - Issued.Control.Flow.Instructions 1 0.01301 15.584 -456.87
## - L2.Write.Transactions 1 0.03944 15.610 -456.53
## - Global.Hit.Rate 1 0.05391 15.625 -456.34
## <none> 15.571 -455.03
## - Device.Memory.Write.Transactions 1 0.16441 15.735 -454.94
## - Issue.Slot.Utilization 1 0.18882 15.760 -454.63
## - fb_subp0_write_sectors 1 0.19959 15.771 -454.50
## - Issued.IPC 1 0.21484 15.786 -454.31
## - fb_subp1_write_sectors 1 0.21590 15.787 -454.29
## - Eligible.Warps.Per.Active.Cycle 1 0.23507 15.806 -454.05
## - Shared.Memory.Load.Transactions.Per.Request 1 0.24504 15.816 -453.92
## - Shared.Memory.Store.Transactions.Per.Request 1 0.24976 15.821 -453.87
## - Grid.X 1 0.36265 15.934 -452.45
## - fb_subp1_read_sectors 1 0.36375 15.935 -452.44
## - Instructions.per.warp 1 0.37268 15.944 -452.33
## - Input.Size 1 0.40319 15.974 -451.94

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## - Bus 1 0.41684 15.988 -451.77
## - L2 1 0.42632 15.997 -451.66
## - fb_subp0_read_sectors 1 0.45265 16.024 -451.33
## - L2.Read.Transactions 1 0.48469 16.056 -450.93
## - Device.Memory.Read.Transactions 1 0.61799 16.189 -449.29
## - Memoryclock 1 0.95834 16.529 -445.15
##
## Step: AIC=-456.92
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Device.Memory.Read.Transactions + Device.Memory.Write.Transactions +
## L2.Read.Transactions + L2.Write.Transactions + Global.Hit.Rate +
## Issued.Control.Flow.Instructions + Eligible.Warps.Per.Active.Cycle +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + Grid.X
##
## Df Sum of Sq RSS AIC
## - Shared.Store.Transactions 1 0.00826 15.588 -458.82
## - Shared.Load.Transactions 1 0.00826 15.588 -458.82
## - Global.Load.Transactions 1 0.00827 15.588 -458.82
## - Issued.Control.Flow.Instructions 1 0.00836 15.588 -458.82
## - L2.Write.Transactions 1 0.03225 15.612 -458.51
## - Global.Hit.Rate 1 0.05392 15.633 -458.24
## <none> 15.579 -456.92
## - Device.Memory.Write.Transactions 1 0.16123 15.741 -456.87
## - Issue.Slot.Utilization 1 0.18310 15.762 -456.60
## - fb_subp0_write_sectors 1 0.19120 15.771 -456.50
## - fb_subp1_write_sectors 1 0.20742 15.787 -456.29
## - Issued.IPC 1 0.20928 15.789 -456.27
## - Shared.Memory.Load.Transactions.Per.Request 1 0.23890 15.818 -455.89
## - Shared.Memory.Store.Transactions.Per.Request 1 0.24361 15.823 -455.84
## - Eligible.Warps.Per.Active.Cycle 1 0.25612 15.835 -455.68
## - fb_subp1_read_sectors 1 0.36473 15.944 -454.32
## - Bus 1 0.43578 16.015 -453.43
## - fb_subp0_read_sectors 1 0.44865 16.028 -453.27
## - L2 1 0.45241 16.032 -453.23
## - Device.Memory.Read.Transactions 1 0.61185 16.191 -451.26
## - L2.Read.Transactions 1 0.72118 16.301 -449.92
## - Grid.X 1 0.85759 16.437 -448.26
## - Instructions.per.warp 1 0.88760 16.467 -447.90
## - Input.Size 1 0.90837 16.488 -447.65
## - Memoryclock 1 1.01285 16.592 -446.39
##
## Step: AIC=-458.82
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Global.Load.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
## Eligible.Warps.Per.Active.Cycle + fb_subp0_read_sectors +
## fb_subp1_read_sectors + fb_subp0_write_sectors + fb_subp1_write_sectors +

```



```

##      Grid.X
##
##
##              Df Sum of Sq   RSS   AIC
## - Shared.Load.Transactions      1    0.00880 15.597 -460.71
## - L2.Write.Transactions          1    0.02941 15.617 -460.44
## - Global.Hit.Rate                1    0.05262 15.640 -460.15
## <none>                          15.588 -458.82
## - Issue.Slot.Utilization         1    0.17783 15.765 -458.56
## - fb_subp0_write_sectors         1    0.18615 15.774 -458.46
## - Device.Memory.Write.Transactions 1    0.18778 15.775 -458.43
## - fb_subp1_write_sectors         1    0.20235 15.790 -458.25
## - Issued.IPC                    1    0.20569 15.793 -458.21
## - Shared.Memory.Load.Transactions.Per.Request 1    0.23741 15.825 -457.81
## - Shared.Memory.Store.Transactions.Per.Request 1    0.24247 15.830 -457.75
## - Eligible.Warps.Per.Active.Cycle 1    0.25041 15.838 -457.65
## - Global.Load.Transactions       1    0.28770 15.875 -457.18
## - fb_subp1_read_sectors          1    0.37856 15.966 -456.04
## - L2                             1    0.44889 16.037 -455.17
## - Bus                            1    0.45030 16.038 -455.15
## - fb_subp0_read_sectors          1    0.46203 16.050 -455.01
## - Device.Memory.Read.Transactions 1    0.63266 16.220 -452.90
## - L2.Read.Transactions           1    0.71364 16.301 -451.91
## - Grid.X                         1    0.86147 16.449 -450.11
## - Instructions.per.warp          1    0.89104 16.479 -449.76
## - Issued.Control.Flow.Instructions 1    0.89295 16.481 -449.73
## - Input.Size                    1    0.90046 16.488 -449.64
## - Memoryclock                   1    1.04828 16.636 -447.87
##
## Step:  AIC=-460.71
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##      Global.Load.Transactions + Device.Memory.Read.Transactions +
##      Device.Memory.Write.Transactions + L2.Read.Transactions +
##      L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
##      Eligible.Warps.Per.Active.Cycle + fb_subp0_read_sectors +
##      fb_subp1_read_sectors + fb_subp0_write_sectors + fb_subp1_write_sectors +
##      Grid.X
##
##
##              Df Sum of Sq   RSS   AIC
## - L2.Write.Transactions      1    0.02561 15.622 -462.38
## - Global.Hit.Rate            1    0.04579 15.642 -462.12
## <none>                       15.597 -460.71
## - Issue.Slot.Utilization     1    0.17538 15.772 -460.48
## - Device.Memory.Write.Transactions 1    0.19715 15.794 -460.21
## - fb_subp0_write_sectors     1    0.19822 15.795 -460.19
## - Issued.IPC                 1    0.20270 15.799 -460.14
## - fb_subp1_write_sectors     1    0.22317 15.820 -459.88
## - Shared.Memory.Load.Transactions.Per.Request 1    0.23269 15.829 -459.76
## - Shared.Memory.Store.Transactions.Per.Request 1    0.23752 15.834 -459.70
## - Eligible.Warps.Per.Active.Cycle 1    0.24379 15.840 -459.62
## - Global.Load.Transactions   1    0.29083 15.887 -459.03
## - fb_subp1_read_sectors      1    0.40165 15.998 -457.65
## - fb_subp0_read_sectors      1    0.47897 16.076 -456.69

```

```

## - L2 1 0.51497 16.111 -456.24
## - Bus 1 0.51821 16.115 -456.20
## - Device.Memory.Read.Transactions 1 0.67254 16.269 -454.30
## - Grid.X 1 0.91504 16.512 -451.36
## - Input.Size 1 0.95297 16.549 -450.90
## - Instructions.per.warp 1 0.96706 16.564 -450.73
## - Memoryclock 1 1.15195 16.748 -448.53
## - L2.Read.Transactions 1 1.17698 16.773 -448.23
## - Issued.Control.Flow.Instructions 1 1.19064 16.787 -448.07
##
## Step: AIC=-462.38
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## Global.Hit.Rate + Issued.Control.Flow.Instructions + Eligible.Warps.Per.Active.Cycle +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + Grid.X
##
## Df Sum of Sq RSS AIC
## - Global.Hit.Rate 1 0.04686 15.669 -463.78
## <none> 15.622 -462.38
## - Issue.Slot.Utilization 1 0.17011 15.792 -462.22
## - Device.Memory.Write.Transactions 1 0.18385 15.806 -462.05
## - fb_subp0_write_sectors 1 0.19247 15.815 -461.94
## - Issued.IPC 1 0.19697 15.819 -461.89
## - fb_subp1_write_sectors 1 0.21568 15.838 -461.65
## - Shared.Memory.Load.Transactions.Per.Request 1 0.22650 15.849 -461.51
## - Shared.Memory.Store.Transactions.Per.Request 1 0.23162 15.854 -461.45
## - Eligible.Warps.Per.Active.Cycle 1 0.24330 15.865 -461.30
## - fb_subp1_read_sectors 1 0.38863 16.011 -459.49
## - fb_subp0_read_sectors 1 0.46681 16.089 -458.52
## - L2 1 0.50740 16.130 -458.02
## - Bus 1 0.50835 16.130 -458.01
## - Device.Memory.Read.Transactions 1 0.65627 16.278 -456.19
## - Global.Load.Transactions 1 0.74022 16.362 -455.17
## - Grid.X 1 0.89246 16.515 -453.32
## - Input.Size 1 0.93099 16.553 -452.86
## - Instructions.per.warp 1 0.94164 16.564 -452.73
## - Memoryclock 1 1.13777 16.760 -450.39
## - L2.Read.Transactions 1 1.17500 16.797 -449.95
## - Issued.Control.Flow.Instructions 1 1.44266 17.065 -446.80
##
## Step: AIC=-463.78
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## Issued.Control.Flow.Instructions + Eligible.Warps.Per.Active.Cycle +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + Grid.X
##

```

```

##                               Df Sum of Sq    RSS    AIC
## <none>                               15.669 -463.78
## - Device.Memory.Write.Transactions      1  0.18828 15.857 -463.41
## - fb_subp0_write_sectors                 1  0.19674 15.866 -463.30
## - Issue.Slot.Utilization                 1  0.20882 15.878 -463.15
## - fb_subp1_write_sectors                 1  0.22116 15.890 -462.99
## - Issued.IPC                             1  0.22452 15.893 -462.95
## - Shared.Memory.Store.Transactions.Per.Request 1  0.24527 15.914 -462.69
## - Shared.Memory.Load.Transactions.Per.Request 1  0.24588 15.915 -462.68
## - Eligible.Warps.Per.Active.Cycle        1  0.34916 16.018 -461.40
## - fb_subp1_read_sectors                  1  0.40483 16.074 -460.71
## - fb_subp0_read_sectors                  1  0.48692 16.156 -459.69
## - Bus                                    1  0.57899 16.248 -458.56
## - L2                                    1  0.58451 16.253 -458.49
## - Device.Memory.Read.Transactions         1  0.69001 16.359 -457.21
## - Global.Load.Transactions                1  0.75661 16.426 -456.40
## - Grid.X                                1  0.89562 16.565 -454.72
## - Input.Size                             1  0.92466 16.594 -454.37
## - Instructions.per.warp                   1  0.93938 16.608 -454.20
## - Memoryclock                             1  1.13790 16.807 -451.83
## - L2.Read.Transactions                    1  1.35331 17.022 -449.30
## - Issued.Control.Flow.Instructions        1  1.63898 17.308 -445.99
## Start:  AIC=-656.14
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##   Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##   Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##   Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##   Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
##   Global.Store.Transactions + Device.Memory.Read.Transactions +
##   Device.Memory.Write.Transactions + L2.Read.Transactions +
##   L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
##   Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##   Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
##   Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
##   Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
##   Control.Flow.Instructions + Misc.Instructions + Eligible.Warps.Per.Active.Cycle +
##   FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
##   fb_subp0_write_sectors + fb_subp1_write_sectors + warps_launched +
##   inst_executed + inst_issued1 + inst_issued2 + gld_inst_32bit +
##   gst_inst_32bit + Grid.X + Block.X
##
##
## Step:  AIC=-656.14
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##   Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##   Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##   Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##   Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
##   Global.Store.Transactions + Device.Memory.Read.Transactions +
##   Device.Memory.Write.Transactions + L2.Read.Transactions +
##   L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
##   Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##   Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
##   Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +

```

```

##      Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
##      Control.Flow.Instructions + Misc.Instructions + Eligible.Warps.Per.Active.Cycle +
##      FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
##      fb_subp0_write_sectors + fb_subp1_write_sectors + warps_launched +
##      inst_executed + inst_issued1 + inst_issued2 + gld_inst_32bit +
##      Grid.X + Block.X
##
##
## Step:  AIC=-656.14
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##      Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##      Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
##      Global.Store.Transactions + Device.Memory.Read.Transactions +
##      Device.Memory.Write.Transactions + L2.Read.Transactions +
##      L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
##      Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##      Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
##      Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
##      Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
##      Control.Flow.Instructions + Misc.Instructions + Eligible.Warps.Per.Active.Cycle +
##      FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
##      fb_subp0_write_sectors + fb_subp1_write_sectors + warps_launched +
##      inst_executed + inst_issued1 + inst_issued2 + Grid.X + Block.X
##
##
## Step:  AIC=-656.14
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##      Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##      Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
##      Global.Store.Transactions + Device.Memory.Read.Transactions +
##      Device.Memory.Write.Transactions + L2.Read.Transactions +
##      L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
##      Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##      Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
##      Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
##      Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
##      Control.Flow.Instructions + Misc.Instructions + Eligible.Warps.Per.Active.Cycle +
##      FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
##      fb_subp0_write_sectors + fb_subp1_write_sectors + warps_launched +
##      inst_executed + inst_issued1 + Grid.X + Block.X
##
##
## Step:  AIC=-656.14
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##      Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##      Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
##      Global.Store.Transactions + Device.Memory.Read.Transactions +
##      Device.Memory.Write.Transactions + L2.Read.Transactions +

```

```

##      L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
##      Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##      Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
##      Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
##      Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
##      Control.Flow.Instructions + Misc.Instructions + Eligible.Warps.Per.Active.Cycle +
##      FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
##      fb_subp0_write_sectors + fb_subp1_write_sectors + warps_launched +
##      inst_executed + Grid.X + Block.X
##
##
## Step:  AIC=-656.14
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##      Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##      Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
##      Global.Store.Transactions + Device.Memory.Read.Transactions +
##      Device.Memory.Write.Transactions + L2.Read.Transactions +
##      L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
##      Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##      Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
##      Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
##      Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
##      Control.Flow.Instructions + Misc.Instructions + Eligible.Warps.Per.Active.Cycle +
##      FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
##      fb_subp0_write_sectors + fb_subp1_write_sectors + warps_launched +
##      Grid.X + Block.X
##
##
## Step:  AIC=-656.14
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##      Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##      Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
##      Global.Store.Transactions + Device.Memory.Read.Transactions +
##      Device.Memory.Write.Transactions + L2.Read.Transactions +
##      L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
##      Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##      Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
##      Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
##      Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
##      Control.Flow.Instructions + Misc.Instructions + Eligible.Warps.Per.Active.Cycle +
##      FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
##      fb_subp0_write_sectors + fb_subp1_write_sectors + Grid.X +
##      Block.X
##
##
## Step:  AIC=-656.14
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##      Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +

```

```

## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
## Control.Flow.Instructions + Eligible.Warps.Per.Active.Cycle +
## FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
## fb_subp0_write_sectors + fb_subp1_write_sectors + Grid.X +
## Block.X
##
##
## Step: AIC=-656.14
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + Grid.X + Block.X
##
##
## Step: AIC=-656.14
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + Eligible.Warps.Per.Active.Cycle +
## FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
## fb_subp0_write_sectors + fb_subp1_write_sectors + Grid.X +
## Block.X
##
##
## Step: AIC=-656.14
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +

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```

## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Issue.Slots + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + Grid.X + Block.X
##
##
## Step: AIC=-656.14
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Instructions.Executed + Issue.Slots + Eligible.Warps.Per.Active.Cycle +
## FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
## fb_subp0_write_sectors + fb_subp1_write_sectors + Grid.X +
## Block.X
##
##
## Step: AIC=-656.14
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Instructions.Executed +
## Issue.Slots + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + Grid.X + Block.X
##
##
## Step: AIC=-656.14
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +

```

```

##      L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
##      Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##      Instructions.Executed + Issue.Slots + Eligible.Warps.Per.Active.Cycle +
##      FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
##      fb_subp0_write_sectors + fb_subp1_write_sectors + Grid.X +
##      Block.X
##
##
## Step:  AIC=-656.14
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##      Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##      Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
##      Global.Store.Transactions + Device.Memory.Read.Transactions +
##      Device.Memory.Write.Transactions + L2.Read.Transactions +
##      L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
##      Executed.Control.Flow.Instructions + Instructions.Executed +
##      Issue.Slots + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##      fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##      fb_subp1_write_sectors + Grid.X + Block.X
##
##
## Step:  AIC=-656.14
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##      Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##      Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
##      Global.Store.Transactions + Device.Memory.Read.Transactions +
##      Device.Memory.Write.Transactions + L2.Read.Transactions +
##      L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
##      Instructions.Executed + Issue.Slots + Eligible.Warps.Per.Active.Cycle +
##      FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
##      fb_subp0_write_sectors + fb_subp1_write_sectors + Grid.X +
##      Block.X
##
##
## Step:  AIC=-656.14
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##      Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##      Shared.Load.Transactions + Shared.Store.Transactions + Global.Store.Transactions +
##      Device.Memory.Read.Transactions + Device.Memory.Write.Transactions +
##      L2.Read.Transactions + L2.Write.Transactions + Global.Hit.Rate +
##      Issued.Control.Flow.Instructions + Instructions.Executed +
##      Issue.Slots + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##      fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##      fb_subp1_write_sectors + Grid.X + Block.X
##
##
## Step:  AIC=-656.14
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +

```



```

## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Store.Transactions.Per.Request + Shared.Load.Transactions +
## Shared.Store.Transactions + Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
## Instructions.Executed + Issue.Slots + Eligible.Warps.Per.Active.Cycle +
## FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
## fb_subp0_write_sectors + fb_subp1_write_sectors + Grid.X +
## Block.X
##
##
## Step: AIC=-656.14
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Store.Transactions +
## Device.Memory.Read.Transactions + Device.Memory.Write.Transactions +
## L2.Read.Transactions + L2.Write.Transactions + Global.Hit.Rate +
## Issued.Control.Flow.Instructions + Instructions.Executed +
## Issue.Slots + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + Grid.X + Block.X
##
##
## Step: AIC=-656.14
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Global.Store.Transactions.Per.Request + Shared.Load.Transactions +
## Shared.Store.Transactions + Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
## Instructions.Executed + Issue.Slots + Eligible.Warps.Per.Active.Cycle +
## FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
## fb_subp0_write_sectors + fb_subp1_write_sectors + Grid.X +
## Block.X
##
##
## Step: AIC=-656.14
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Global.Store.Transactions.Per.Request + Shared.Load.Transactions +
## Shared.Store.Transactions + Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
## Instructions.Executed + Issue.Slots + Eligible.Warps.Per.Active.Cycle +
## FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
## fb_subp0_write_sectors + fb_subp1_write_sectors + Grid.X +
## Block.X
##
##
##
## Df Sum of Sq RSS AIC
## - L2.Write.Transactions 1 0.0001 19.055 -658.14
## - Issued.Control.Flow.Instructions 1 0.0010 19.056 -658.13
## - Shared.Store.Transactions 1 0.0012 19.056 -658.12

```

```

## - Issue.Slot.Utilization      1      0.0035 19.059 -658.09
## - Global.Store.Transactions.Per.Request 1      0.0048 19.060 -658.07
## - Issued.IPC                  1      0.0096 19.065 -658.01
## - Block.X                     1      0.0469 19.102 -657.48
## - FLOP.Efficiency.Peak.Single. 1      0.0833 19.139 -656.97
## <none>                        18.055 -656.14
## - Instructions.Executed       1      0.1743 19.230 -655.69
## - L2.Read.Transactions        1      0.1766 19.232 -655.66
## - Eligible.Warps.Per.Active.Cycle 1      0.1820 19.237 -655.58
## - Shared.Load.Transactions    1      0.2560 19.311 -654.55
## - Global.Store.Transactions   1      0.2766 19.332 -654.27
## - fb_subp1_write_sectors      1      0.5069 19.562 -651.08
## - fb_subp0_read_sectors       1      0.5926 19.648 -649.90
## - fb_subp0_write_sectors      1      0.7549 19.810 -647.69
## - Device.Memory.Write.Transactions 1      0.7594 19.815 -647.63
## - fb_subp1_read_sectors       1      0.8107 19.866 -646.93
## - Input.Size                  1      0.8484 19.904 -646.42
## - Instructions.per.warp       1      0.9469 20.002 -645.10
## - Grid.X                      1      1.0145 20.070 -644.19
## - Global.Hit.Rate             1      1.0688 20.124 -643.46
## - Device.Memory.Read.Transactions 1      1.8201 20.875 -633.60
## - Issue.Slots                 1      1.8991 20.954 -632.59
## - L2                          1      2.3952 21.451 -626.29
## - Bus                         1      2.5779 21.633 -624.01
## - Memoryclock                 1      3.4205 22.476 -613.73
##
## Step: AIC=-658.14
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Input.Size +
##   Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##   Global.Store.Transactions.Per.Request + Shared.Load.Transactions +
##   Shared.Store.Transactions + Global.Store.Transactions + Device.Memory.Read.Transactions +
##   Device.Memory.Write.Transactions + L2.Read.Transactions +
##   Global.Hit.Rate + Issued.Control.Flow.Instructions + Instructions.Executed +
##   Issue.Slots + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##   fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##   fb_subp1_write_sectors + Grid.X + Block.X
##
##              Df Sum of Sq  RSS    AIC
## - Issued.Control.Flow.Instructions      1      0.0010 19.056 -660.13
## - Shared.Store.Transactions              1      0.0012 19.057 -660.12
## - Issue.Slot.Utilization                 1      0.0036 19.059 -660.09
## - Global.Store.Transactions.Per.Request  1      0.0050 19.060 -660.07
## - Issued.IPC                            1      0.0099 19.065 -660.00
## - Block.X                               1      0.0468 19.102 -659.48
## - FLOP.Efficiency.Peak.Single.           1      0.0842 19.140 -658.95
## <none>                                  18.055 -658.14
## - Instructions.Executed                  1      0.1745 19.230 -657.69
## - L2.Read.Transactions                   1      0.1769 19.232 -657.65
## - Eligible.Warps.Per.Active.Cycle        1      0.1830 19.238 -657.57
## - Shared.Load.Transactions                1      0.2559 19.311 -656.55
## - fb_subp1_write_sectors                  1      0.5070 19.562 -653.08
## - fb_subp0_read_sectors                   1      0.5933 19.649 -651.89
## - fb_subp0_write_sectors                  1      0.7548 19.810 -649.69
## - Device.Memory.Write.Transactions        1      0.7594 19.815 -649.63

```

```

## - fb_subp1_read_sectors      1      0.8138 19.869 -648.89
## - Input.Size                  1      0.8484 19.904 -648.42
## - Instructions.per.warp       1      0.9468 20.002 -647.09
## - Grid.X                      1      1.0145 20.070 -646.19
## - Global.Hit.Rate             1      1.0727 20.128 -645.41
## - Global.Store.Transactions   1      1.1117 20.167 -644.89
## - Device.Memory.Read.Transactions 1      1.8300 20.885 -635.47
## - Issue.Slots                 1      1.8990 20.954 -634.59
## - L2                          1      2.4003 21.456 -628.22
## - Bus                         1      2.5811 21.637 -625.97
## - Memoryclock                 1      3.4221 22.478 -615.71
##
## Step: AIC=-660.13
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Input.Size +
##   Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##   Global.Store.Transactions.Per.Request + Shared.Load.Transactions +
##   Shared.Store.Transactions + Global.Store.Transactions + Device.Memory.Read.Transactions +
##   Device.Memory.Write.Transactions + L2.Read.Transactions +
##   Global.Hit.Rate + Instructions.Executed + Issue.Slots + Eligible.Warps.Per.Active.Cycle +
##   FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
##   fb_subp0_write_sectors + fb_subp1_write_sectors + Grid.X +
##   Block.X
##
##                                Df Sum of Sq   RSS   AIC
## - Issue.Slot.Utilization      1      0.0035 19.060 -662.08
## - Global.Store.Transactions.Per.Request 1      0.0046 19.061 -662.06
## - Issued.IPC                  1      0.0099 19.066 -661.99
## - Block.X                     1      0.0498 19.106 -661.42
## - FLOP.Efficiency.Peak.Single. 1      0.1244 19.181 -660.38
## <none>                        19.056 -660.13
## - L2.Read.Transactions        1      0.1762 19.233 -659.65
## - Instructions.Executed        1      0.1777 19.234 -659.63
## - Eligible.Warps.Per.Active.Cycle 1      0.1837 19.240 -659.55
## - Shared.Load.Transactions     1      0.2678 19.324 -658.37
## - fb_subp1_write_sectors       1      0.5399 19.596 -654.61
## - fb_subp0_read_sectors        1      0.5924 19.649 -653.89
## - fb_subp1_read_sectors        1      0.8128 19.869 -650.89
## - fb_subp0_write_sectors       1      0.8151 19.872 -650.86
## - Input.Size                  1      0.8513 19.908 -650.37
## - Device.Memory.Write.Transactions 1      0.9086 19.965 -649.60
## - Instructions.per.warp        1      0.9541 20.011 -648.98
## - Grid.X                      1      1.0189 20.075 -648.11
## - Global.Hit.Rate             1      1.0726 20.129 -647.40
## - Global.Store.Transactions   1      1.1566 20.213 -646.28
## - Device.Memory.Read.Transactions 1      1.8311 20.888 -637.44
## - Issue.Slots                 1      1.9682 21.025 -635.69
## - Shared.Store.Transactions    1      2.1821 21.238 -632.96
## - L2                          1      2.4102 21.467 -630.09
## - Bus                         1      2.7010 21.758 -626.47
## - Memoryclock                 1      3.6789 22.735 -614.64
##
## Step: AIC=-662.08
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Input.Size +
##   Issued.IPC + Instructions.per.warp + Global.Store.Transactions.Per.Request +

```

```

## Shared.Load.Transactions + Shared.Store.Transactions + Global.Store.Transactions +
## Device.Memory.Read.Transactions + Device.Memory.Write.Transactions +
## L2.Read.Transactions + Global.Hit.Rate + Instructions.Executed +
## Issue.Slots + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + Grid.X + Block.X
##
##
## Df Sum of Sq RSS AIC
## - Global.Store.Transactions.Per.Request 1 0.0050 19.065 -664.01
## - FLOP.Efficiency.Peak.Single. 1 0.1336 19.194 -662.20
## <none> 19.060 -662.08
## - Instructions.Executed 1 0.1774 19.237 -661.58
## - L2.Read.Transactions 1 0.1795 19.239 -661.55
## - Eligible.Warps.Per.Active.Cycle 1 0.1830 19.243 -661.51
## - Shared.Load.Transactions 1 0.2730 19.333 -660.25
## - Issued.IPC 1 0.3353 19.395 -659.38
## - fb_subp1_write_sectors 1 0.5364 19.596 -656.61
## - Block.X 1 0.5824 19.642 -655.98
## - fb_subp0_read_sectors 1 0.5908 19.651 -655.86
## - fb_subp0_write_sectors 1 0.8116 19.872 -652.86
## - fb_subp1_read_sectors 1 0.8125 19.872 -652.85
## - Input.Size 1 0.8911 19.951 -651.78
## - Device.Memory.Write.Transactions 1 0.9051 19.965 -651.60
## - Instructions.per.warp 1 1.0024 20.062 -650.29
## - Grid.X 1 1.0709 20.131 -649.37
## - Global.Hit.Rate 1 1.1283 20.188 -648.60
## - Global.Store.Transactions 1 1.1683 20.228 -648.07
## - Device.Memory.Read.Transactions 1 1.8291 20.889 -639.43
## - Issue.Slots 1 1.9963 21.056 -637.28
## - Shared.Store.Transactions 1 2.2212 21.281 -634.42
## - L2 1 2.4690 21.529 -631.31
## - Bus 1 2.7763 21.836 -627.50
## - Memoryclock 1 3.7538 22.814 -615.72
##
## Step: AIC=-664.01
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Input.Size +
## Issued.IPC + Instructions.per.warp + Shared.Load.Transactions +
## Shared.Store.Transactions + Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## Global.Hit.Rate + Instructions.Executed + Issue.Slots + Eligible.Warps.Per.Active.Cycle +
## FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
## fb_subp0_write_sectors + fb_subp1_write_sectors + Grid.X +
## Block.X
##
##
## Df Sum of Sq RSS AIC
## <none> 19.065 -664.01
## - Instructions.Executed 1 0.1726 19.238 -663.58
## - L2.Read.Transactions 1 0.1821 19.247 -663.45
## - Eligible.Warps.Per.Active.Cycle 1 0.1993 19.264 -663.21
## - Shared.Load.Transactions 1 0.2905 19.355 -661.94
## - FLOP.Efficiency.Peak.Single. 1 0.3227 19.388 -661.49
## - Issued.IPC 1 0.3402 19.405 -661.25
## - fb_subp1_write_sectors 1 0.5425 19.607 -658.46
## - Block.X 1 0.5801 19.645 -657.94

```

```

## - fb_subp0_read_sectors          1    0.5863 19.651 -657.86
## - fb_subp1_read_sectors          1    0.8088 19.874 -654.83
## - fb_subp0_write_sectors         1    0.8196 19.884 -654.68
## - Device.Memory.Write.Transactions 1    0.9086 19.974 -653.48
## - Input.Size                     1    0.9227 19.988 -653.29
## - Instructions.per.warp           1    1.0251 20.090 -651.92
## - Grid.X                         1    1.0893 20.154 -651.06
## - Global.Store.Transactions       1    1.1778 20.243 -649.88
## - Global.Hit.Rate                 1    1.2600 20.325 -648.79
## - Device.Memory.Read.Transactions 1    1.8241 20.889 -641.43
## - Issue.Slots                    1    1.9951 21.060 -639.23
## - Shared.Store.Transactions       1    2.2673 21.332 -635.78
## - L2                             1    2.4670 21.532 -633.27
## - Bus                           1    2.7726 21.837 -629.48
## - Memoryclock                    1    3.7927 22.858 -617.20
## Start:  AIC=-4414.96
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##   Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##   Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##   Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##   Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
##   Global.Store.Transactions + Device.Memory.Read.Transactions +
##   Device.Memory.Write.Transactions + L2.Read.Transactions +
##   L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
##   Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##   Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
##   Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
##   Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
##   Control.Flow.Instructions + Misc.Instructions + Eligible.Warps.Per.Active.Cycle +
##   FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
##   fb_subp0_write_sectors + fb_subp1_write_sectors + warps_launched +
##   inst_executed + inst_issued1 + inst_issued2 + gld_inst_32bit +
##   gst_inst_32bit + Grid.X + Block.X
##
##
## Step:  AIC=-4414.96
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##   Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##   Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##   Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##   Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
##   Global.Store.Transactions + Device.Memory.Read.Transactions +
##   Device.Memory.Write.Transactions + L2.Read.Transactions +
##   L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
##   Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##   Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
##   Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
##   Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
##   Control.Flow.Instructions + Misc.Instructions + Eligible.Warps.Per.Active.Cycle +
##   FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
##   fb_subp0_write_sectors + fb_subp1_write_sectors + warps_launched +
##   inst_executed + inst_issued1 + inst_issued2 + gld_inst_32bit +
##   Grid.X + Block.X
##

```

```

##
## Step: AIC=-4414.96
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
## Control.Flow.Instructions + Misc.Instructions + Eligible.Warps.Per.Active.Cycle +
## FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
## fb_subp0_write_sectors + fb_subp1_write_sectors + warps_launched +
## inst_executed + inst_issued1 + inst_issued2 + Grid.X + Block.X
##
##
## Step: AIC=-4414.96
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
## Control.Flow.Instructions + Misc.Instructions + Eligible.Warps.Per.Active.Cycle +
## FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
## fb_subp0_write_sectors + fb_subp1_write_sectors + warps_launched +
## inst_issued1 + inst_issued2 + Grid.X + Block.X
##
##
## Step: AIC=-4414.96
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
## Control.Flow.Instructions + Misc.Instructions + Eligible.Warps.Per.Active.Cycle +
## FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +

```

```

##      fb_subp0_write_sectors + fb_subp1_write_sectors + inst_issued1 +
##      inst_issued2 + Grid.X + Block.X
##
##
## Step:  AIC=-4414.96
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##      Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##      Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
##      Global.Store.Transactions + Device.Memory.Read.Transactions +
##      Device.Memory.Write.Transactions + L2.Read.Transactions +
##      L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
##      Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##      Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
##      Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
##      Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
##      Control.Flow.Instructions + Eligible.Warps.Per.Active.Cycle +
##      FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
##      fb_subp0_write_sectors + fb_subp1_write_sectors + inst_issued1 +
##      inst_issued2 + Grid.X + Block.X
##
##
## Step:  AIC=-4414.96
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##      Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##      Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
##      Global.Store.Transactions + Device.Memory.Read.Transactions +
##      Device.Memory.Write.Transactions + L2.Read.Transactions +
##      L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
##      Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##      Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
##      Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
##      Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
##      Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##      fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##      fb_subp1_write_sectors + inst_issued1 + inst_issued2 + Grid.X +
##      Block.X
##
##
## Step:  AIC=-4414.96
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##      Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##      Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
##      Global.Store.Transactions + Device.Memory.Read.Transactions +
##      Device.Memory.Write.Transactions + L2.Read.Transactions +
##      L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
##      Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##      Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
##      Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +

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##      Instructions.Issued + Issue.Slots + Eligible.Warps.Per.Active.Cycle +
##      FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
##      fb_subp0_write_sectors + fb_subp1_write_sectors + inst_issued1 +
##      inst_issued2 + Grid.X + Block.X
##
##
## Step:  AIC=-4414.96
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##      Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##      Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
##      Global.Store.Transactions + Device.Memory.Read.Transactions +
##      Device.Memory.Write.Transactions + L2.Read.Transactions +
##      L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
##      Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##      Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
##      Floating.Point.Operations.Single.Precision.FMA. + Instructions.Issued +
##      Issue.Slots + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##      fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##      fb_subp1_write_sectors + inst_issued1 + inst_issued2 + Grid.X +
##      Block.X
##
##
## Step:  AIC=-4414.96
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##      Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##      Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
##      Global.Store.Transactions + Device.Memory.Read.Transactions +
##      Device.Memory.Write.Transactions + L2.Read.Transactions +
##      L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
##      Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##      Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
##      Instructions.Issued + Issue.Slots + Eligible.Warps.Per.Active.Cycle +
##      FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
##      fb_subp0_write_sectors + fb_subp1_write_sectors + inst_issued1 +
##      inst_issued2 + Grid.X + Block.X
##
##
## Step:  AIC=-4414.96
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##      Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##      Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
##      Global.Store.Transactions + Device.Memory.Read.Transactions +
##      Device.Memory.Write.Transactions + L2.Read.Transactions +
##      L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
##      Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##      Executed.Load.Store.Instructions + Instructions.Issued +
##      Issue.Slots + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##      fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +

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##      fb_subp1_write_sectors + inst_issued1 + inst_issued2 + Grid.X +
##      Block.X
##
##
## Step:  AIC=-4414.96
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##      Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##      Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
##      Global.Store.Transactions + Device.Memory.Read.Transactions +
##      Device.Memory.Write.Transactions + L2.Read.Transactions +
##      L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
##      Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##      Instructions.Issued + Issue.Slots + Eligible.Warps.Per.Active.Cycle +
##      FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
##      fb_subp0_write_sectors + fb_subp1_write_sectors + inst_issued1 +
##      inst_issued2 + Grid.X + Block.X
##
##
## Step:  AIC=-4414.96
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##      Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##      Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
##      Global.Store.Transactions + Device.Memory.Read.Transactions +
##      Device.Memory.Write.Transactions + L2.Read.Transactions +
##      L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
##      Executed.Control.Flow.Instructions + Instructions.Issued +
##      Issue.Slots + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##      fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##      fb_subp1_write_sectors + inst_issued1 + inst_issued2 + Grid.X +
##      Block.X
##
##
## Step:  AIC=-4414.96
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##      Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##      Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
##      Global.Store.Transactions + Device.Memory.Read.Transactions +
##      Device.Memory.Write.Transactions + L2.Read.Transactions +
##      L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
##      Instructions.Issued + Issue.Slots + Eligible.Warps.Per.Active.Cycle +
##      FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
##      fb_subp0_write_sectors + fb_subp1_write_sectors + inst_issued1 +
##      inst_issued2 + Grid.X + Block.X
##
##
## Step:  AIC=-4414.96
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +

```

```

## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## 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.Transactions + L2.Write.Transactions + Global.Hit.Rate +
## Issued.Control.Flow.Instructions + Instructions.Issued +
## Issue.Slots + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + inst_issued1 + inst_issued2 + Grid.X +
## Block.X
##
##
## Step: AIC=-4414.96
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Global.Load.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
## Instructions.Issued + Issue.Slots + Eligible.Warps.Per.Active.Cycle +
## FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
## fb_subp0_write_sectors + fb_subp1_write_sectors + inst_issued1 +
## inst_issued2 + Grid.X + Block.X
##
##
## Step: AIC=-4414.96
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Shared.Load.Transactions +
## Global.Load.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
## Instructions.Issued + Issue.Slots + Eligible.Warps.Per.Active.Cycle +
## FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
## fb_subp0_write_sectors + fb_subp1_write_sectors + inst_issued1 +
## inst_issued2 + Grid.X + Block.X
##
##
## Step: AIC=-4414.96
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Global.Load.Transactions.Per.Request +
## Shared.Load.Transactions + Global.Load.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
## Instructions.Issued + Issue.Slots + Eligible.Warps.Per.Active.Cycle +
## FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
## fb_subp0_write_sectors + fb_subp1_write_sectors + inst_issued1 +
## inst_issued2 + Grid.X + Block.X
##
##
## Step: AIC=-4414.96

```

```

## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##   Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##   Global.Load.Transactions.Per.Request + Shared.Load.Transactions +
##   Global.Load.Transactions + Device.Memory.Read.Transactions +
##   Device.Memory.Write.Transactions + L2.Read.Transactions +
##   L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
##   Instructions.Issued + Issue.Slots + Eligible.Warps.Per.Active.Cycle +
##   FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
##   fb_subp0_write_sectors + fb_subp1_write_sectors + inst_issued1 +
##   inst_issued2 + Grid.X + Block.X
##
##
## Step: AIC=-4414.96
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##   Issued.IPC + Issue.Slot.Utilization + Global.Load.Transactions.Per.Request +
##   Shared.Load.Transactions + Global.Load.Transactions + Device.Memory.Read.Transactions +
##   Device.Memory.Write.Transactions + L2.Read.Transactions +
##   L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
##   Instructions.Issued + Issue.Slots + Eligible.Warps.Per.Active.Cycle +
##   FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
##   fb_subp0_write_sectors + fb_subp1_write_sectors + inst_issued1 +
##   inst_issued2 + Grid.X + Block.X
##
##
## Step: AIC=-4414.96
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Input.Size +
##   Issued.IPC + Issue.Slot.Utilization + Global.Load.Transactions.Per.Request +
##   Shared.Load.Transactions + Global.Load.Transactions + Device.Memory.Read.Transactions +
##   Device.Memory.Write.Transactions + L2.Read.Transactions +
##   L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
##   Instructions.Issued + Issue.Slots + Eligible.Warps.Per.Active.Cycle +
##   FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
##   fb_subp0_write_sectors + fb_subp1_write_sectors + inst_issued1 +
##   inst_issued2 + Grid.X + Block.X
##
##
##           Df Sum of Sq      RSS      AIC
## - Instructions.Issued      1 0.00000000 0.0016855 -4417.0
## - Issue.Slots              1 0.00000003 0.0016855 -4417.0
## - inst_issued2             1 0.00000004 0.0016855 -4416.9
## - inst_issued1             1 0.00000022 0.0016857 -4416.9
## - fb_subp0_write_sectors    1 0.00000041 0.0016859 -4416.9
## - Issued.Control.Flow.Instructions 1 0.00000078 0.0016863 -4416.8
## - Global.Load.Transactions.Per.Request 1 0.00000089 0.0016864 -4416.8
## - Shared.Load.Transactions  1 0.00000130 0.0016868 -4416.7
## - Global.Hit.Rate           1 0.00000159 0.0016871 -4416.6
## - Global.Load.Transactions  1 0.00000167 0.0016872 -4416.6
## - L2.Write.Transactions     1 0.00000241 0.0016879 -4416.4
## - fb_subp1_write_sectors    1 0.00000335 0.0016888 -4416.2
## - Issue.Slot.Utilization    1 0.00000421 0.0016897 -4416.1
## - Issued.IPC               1 0.00000447 0.0016900 -4416.0
## - Device.Memory.Write.Transactions 1 0.00000686 0.0016923 -4415.5
## - Block.X                  1 0.00000754 0.0016930 -4415.3
## <none>                      0.0016855 -4415.0
## - Eligible.Warps.Per.Active.Cycle 1 0.00001218 0.0016977 -4414.3

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## - FLOP.Efficiency.Peak.Single.      1 0.00001255 0.0016980 -4414.3
## - Grid.X                            1 0.00001531 0.0017008 -4413.7
## - L2                                1 0.00005875 0.0017442 -4404.5
## - Input.Size                        1 0.00007144 0.0017569 -4401.8
## - Bus                               1 0.00010998 0.0017955 -4393.9
## - Memoryclock                       1 0.00011241 0.0017979 -4393.5
## - L2.Read.Transactions              1 0.00011526 0.0018008 -4392.9
## - fb_subp0_read_sectors             1 0.00018160 0.0018671 -4379.7
## - fb_subp1_read_sectors             1 0.00029426 0.0019798 -4358.4
## - Device.Memory.Read.Transactions   1 0.00073430 0.0024198 -4285.3
##
## Step: AIC=-4416.96
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Input.Size +
##   Issued.IPC + Issue.Slot.Utilization + Global.Load.Transactions.Per.Request +
##   Shared.Load.Transactions + Global.Load.Transactions + Device.Memory.Read.Transactions +
##   Device.Memory.Write.Transactions + L2.Read.Transactions +
##   L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
##   Issue.Slots + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##   fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##   fb_subp1_write_sectors + inst_issued1 + inst_issued2 + Grid.X +
##   Block.X
##
##                                     Df Sum of Sq      RSS      AIC
## - inst_issued2                     1 0.00000004 0.0016855 -4418.9
## - inst_issued1                     1 0.00000023 0.0016857 -4418.9
## - fb_subp0_write_sectors            1 0.00000041 0.0016859 -4418.9
## - Global.Load.Transactions.Per.Request 1 0.00000092 0.0016864 -4418.8
## - Shared.Load.Transactions          1 0.00000130 0.0016868 -4418.7
## - Issued.Control.Flow.Instructions  1 0.00000157 0.0016871 -4418.6
## - Global.Hit.Rate                   1 0.00000161 0.0016871 -4418.6
## - Global.Load.Transactions          1 0.00000167 0.0016872 -4418.6
## - L2.Write.Transactions             1 0.00000241 0.0016879 -4418.4
## - fb_subp1_write_sectors            1 0.00000336 0.0016888 -4418.2
## - Issue.Slots                      1 0.00000380 0.0016893 -4418.1
## - Issue.Slot.Utilization            1 0.00000424 0.0016897 -4418.0
## - Issued.IPC                      1 0.00000451 0.0016900 -4418.0
## - Device.Memory.Write.Transactions  1 0.00000687 0.0016924 -4417.5
## - Block.X                          1 0.00000771 0.0016932 -4417.3
## <none>                             0.0016855 -4417.0
## - Eligible.Warps.Per.Active.Cycle  1 0.00001231 0.0016978 -4416.3
## - FLOP.Efficiency.Peak.Single.     1 0.00001255 0.0016980 -4416.3
## - Grid.X                           1 0.00001532 0.0017008 -4415.7
## - L2                                1 0.00005878 0.0017443 -4406.5
## - Input.Size                       1 0.00007147 0.0017570 -4403.8
## - Bus                               1 0.00010999 0.0017955 -4395.9
## - Memoryclock                       1 0.00011245 0.0017979 -4395.4
## - L2.Read.Transactions              1 0.00011527 0.0018008 -4394.9
## - fb_subp0_read_sectors             1 0.00018161 0.0018671 -4381.7
## - fb_subp1_read_sectors             1 0.00029429 0.0019798 -4360.4
## - Device.Memory.Read.Transactions   1 0.00073434 0.0024198 -4287.3
##
## Step: AIC=-4418.95
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Input.Size +
##   Issued.IPC + Issue.Slot.Utilization + Global.Load.Transactions.Per.Request +

```

```

## Shared.Load.Transactions + Global.Load.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
## Issue.Slots + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + inst_issued1 + Grid.X + Block.X
##
##
## Df Sum of Sq RSS AIC
## - fb_subp0_write_sectors 1 0.00000040 0.0016859 -4420.9
## - inst_issued1 1 0.00000047 0.0016860 -4420.8
## - Global.Load.Transactions.Per.Request 1 0.00000101 0.0016865 -4420.7
## - Shared.Load.Transactions 1 0.00000130 0.0016868 -4420.7
## - Global.Hit.Rate 1 0.00000158 0.0016871 -4420.6
## - Global.Load.Transactions 1 0.00000169 0.0016872 -4420.6
## - L2.Write.Transactions 1 0.00000244 0.0016880 -4420.4
## - fb_subp1_write_sectors 1 0.00000334 0.0016889 -4420.2
## - Issue.Slots 1 0.00000389 0.0016894 -4420.1
## - Issue.Slot.Utilization 1 0.00000427 0.0016898 -4420.0
## - Issued.IPC 1 0.00000454 0.0016901 -4420.0
## - Device.Memory.Write.Transactions 1 0.00000683 0.0016924 -4419.5
## - Issued.Control.Flow.Instructions 1 0.00000685 0.0016924 -4419.5
## - Block.X 1 0.00000767 0.0016932 -4419.3
## <none> 0.0016855 -4418.9
## - FLOP.Efficiency.Peak.Single. 1 0.00001256 0.0016981 -4418.2
## - Eligible.Warps.Per.Active.Cycle 1 0.00001259 0.0016981 -4418.2
## - Grid.X 1 0.00001534 0.0017009 -4417.7
## - L2 1 0.00005882 0.0017444 -4408.5
## - Input.Size 1 0.00007160 0.0017571 -4405.8
## - Bus 1 0.00010999 0.0017955 -4397.9
## - Memoryclock 1 0.00011279 0.0017983 -4397.4
## - L2.Read.Transactions 1 0.00011523 0.0018008 -4396.9
## - fb_subp0_read_sectors 1 0.00018158 0.0018671 -4383.7
## - fb_subp1_read_sectors 1 0.00029426 0.0019798 -4362.4
## - Device.Memory.Read.Transactions 1 0.00073564 0.0024212 -4289.1
##
## Step: AIC=-4420.86
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Input.Size +
## Issued.IPC + Issue.Slot.Utilization + Global.Load.Transactions.Per.Request +
## Shared.Load.Transactions + Global.Load.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
## Issue.Slots + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp1_write_sectors +
## inst_issued1 + Grid.X + Block.X
##
##
## Df Sum of Sq RSS AIC
## - inst_issued1 1 0.00000053 0.0016865 -4422.7
## - Global.Load.Transactions.Per.Request 1 0.00000098 0.0016869 -4422.7
## - Shared.Load.Transactions 1 0.00000132 0.0016872 -4422.6
## - Global.Hit.Rate 1 0.00000158 0.0016875 -4422.5
## - Global.Load.Transactions 1 0.00000164 0.0016876 -4422.5
## - L2.Write.Transactions 1 0.00000242 0.0016883 -4422.3
## - Issue.Slots 1 0.00000395 0.0016899 -4422.0
## - Issue.Slot.Utilization 1 0.00000512 0.0016910 -4421.8

```

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## - Issued.IPC 1 0.00000542 0.0016914 -4421.7
## - Issued.Control.Flow.Instructions 1 0.00000720 0.0016931 -4421.3
## - Block.X 1 0.00000782 0.0016938 -4421.2
## - Device.Memory.Write.Transactions 1 0.00000825 0.0016942 -4421.1
## <none> 0.0016859 -4420.9
## - FLOP.Efficiency.Peak.Single. 1 0.00001221 0.0016982 -4420.2
## - Eligible.Warps.Per.Active.Cycle 1 0.00001294 0.0016989 -4420.1
## - Grid.X 1 0.00001573 0.0017017 -4419.5
## - fb_subp1_write_sectors 1 0.00002112 0.0017071 -4418.3
## - L2 1 0.00005844 0.0017444 -4410.5
## - Input.Size 1 0.00007173 0.0017577 -4407.7
## - Bus 1 0.00011002 0.0017959 -4399.9
## - Memoryclock 1 0.00011384 0.0017998 -4399.1
## - L2.Read.Transactions 1 0.00011956 0.0018055 -4397.9
## - fb_subp0_read_sectors 1 0.00018193 0.0018679 -4385.6
## - fb_subp1_read_sectors 1 0.00030218 0.0019881 -4362.9
## - Device.Memory.Read.Transactions 1 0.00073540 0.0024213 -4291.1
##
## Step: AIC=-4422.75
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Input.Size +
## Issued.IPC + Issue.Slot.Utilization + Global.Load.Transactions.Per.Request +
## Shared.Load.Transactions + Global.Load.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
## Issue.Slots + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp1_write_sectors +
## Grid.X + Block.X
##
## Df Sum of Sq RSS AIC
## - Global.Load.Transactions.Per.Request 1 0.00000081 0.0016873 -4424.6
## - Shared.Load.Transactions 1 0.00000117 0.0016876 -4424.5
## - Global.Load.Transactions 1 0.00000160 0.0016881 -4424.4
## - Global.Hit.Rate 1 0.00000173 0.0016882 -4424.4
## - L2.Write.Transactions 1 0.00000236 0.0016888 -4424.2
## - Issue.Slot.Utilization 1 0.00000471 0.0016912 -4423.7
## - Issued.IPC 1 0.00000500 0.0016915 -4423.7
## - Issued.Control.Flow.Instructions 1 0.00000755 0.0016940 -4423.1
## - Device.Memory.Write.Transactions 1 0.00000785 0.0016943 -4423.1
## - Block.X 1 0.00000795 0.0016944 -4423.0
## - Issue.Slots 1 0.00000836 0.0016948 -4422.9
## <none> 0.0016865 -4422.7
## - Eligible.Warps.Per.Active.Cycle 1 0.00001270 0.0016992 -4422.0
## - FLOP.Efficiency.Peak.Single. 1 0.00001390 0.0017004 -4421.8
## - Grid.X 1 0.00001555 0.0017020 -4421.4
## - fb_subp1_write_sectors 1 0.00002126 0.0017077 -4420.2
## - L2 1 0.00005870 0.0017452 -4412.3
## - Input.Size 1 0.00007171 0.0017582 -4409.6
## - Bus 1 0.00010977 0.0017962 -4401.8
## - Memoryclock 1 0.00011612 0.0018026 -4400.5
## - L2.Read.Transactions 1 0.00011903 0.0018055 -4399.9
## - fb_subp0_read_sectors 1 0.00018161 0.0018681 -4387.5
## - fb_subp1_read_sectors 1 0.00030240 0.0019889 -4364.7
## - Device.Memory.Read.Transactions 1 0.00073650 0.0024230 -4292.8
##

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```

## Step: AIC=-4424.57
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Input.Size +
## Issued.IPC + Issue.Slot.Utilization + Shared.Load.Transactions +
## Global.Load.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
## Issue.Slots + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp1_write_sectors +
## Grid.X + Block.X
##
##
## Df Sum of Sq RSS AIC
## - Shared.Load.Transactions 1 0.00000114 0.0016884 -4426.3
## - Global.Load.Transactions 1 0.00000137 0.0016887 -4426.3
## - L2.Write.Transactions 1 0.00000228 0.0016895 -4426.1
## - Issue.Slot.Utilization 1 0.00000397 0.0016913 -4425.7
## - Issued.IPC 1 0.00000431 0.0016916 -4425.6
## - Device.Memory.Write.Transactions 1 0.00000734 0.0016946 -4425.0
## - Issued.Control.Flow.Instructions 1 0.00000739 0.0016947 -4425.0
## - Global.Hit.Rate 1 0.00000775 0.0016950 -4424.9
## - Issue.Slots 1 0.00000838 0.0016957 -4424.8
## <none> 0.0016873 -4424.6
## - Block.X 1 0.00001255 0.0016998 -4423.9
## - FLOP.Efficiency.Peak.Single. 1 0.00001551 0.0017028 -4423.2
## - Eligible.Warps.Per.Active.Cycle 1 0.00001734 0.0017046 -4422.9
## - Grid.X 1 0.00001898 0.0017063 -4422.5
## - fb_subp1_write_sectors 1 0.00002128 0.0017086 -4422.0
## - L2 1 0.00006131 0.0017486 -4413.6
## - Input.Size 1 0.00008513 0.0017724 -4408.7
## - Bus 1 0.00011162 0.0017989 -4403.3
## - L2.Read.Transactions 1 0.00012429 0.0018116 -4400.7
## - Memoryclock 1 0.00013141 0.0018187 -4399.3
## - fb_subp0_read_sectors 1 0.00018108 0.0018683 -4389.5
## - fb_subp1_read_sectors 1 0.00030164 0.0019889 -4366.7
## - Device.Memory.Read.Transactions 1 0.00075005 0.0024373 -4292.7
##
## Step: AIC=-4426.33
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Input.Size +
## Issued.IPC + Issue.Slot.Utilization + Global.Load.Transactions +
## Device.Memory.Read.Transactions + Device.Memory.Write.Transactions +
## L2.Read.Transactions + L2.Write.Transactions + Global.Hit.Rate +
## Issued.Control.Flow.Instructions + Issue.Slots + Eligible.Warps.Per.Active.Cycle +
## FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
## fb_subp1_write_sectors + Grid.X + Block.X
##
##
## Df Sum of Sq RSS AIC
## - Global.Load.Transactions 1 0.00000139 0.0016898 -4428.0
## - L2.Write.Transactions 1 0.00000229 0.0016907 -4427.8
## - Issue.Slot.Utilization 1 0.00000395 0.0016924 -4427.5
## - Issued.IPC 1 0.00000429 0.0016927 -4427.4
## - Issued.Control.Flow.Instructions 1 0.00000726 0.0016957 -4426.8
## - Device.Memory.Write.Transactions 1 0.00000742 0.0016958 -4426.7
## - Global.Hit.Rate 1 0.00000751 0.0016959 -4426.7
## - Issue.Slots 1 0.00000825 0.0016967 -4426.6
## <none> 0.0016884 -4426.3

```

```

## - Block.X 1 0.00001231 0.0017007 -4425.7
## - FLOP.Efficiency.Peak.Single. 1 0.00001579 0.0017042 -4424.9
## - Eligible.Warps.Per.Active.Cycle 1 0.00001728 0.0017057 -4424.6
## - Grid.X 1 0.00001880 0.0017072 -4424.3
## - fb_subp1_write_sectors 1 0.00002041 0.0017088 -4424.0
## - L2 1 0.00006244 0.0017508 -4415.1
## - Input.Size 1 0.00008461 0.0017730 -4410.5
## - Bus 1 0.00011257 0.0018010 -4404.8
## - L2.Read.Transactions 1 0.00012378 0.0018122 -4402.6
## - Memoryclock 1 0.00013223 0.0018206 -4400.9
## - fb_subp0_read_sectors 1 0.00018644 0.0018748 -4390.2
## - fb_subp1_read_sectors 1 0.00030057 0.0019890 -4368.7
## - Device.Memory.Read.Transactions 1 0.00074906 0.0024375 -4294.7
##
## Step: AIC=-4428.03
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Input.Size +
## Issued.IPC + Issue.Slot.Utilization + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
## Issue.Slots + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp1_write_sectors +
## Grid.X + Block.X
##
## Df Sum of Sq RSS AIC
## - Issue.Slot.Utilization 1 0.00000423 0.0016940 -4429.1
## - Issued.IPC 1 0.00000458 0.0016944 -4429.0
## - L2.Write.Transactions 1 0.00000681 0.0016966 -4428.6
## - Global.Hit.Rate 1 0.00000699 0.0016968 -4428.5
## - Issued.Control.Flow.Instructions 1 0.00000709 0.0016969 -4428.5
## - Device.Memory.Write.Transactions 1 0.00000751 0.0016973 -4428.4
## - Issue.Slots 1 0.00000807 0.0016979 -4428.3
## <none> 0.0016898 -4428.0
## - Block.X 1 0.00001212 0.0017019 -4427.4
## - FLOP.Efficiency.Peak.Single. 1 0.00001572 0.0017055 -4426.7
## - Eligible.Warps.Per.Active.Cycle 1 0.00001824 0.0017080 -4426.1
## - Grid.X 1 0.00001882 0.0017086 -4426.0
## - fb_subp1_write_sectors 1 0.00002026 0.0017101 -4425.7
## - L2 1 0.00006180 0.0017516 -4417.0
## - Input.Size 1 0.00008585 0.0017756 -4412.0
## - Bus 1 0.00011165 0.0018015 -4406.7
## - L2.Read.Transactions 1 0.00012239 0.0018122 -4404.6
## - Memoryclock 1 0.00013146 0.0018213 -4402.8
## - fb_subp0_read_sectors 1 0.00018665 0.0018764 -4391.9
## - fb_subp1_read_sectors 1 0.00030059 0.0019904 -4370.4
## - Device.Memory.Read.Transactions 1 0.00074906 0.0024389 -4296.5
##
## Step: AIC=-4429.12
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Input.Size +
## Issued.IPC + Device.Memory.Read.Transactions + Device.Memory.Write.Transactions +
## L2.Read.Transactions + L2.Write.Transactions + Global.Hit.Rate +
## Issued.Control.Flow.Instructions + Issue.Slots + Eligible.Warps.Per.Active.Cycle +
## FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
## fb_subp1_write_sectors + Grid.X + Block.X
##

```



```

##                               Df Sum of Sq      RSS      AIC
## - Device.Memory.Write.Transactions 1 0.00000405 0.0016981 -4430.3
## - L2.Write.Transactions            1 0.00000460 0.0016986 -4430.1
## - Global.Hit.Rate                  1 0.00000726 0.0017013 -4429.6
## - Issued.Control.Flow.Instructions 1 0.00000854 0.0017026 -4429.3
## <none>                             0.0016940 -4429.1
## - Issue.Slots                      1 0.00000946 0.0017035 -4429.1
## - Block.X                          1 0.00000947 0.0017035 -4429.1
## - Issued.IPC                       1 0.00001429 0.0017083 -4428.1
## - Eligible.Warps.Per.Active.Cycle 1 0.00001478 0.0017088 -4428.0
## - Grid.X                           1 0.00001725 0.0017113 -4427.4
## - fb_subp1_write_sectors           1 0.00002107 0.0017151 -4426.6
## - FLOP.Efficiency.Peak.Single.     1 0.00002868 0.0017227 -4425.0
## - L2                               1 0.00006194 0.0017560 -4418.0
## - Input.Size                       1 0.00009557 0.0017896 -4411.1
## - Bus                              1 0.00011515 0.0018092 -4407.2
## - L2.Read.Transactions             1 0.00011869 0.0018127 -4406.5
## - Memoryclock                     1 0.00013784 0.0018319 -4402.6
## - fb_subp0_read_sectors            1 0.00018442 0.0018785 -4393.5
## - fb_subp1_read_sectors            1 0.00030128 0.0019953 -4371.5
## - Device.Memory.Read.Transactions 1 0.00076773 0.0024617 -4295.1
##
## Step: AIC=-4430.25
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Input.Size +
##   Issued.IPC + Device.Memory.Read.Transactions + L2.Read.Transactions +
##   L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
##   Issue.Slots + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##   fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp1_write_sectors +
##   Grid.X + Block.X
##
##                               Df Sum of Sq      RSS      AIC
## - L2.Write.Transactions            1 0.00000444 0.0017025 -4431.3
## - Global.Hit.Rate                  1 0.00000699 0.0017051 -4430.8
## - Issued.Control.Flow.Instructions 1 0.00000753 0.0017056 -4430.6
## - Issue.Slots                      1 0.00000821 0.0017063 -4430.5
## <none>                             0.0016981 -4430.3
## - Block.X                          1 0.00000948 0.0017076 -4430.2
## - Issued.IPC                       1 0.00001263 0.0017107 -4429.6
## - Eligible.Warps.Per.Active.Cycle 1 0.00001556 0.0017136 -4428.9
## - Grid.X                           1 0.00001575 0.0017138 -4428.9
## - fb_subp1_write_sectors           1 0.00002000 0.0017181 -4428.0
## - FLOP.Efficiency.Peak.Single.     1 0.00002563 0.0017237 -4426.8
## - L2                               1 0.00007251 0.0017706 -4417.0
## - Input.Size                       1 0.00009155 0.0017896 -4413.1
## - L2.Read.Transactions             1 0.00011795 0.0018160 -4407.8
## - Bus                              1 0.00013948 0.0018376 -4403.5
## - Memoryclock                     1 0.00018266 0.0018807 -4395.1
## - fb_subp0_read_sectors            1 0.00018496 0.0018830 -4394.6
## - fb_subp1_read_sectors            1 0.00029735 0.0019954 -4373.5
## - Device.Memory.Read.Transactions 1 0.00078711 0.0024852 -4293.6
##
## Step: AIC=-4431.3
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Input.Size +
##   Issued.IPC + Device.Memory.Read.Transactions + L2.Read.Transactions +

```

```

##      Global.Hit.Rate + Issued.Control.Flow.Instructions + Issue.Slots +
##      Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##      fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp1_write_sectors +
##      Grid.X + Block.X
##
##
##      Df  Sum of Sq      RSS      AIC
## - Issued.Control.Flow.Instructions  1 0.00000560 0.0017081 -4432.1
## - Issue.Slots                        1 0.00000620 0.0017087 -4432.0
## - Block.X                           1 0.00000832 0.0017108 -4431.5
## - Global.Hit.Rate                   1 0.00000850 0.0017110 -4431.5
## <none>                             0.0017025 -4431.3
## - Issued.IPC                       1 0.00001026 0.0017128 -4431.1
## - Grid.X                           1 0.00001207 0.0017146 -4430.7
## - Eligible.Warps.Per.Active.Cycle  1 0.00001284 0.0017154 -4430.6
## - fb_subp1_write_sectors            1 0.00002049 0.0017230 -4428.9
## - FLOP.Efficiency.Peak.Single.      1 0.00002397 0.0017265 -4428.2
## - L2                                1 0.00007648 0.0017790 -4417.3
## - Input.Size                        1 0.00008711 0.0017896 -4415.1
## - L2.Read.Transactions              1 0.00013843 0.0018410 -4404.8
## - Bus                               1 0.00014432 0.0018468 -4403.7
## - fb_subp0_read_sectors             1 0.00018240 0.0018849 -4396.3
## - Memoryclock                      1 0.00019301 0.0018955 -4394.2
## - fb_subp1_read_sectors             1 0.00029837 0.0020009 -4374.5
## - Device.Memory.Read.Transactions  1 0.00078615 0.0024887 -4295.1
##
## Step: AIC=-4432.11
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Input.Size +
##      Issued.IPC + Device.Memory.Read.Transactions + L2.Read.Transactions +
##      Global.Hit.Rate + Issue.Slots + Eligible.Warps.Per.Active.Cycle +
##      FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
##      fb_subp1_write_sectors + Grid.X + Block.X
##
##
##      Df  Sum of Sq      RSS      AIC
## - Global.Hit.Rate                   1 0.00000447 0.0017126 -4433.2
## - Block.X                           1 0.00000495 0.0017131 -4433.1
## - Grid.X                           1 0.00000876 0.0017169 -4432.2
## <none>                             0.0017081 -4432.1
## - Issued.IPC                       1 0.00001972 0.0017278 -4429.9
## - fb_subp1_write_sectors            1 0.00002139 0.0017295 -4429.6
## - Eligible.Warps.Per.Active.Cycle  1 0.00002505 0.0017332 -4428.8
## - FLOP.Efficiency.Peak.Single.      1 0.00003953 0.0017476 -4425.8
## - Input.Size                        1 0.00008311 0.0017912 -4416.8
## - L2                                1 0.00009629 0.0018044 -4414.1
## - L2.Read.Transactions              1 0.00013290 0.0018410 -4406.8
## - Bus                               1 0.00015263 0.0018607 -4403.0
## - fb_subp0_read_sectors             1 0.00017950 0.0018876 -4397.7
## - Memoryclock                      1 0.00023795 0.0019461 -4386.6
## - fb_subp1_read_sectors             1 0.00030172 0.0020098 -4374.9
## - Device.Memory.Read.Transactions  1 0.00078557 0.0024937 -4296.4
## - Issue.Slots                      1 0.00098526 0.0026934 -4268.3
##
## Step: AIC=-4433.15
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Input.Size +
##      Issued.IPC + Device.Memory.Read.Transactions + L2.Read.Transactions +

```

```

##      Issue.Slots + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##      fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp1_write_sectors +
##      Grid.X + Block.X
##
##
##      Df  Sum of Sq      RSS      AIC
## - Block.X      1 0.00000051 0.0017131 -4435.0
## - Grid.X       1 0.00000449 0.0017171 -4434.2
## <none>                0.0017126 -4433.2
## - Issued.IPC      1 0.00001591 0.0017285 -4431.8
## - fb_subp1_write_sectors 1 0.00002044 0.0017330 -4430.8
## - Eligible.Warps.Per.Active.Cycle 1 0.00002124 0.0017338 -4430.7
## - FLOP.Efficiency.Peak.Single. 1 0.00003711 0.0017497 -4427.3
## - Input.Size     1 0.00008503 0.0017976 -4417.5
## - L2             1 0.00010083 0.0018134 -4414.3
## - Bus            1 0.00015674 0.0018693 -4403.3
## - fb_subp0_read_sectors 1 0.00017962 0.0018922 -4398.8
## - L2.Read.Transactions 1 0.00018888 0.0019015 -4397.1
## - Memoryclock    1 0.00024839 0.0019610 -4385.9
## - fb_subp1_read_sectors 1 0.00029848 0.0020111 -4376.7
## - Device.Memory.Read.Transactions 1 0.00078366 0.0024963 -4298.0
## - Issue.Slots    1 0.00098395 0.0026965 -4269.9
##
## Step:  AIC=-4435.04
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Input.Size +
##      Issued.IPC + Device.Memory.Read.Transactions + L2.Read.Transactions +
##      Issue.Slots + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##      fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp1_write_sectors +
##      Grid.X
##
##
##      Df  Sum of Sq      RSS      AIC
## - Grid.X      1 0.00000400 0.0017171 -4436.2
## <none>                0.0017131 -4435.0
## - fb_subp1_write_sectors 1 0.00002000 0.0017331 -4432.8
## - Issued.IPC      1 0.00002237 0.0017355 -4432.3
## - Eligible.Warps.Per.Active.Cycle 1 0.00003450 0.0017476 -4429.8
## - FLOP.Efficiency.Peak.Single. 1 0.00003719 0.0017503 -4429.2
## - Input.Size     1 0.00008490 0.0017980 -4419.4
## - L2             1 0.00010138 0.0018145 -4416.1
## - Bus            1 0.00015658 0.0018697 -4405.2
## - fb_subp0_read_sectors 1 0.00018076 0.0018939 -4400.5
## - L2.Read.Transactions 1 0.00019426 0.0019074 -4397.9
## - Memoryclock    1 0.00025033 0.0019634 -4387.4
## - fb_subp1_read_sectors 1 0.00029948 0.0020126 -4378.4
## - Device.Memory.Read.Transactions 1 0.00078451 0.0024976 -4299.8
## - Issue.Slots    1 0.00099235 0.0027054 -4270.7
##
## Step:  AIC=-4436.2
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Input.Size +
##      Issued.IPC + Device.Memory.Read.Transactions + L2.Read.Transactions +
##      Issue.Slots + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##      fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp1_write_sectors
##
##
##      Df  Sum of Sq      RSS      AIC
## <none>                0.0017171 -4436.2

```

```

## - fb_subp1_write_sectors      1 0.00001904 0.0017361 -4434.2
## - Issued.IPC                  1 0.00003068 0.0017478 -4431.7
## - FLOP.Efficiency.Peak.Single. 1 0.00003980 0.0017569 -4429.9
## - Eligible.Warps.Per.Active.Cycle 1 0.00005230 0.0017694 -4427.3
## - Input.Size                  1 0.00008310 0.0018002 -4421.0
## - L2                          1 0.00010380 0.0018209 -4416.8
## - Bus                         1 0.00016122 0.0018783 -4405.5
## - fb_subp0_read_sectors       1 0.00018232 0.0018994 -4401.5
## - Memoryclock                 1 0.00025573 0.0019728 -4387.7
## - fb_subp1_read_sectors       1 0.00029658 0.0020137 -4380.2
## - L2.Read.Transactions        1 0.00033483 0.0020519 -4373.4
## - Device.Memory.Read.Transactions 1 0.00078395 0.0025010 -4301.3
## - Issue.Slots                 1 0.00099594 0.0027130 -4271.7
## Start: AIC=-5013.54
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
## Control.Flow.Instructions + Misc.Instructions + Eligible.Warps.Per.Active.Cycle +
## FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
## fb_subp0_write_sectors + fb_subp1_write_sectors + warps_launched +
## inst_executed + inst_issued1 + inst_issued2 + gld_inst_32bit +
## gst_inst_32bit + Grid.X + Block.X
##
##
## Step: AIC=-5013.54
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
## Control.Flow.Instructions + Misc.Instructions + Eligible.Warps.Per.Active.Cycle +
## FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
## fb_subp0_write_sectors + fb_subp1_write_sectors + warps_launched +
## inst_executed + inst_issued1 + inst_issued2 + gld_inst_32bit +
## Grid.X + Block.X
##
##
## Step: AIC=-5013.54

```

```

## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##   Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##   Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##   Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##   Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
##   Global.Store.Transactions + Device.Memory.Read.Transactions +
##   Device.Memory.Write.Transactions + L2.Read.Transactions +
##   L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
##   Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##   Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
##   Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
##   Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
##   Control.Flow.Instructions + Misc.Instructions + Eligible.Warps.Per.Active.Cycle +
##   FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
##   fb_subp0_write_sectors + fb_subp1_write_sectors + warps_launched +
##   inst_executed + inst_issued1 + inst_issued2 + Grid.X + Block.X
##
##
## Step: AIC=-5013.54
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##   Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##   Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##   Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##   Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
##   Global.Store.Transactions + Device.Memory.Read.Transactions +
##   Device.Memory.Write.Transactions + L2.Read.Transactions +
##   L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
##   Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##   Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
##   Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
##   Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
##   Control.Flow.Instructions + Misc.Instructions + Eligible.Warps.Per.Active.Cycle +
##   FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
##   fb_subp0_write_sectors + fb_subp1_write_sectors + warps_launched +
##   inst_executed + inst_issued1 + Grid.X + Block.X
##
##
## Step: AIC=-5013.54
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##   Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##   Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##   Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##   Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
##   Global.Store.Transactions + Device.Memory.Read.Transactions +
##   Device.Memory.Write.Transactions + L2.Read.Transactions +
##   L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
##   Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##   Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
##   Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
##   Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
##   Control.Flow.Instructions + Misc.Instructions + Eligible.Warps.Per.Active.Cycle +
##   FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
##   fb_subp0_write_sectors + fb_subp1_write_sectors + warps_launched +
##   inst_issued1 + Grid.X + Block.X

```

```

##
##
## Step: AIC=-5013.54
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
## Control.Flow.Instructions + Misc.Instructions + Eligible.Warps.Per.Active.Cycle +
## FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
## fb_subp0_write_sectors + fb_subp1_write_sectors + inst_issued1 +
## Grid.X + Block.X
##
##
## Step: AIC=-5013.54
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
## Control.Flow.Instructions + Eligible.Warps.Per.Active.Cycle +
## FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
## fb_subp0_write_sectors + fb_subp1_write_sectors + inst_issued1 +
## Grid.X + Block.X
##
##
## Step: AIC=-5013.54
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +

```

```

##      fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##      fb_subp1_write_sectors + inst_issued1 + Grid.X + Block.X
##
##
## Step:  AIC=-5013.54
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##      Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##      Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
##      Global.Store.Transactions + Device.Memory.Read.Transactions +
##      Device.Memory.Write.Transactions + L2.Read.Transactions +
##      L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
##      Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##      Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
##      Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
##      Instructions.Issued + Issue.Slots + Eligible.Warps.Per.Active.Cycle +
##      FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
##      fb_subp0_write_sectors + fb_subp1_write_sectors + inst_issued1 +
##      Grid.X + Block.X
##
##
## Step:  AIC=-5013.54
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##      Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##      Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
##      Global.Store.Transactions + Device.Memory.Read.Transactions +
##      Device.Memory.Write.Transactions + L2.Read.Transactions +
##      L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
##      Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##      Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
##      Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
##      Instructions.Issued + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##      fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##      fb_subp1_write_sectors + inst_issued1 + Grid.X + Block.X
##
##
## Step:  AIC=-5013.54
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##      Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##      Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
##      Global.Store.Transactions + Device.Memory.Read.Transactions +
##      Device.Memory.Write.Transactions + L2.Read.Transactions +
##      L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
##      Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##      Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
##      Floating.Point.Operations.Single.Precision.FMA. + Instructions.Issued +
##      Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##      fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##      fb_subp1_write_sectors + inst_issued1 + Grid.X + Block.X

```

```

##
##
## Step: AIC=-5013.54
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Instructions.Issued + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + inst_issued1 + Grid.X + Block.X
##
##
## Step: AIC=-5013.54
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Instructions.Issued +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + inst_issued1 + Grid.X + Block.X
##
##
## Step: AIC=-5013.54
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Instructions.Issued + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + inst_issued1 + Grid.X + Block.X
##
##
## Step: AIC=-5013.54
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +

```



```

## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Instructions.Issued +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + inst_issued1 + Grid.X + Block.X
##
##
## Step: AIC=-5013.54
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
## Instructions.Issued + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + inst_issued1 + Grid.X + Block.X
##
##
## Step: AIC=-5013.54
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Global.Hit.Rate + Instructions.Issued +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + inst_issued1 + Grid.X + Block.X
##
##
## Step: AIC=-5013.54
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Instructions.Issued + Eligible.Warps.Per.Active.Cycle +
## FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
## fb_subp0_write_sectors + fb_subp1_write_sectors + inst_issued1 +
## Grid.X + Block.X
##
##
## Step: AIC=-5013.54
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +

```

```

##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##      Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##      Shared.Load.Transactions + Global.Load.Transactions + Global.Store.Transactions +
##      Device.Memory.Read.Transactions + Device.Memory.Write.Transactions +
##      L2.Read.Transactions + L2.Write.Transactions + Instructions.Issued +
##      Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##      fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##      fb_subp1_write_sectors + inst_issued1 + Grid.X + Block.X
##
##
## Step:  AIC=-5013.54
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##      Global.Store.Transactions.Per.Request + Shared.Load.Transactions +
##      Global.Load.Transactions + Global.Store.Transactions + Device.Memory.Read.Transactions +
##      Device.Memory.Write.Transactions + L2.Read.Transactions +
##      L2.Write.Transactions + Instructions.Issued + Eligible.Warps.Per.Active.Cycle +
##      FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
##      fb_subp0_write_sectors + fb_subp1_write_sectors + inst_issued1 +
##      Grid.X + Block.X
##
##
## Step:  AIC=-5013.54
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##      Shared.Load.Transactions + Global.Load.Transactions + Global.Store.Transactions +
##      Device.Memory.Read.Transactions + Device.Memory.Write.Transactions +
##      L2.Read.Transactions + L2.Write.Transactions + Instructions.Issued +
##      Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##      fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##      fb_subp1_write_sectors + inst_issued1 + Grid.X + Block.X
##
##
## Step:  AIC=-5013.54
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Global.Store.Transactions.Per.Request + Shared.Load.Transactions +
##      Global.Load.Transactions + Global.Store.Transactions + Device.Memory.Read.Transactions +
##      Device.Memory.Write.Transactions + L2.Read.Transactions +
##      L2.Write.Transactions + Instructions.Issued + Eligible.Warps.Per.Active.Cycle +
##      FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
##      fb_subp0_write_sectors + fb_subp1_write_sectors + inst_issued1 +
##      Grid.X + Block.X
##
##
## Step:  AIC=-5013.54
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Issue.Slot.Utilization + Global.Store.Transactions.Per.Request +
##      Shared.Load.Transactions + Global.Load.Transactions + Global.Store.Transactions +
##      Device.Memory.Read.Transactions + Device.Memory.Write.Transactions +
##      L2.Read.Transactions + L2.Write.Transactions + Instructions.Issued +

```

```

## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + inst_issued1 + Grid.X + Block.X
##
##
## Step: AIC=-5013.54
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Input.Size +
## Issued.IPC + Issue.Slot.Utilization + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Global.Load.Transactions + Global.Store.Transactions +
## Device.Memory.Read.Transactions + Device.Memory.Write.Transactions +
## L2.Read.Transactions + L2.Write.Transactions + Instructions.Issued +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + inst_issued1 + Grid.X + Block.X
##
##
## Df Sum of Sq RSS AIC
## - L2.Write.Transactions 1 0.0000e+00 0.00033091 -5015.5
## - Global.Load.Transactions 1 2.0000e-08 0.00033093 -5015.5
## - Shared.Load.Transactions 1 2.7000e-08 0.00033094 -5015.5
## - Global.Store.Transactions 1 5.6000e-08 0.00033096 -5015.5
## - inst_issued1 1 6.9000e-08 0.00033098 -5015.5
## - Instructions.Issued 1 1.1200e-07 0.00033102 -5015.4
## - Input.Size 1 2.0200e-07 0.00033111 -5015.3
## - Global.Store.Transactions.Per.Request 1 4.6800e-07 0.00033138 -5015.0
## - FLOP.Efficiency.Peak.Single. 1 4.9800e-07 0.00033141 -5015.0
## - Eligible.Warps.Per.Active.Cycle 1 9.2200e-07 0.00033183 -5014.5
## - Grid.X 1 1.0240e-06 0.00033193 -5014.4
## - Block.X 1 1.0380e-06 0.00033195 -5014.4
## - Issue.Slot.Utilization 1 1.1070e-06 0.00033202 -5014.3
## - Issued.IPC 1 1.1160e-06 0.00033202 -5014.3
## <none> 0.00033091 -5013.5
## - fb_subp0_read_sectors 1 3.3240e-06 0.00033423 -5011.9
## - Bus 1 4.0290e-06 0.00033494 -5011.1
## - L2 1 5.0510e-06 0.00033596 -5010.0
## - fb_subp0_write_sectors 1 5.1710e-06 0.00033608 -5009.9
## - Device.Memory.Write.Transactions 1 5.6990e-06 0.00033661 -5009.3
## - Memoryclock 1 7.7990e-06 0.00033871 -5007.1
## - fb_subp1_write_sectors 1 1.0256e-05 0.00034116 -5004.4
## - L2.Read.Transactions 1 2.5752e-05 0.00035666 -4988.3
## - fb_subp1_read_sectors 1 3.5046e-05 0.00036595 -4978.9
## - Device.Memory.Read.Transactions 1 6.7885e-05 0.00039879 -4947.6
##
## Step: AIC=-5015.54
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Input.Size +
## Issued.IPC + Issue.Slot.Utilization + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Global.Load.Transactions + Global.Store.Transactions +
## Device.Memory.Read.Transactions + Device.Memory.Write.Transactions +
## L2.Read.Transactions + Instructions.Issued + Eligible.Warps.Per.Active.Cycle +
## FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
## fb_subp0_write_sectors + fb_subp1_write_sectors + inst_issued1 +
## Grid.X + Block.X
##
##
## Df Sum of Sq RSS AIC
## - Global.Load.Transactions 1 2.0000e-08 0.00033093 -5017.5

```

```

## - Shared.Load.Transactions      1 2.6000e-08 0.00033094 -5017.5
## - inst_issued1                  1 7.0000e-08 0.00033098 -5017.5
## - Instructions.Issued            1 1.1100e-07 0.00033102 -5017.4
## - Input.Size                    1 2.0200e-07 0.00033111 -5017.3
## - Global.Store.Transactions.Per.Request 1 4.6800e-07 0.00033138 -5017.0
## - FLOP.Efficiency.Peak.Single.  1 5.0300e-07 0.00033141 -5017.0
## - Eligible.Warps.Per.Active.Cycle 1 9.2900e-07 0.00033184 -5016.5
## - Grid.X                        1 1.0260e-06 0.00033194 -5016.4
## - Block.X                       1 1.0470e-06 0.00033196 -5016.4
## - Issue.Slot.Utilization         1 1.1080e-06 0.00033202 -5016.3
## - Issued.IPC                    1 1.1160e-06 0.00033203 -5016.3
## <none>                          0.00033091 -5015.5
## - fb_subp0_read_sectors         1 3.3240e-06 0.00033423 -5013.9
## - Bus                           1 4.0440e-06 0.00033495 -5013.1
## - L2                            1 5.0860e-06 0.00033599 -5012.0
## - Global.Store.Transactions      1 5.1720e-06 0.00033608 -5011.9
## - fb_subp0_write_sectors         1 5.1730e-06 0.00033608 -5011.9
## - Device.Memory.Write.Transactions 1 5.6990e-06 0.00033661 -5011.3
## - Memoryclock                   1 7.8300e-06 0.00033874 -5009.0
## - fb_subp1_write_sectors         1 1.0260e-05 0.00034117 -5006.4
## - L2.Read.Transactions           1 2.5752e-05 0.00035666 -4990.3
## - fb_subp1_read_sectors          1 3.5053e-05 0.00036596 -4980.9
## - Device.Memory.Read.Transactions 1 6.7889e-05 0.00039880 -4949.6
##
## Step: AIC=-5017.52
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Input.Size +
##   Issued.IPC + Issue.Slot.Utilization + Global.Store.Transactions.Per.Request +
##   Shared.Load.Transactions + Global.Store.Transactions + Device.Memory.Read.Transactions +
##   Device.Memory.Write.Transactions + L2.Read.Transactions +
##   Instructions.Issued + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##   fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##   fb_subp1_write_sectors + inst_issued1 + Grid.X + Block.X
##
##
##              Df Sum of Sq      RSS      AIC
## - Shared.Load.Transactions      1 2.7000e-08 0.00033096 -5019.5
## - Instructions.Issued            1 9.7000e-08 0.00033103 -5019.4
## - inst_issued1                  1 1.4300e-07 0.00033107 -5019.4
## - Input.Size                    1 2.0200e-07 0.00033113 -5019.3
## - Global.Store.Transactions.Per.Request 1 4.4800e-07 0.00033138 -5019.0
## - FLOP.Efficiency.Peak.Single.  1 5.2200e-07 0.00033145 -5018.9
## - Grid.X                        1 1.0360e-06 0.00033196 -5018.4
## - Issue.Slot.Utilization         1 1.0880e-06 0.00033202 -5018.3
## - Issued.IPC                    1 1.0970e-06 0.00033203 -5018.3
## - Block.X                       1 1.4210e-06 0.00033235 -5018.0
## - Eligible.Warps.Per.Active.Cycle 1 1.5460e-06 0.00033247 -5017.8
## <none>                          0.00033093 -5017.5
## - fb_subp0_read_sectors         1 3.3390e-06 0.00033427 -5015.9
## - Bus                           1 4.0260e-06 0.00033495 -5015.1
## - Global.Store.Transactions      1 5.1660e-06 0.00033609 -5013.9
## - L2                            1 5.2350e-06 0.00033616 -5013.8
## - fb_subp0_write_sectors         1 5.3480e-06 0.00033628 -5013.7
## - Device.Memory.Write.Transactions 1 5.6790e-06 0.00033661 -5013.3
## - Memoryclock                   1 7.8230e-06 0.00033875 -5011.0
## - fb_subp1_write_sectors         1 1.0518e-05 0.00034145 -5008.1

```

```

## - L2.Read.Transactions          1 2.5748e-05 0.00035668 -4992.2
## - fb_subp1_read_sectors         1 3.5066e-05 0.00036599 -4982.9
## - Device.Memory.Read.Transactions 1 6.7986e-05 0.00039891 -4951.5
##
## Step: AIC=-5019.49
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Input.Size +
##   Issued.IPC + Issue.Slot.Utilization + Global.Store.Transactions.Per.Request +
##   Global.Store.Transactions + Device.Memory.Read.Transactions +
##   Device.Memory.Write.Transactions + L2.Read.Transactions +
##   Instructions.Issued + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##   fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##   fb_subp1_write_sectors + inst_issued1 + Grid.X + Block.X
##
##              Df Sum of Sq      RSS      AIC
## - Instructions.Issued      1 9.4000e-08 0.00033105 -5021.4
## - inst_issued1             1 1.3900e-07 0.00033110 -5021.3
## - Input.Size               1 1.9300e-07 0.00033115 -5021.3
## - Global.Store.Transactions.Per.Request 1 4.6900e-07 0.00033143 -5021.0
## - FLOP.Efficiency.Peak.Single. 1 5.3500e-07 0.00033149 -5020.9
## - Grid.X                   1 1.0130e-06 0.00033197 -5020.4
## - Issue.Slot.Utilization    1 1.1080e-06 0.00033206 -5020.3
## - Issued.IPC                1 1.1170e-06 0.00033207 -5020.3
## - Block.X                   1 1.4010e-06 0.00033236 -5019.9
## - Eligible.Warps.Per.Active.Cycle 1 1.5390e-06 0.00033250 -5019.8
## <none>                      0.00033096 -5019.5
## - fb_subp0_read_sectors     1 3.3890e-06 0.00033435 -5017.8
## - Bus                       1 4.0130e-06 0.00033497 -5017.1
## - Global.Store.Transactions 1 5.1380e-06 0.00033609 -5015.9
## - L2                         1 5.2130e-06 0.00033617 -5015.8
## - fb_subp0_write_sectors     1 5.3410e-06 0.00033630 -5015.7
## - Device.Memory.Write.Transactions 1 5.6870e-06 0.00033664 -5015.3
## - Memoryclock               1 7.8050e-06 0.00033876 -5013.0
## - fb_subp1_write_sectors     1 1.0506e-05 0.00034146 -5010.1
## - L2.Read.Transactions      1 2.5724e-05 0.00035668 -4994.2
## - fb_subp1_read_sectors      1 3.5148e-05 0.00036610 -4984.7
## - Device.Memory.Read.Transactions 1 6.8155e-05 0.00039911 -4953.3
##
## Step: AIC=-5021.38
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Input.Size +
##   Issued.IPC + Issue.Slot.Utilization + Global.Store.Transactions.Per.Request +
##   Global.Store.Transactions + Device.Memory.Read.Transactions +
##   Device.Memory.Write.Transactions + L2.Read.Transactions +
##   Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##   fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##   fb_subp1_write_sectors + inst_issued1 + Grid.X + Block.X
##
##              Df Sum of Sq      RSS      AIC
## - Input.Size               1 1.7900e-07 0.00033123 -5023.2
## - Global.Store.Transactions.Per.Request 1 5.0300e-07 0.00033155 -5022.8
## - FLOP.Efficiency.Peak.Single. 1 5.3500e-07 0.00033159 -5022.8
## - Grid.X                   1 1.0220e-06 0.00033207 -5022.3
## - Issue.Slot.Utilization    1 1.1430e-06 0.00033219 -5022.1
## - Issued.IPC                1 1.1520e-06 0.00033220 -5022.1
## - Block.X                   1 1.3360e-06 0.00033239 -5021.9

```

```
## - Eligible.Warps.Per.Active.Cycle      1 1.4550e-06 0.00033250 -5021.8
## <none>                                0.00033105 -5021.4
## - fb_subp0_read_sectors                1 3.4600e-06 0.00033451 -5019.6
## - Bus                                  1 4.0370e-06 0.00033509 -5019.0
## - inst_issued1                         1 5.0060e-06 0.00033606 -5017.9
## - Global.Store.Transactions             1 5.0910e-06 0.00033614 -5017.8
## - L2                                    1 5.2420e-06 0.00033629 -5017.7
## - fb_subp0_write_sectors               1 5.3240e-06 0.00033637 -5017.6
## - Device.Memory.Write.Transactions      1 5.6790e-06 0.00033673 -5017.2
## - Memoryclock                          1 7.7820e-06 0.00033883 -5014.9
## - fb_subp1_write_sectors               1 1.0455e-05 0.00034151 -5012.1
## - L2.Read.Transactions                 1 2.5775e-05 0.00035682 -4996.1
## - fb_subp1_read_sectors                1 3.5091e-05 0.00036614 -4986.7
## - Device.Memory.Read.Transactions       1 6.8098e-05 0.00039915 -4955.3
```

```
##
## Step: AIC=-5023.19
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Issued.IPC +
## Issue.Slot.Utilization + Global.Store.Transactions.Per.Request +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + inst_issued1 + Grid.X + Block.X
```

	Df	Sum of Sq	RSS	AIC
## - Global.Store.Transactions.Per.Request	1	4.8300e-07	0.00033171	-5024.7
## - FLOP.Efficiency.Peak.Single.	1	5.6300e-07	0.00033179	-5024.6
## - Grid.X	1	8.4400e-07	0.00033207	-5024.3
## - Issue.Slot.Utilization	1	1.0950e-06	0.00033232	-5024.0
## - Issued.IPC	1	1.1030e-06	0.00033233	-5024.0
## - Block.X	1	1.1660e-06	0.00033240	-5023.9
## - Eligible.Warps.Per.Active.Cycle	1	1.3930e-06	0.00033262	-5023.7
## <none>			0.00033123	-5023.2
## - fb_subp0_read_sectors	1	3.5270e-06	0.00033476	-5021.3
## - Bus	1	3.9630e-06	0.00033519	-5020.9
## - Global.Store.Transactions	1	4.9900e-06	0.00033622	-5019.7
## - L2	1	5.1670e-06	0.00033640	-5019.6
## - inst_issued1	1	5.2660e-06	0.00033649	-5019.4
## - fb_subp0_write_sectors	1	5.3130e-06	0.00033654	-5019.4
## - Device.Memory.Write.Transactions	1	5.9360e-06	0.00033717	-5018.7
## - Memoryclock	1	7.6590e-06	0.00033889	-5016.9
## - fb_subp1_write_sectors	1	1.0456e-05	0.00034169	-5013.9
## - L2.Read.Transactions	1	2.6005e-05	0.00035723	-4997.7
## - fb_subp1_read_sectors	1	3.5415e-05	0.00036664	-4988.2
## - Device.Memory.Read.Transactions	1	6.8486e-05	0.00039972	-4956.8

```
##
## Step: AIC=-5024.66
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Issued.IPC +
## Issue.Slot.Utilization + Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + inst_issued1 + Grid.X + Block.X
##
```

```

##
## - FLOP.Efficiency.Peak.Single.      1 2.8300e-07 0.00033200 -5026.3
## - Grid.X                            1 8.2200e-07 0.00033253 -5025.8
## - Block.X                           1 8.8900e-07 0.00033260 -5025.7
## - Eligible.Warps.Per.Active.Cycle   1 9.1600e-07 0.00033263 -5025.7
## - Issue.Slot.Utilization             1 1.0840e-06 0.00033280 -5025.5
## - Issued.IPC                        1 1.0890e-06 0.00033280 -5025.5
## <none>                               0.00033171 -5024.7
## - fb_subp0_read_sectors             1 3.5170e-06 0.00033523 -5022.8
## - Bus                               1 4.7780e-06 0.00033649 -5021.5
## - inst_issued1                      1 5.2260e-06 0.00033694 -5021.0
## - fb_subp0_write_sectors            1 5.3300e-06 0.00033704 -5020.9
## - Device.Memory.Write.Transactions   1 5.9030e-06 0.00033762 -5020.2
## - L2                                1 6.1390e-06 0.00033785 -5020.0
## - Global.Store.Transactions          1 7.0620e-06 0.00033877 -5019.0
## - Memoryclock                       1 8.5370e-06 0.00034025 -5017.4
## - fb_subp1_write_sectors            1 1.0371e-05 0.00034208 -5015.5
## - L2.Read.Transactions              1 2.6122e-05 0.00035783 -4999.1
## - fb_subp1_read_sectors             1 3.4984e-05 0.00036670 -4990.2
## - Device.Memory.Read.Transactions    1 6.8198e-05 0.00039991 -4958.6
##
## Step: AIC=-5026.35
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Issued.IPC +
##   Issue.Slot.Utilization + Global.Store.Transactions + Device.Memory.Read.Transactions +
##   Device.Memory.Write.Transactions + L2.Read.Transactions +
##   Eligible.Warps.Per.Active.Cycle + fb_subp0_read_sectors +
##   fb_subp1_read_sectors + fb_subp0_write_sectors + fb_subp1_write_sectors +
##   inst_issued1 + Grid.X + Block.X
##
##
## Df Sum of Sq RSS AIC
## - Grid.X 1 7.0600e-07 0.00033270 -5027.6
## - Block.X 1 7.6400e-07 0.00033276 -5027.5
## - Eligible.Warps.Per.Active.Cycle 1 9.9400e-07 0.00033299 -5027.3
## - Issue.Slot.Utilization 1 1.0040e-06 0.00033300 -5027.2
## - Issued.IPC 1 1.0130e-06 0.00033301 -5027.2
## <none> 0.00033200 -5026.3
## - fb_subp0_read_sectors 1 3.6820e-06 0.00033568 -5024.3
## - fb_subp0_write_sectors 1 5.0840e-06 0.00033708 -5022.8
## - Bus 1 5.3210e-06 0.00033732 -5022.6
## - inst_issued1 1 5.8080e-06 0.00033780 -5022.0
## - Device.Memory.Write.Transactions 1 6.0630e-06 0.00033806 -5021.8
## - L2 1 6.7570e-06 0.00033875 -5021.0
## - Global.Store.Transactions 1 6.7890e-06 0.00033878 -5021.0
## - Memoryclock 1 9.7440e-06 0.00034174 -5017.8
## - fb_subp1_write_sectors 1 1.0088e-05 0.00034208 -5017.4
## - L2.Read.Transactions 1 2.5952e-05 0.00035795 -5000.9
## - fb_subp1_read_sectors 1 3.4900e-05 0.00036690 -4992.0
## - Device.Memory.Read.Transactions 1 6.8315e-05 0.00040031 -4960.2
##
## Step: AIC=-5027.57
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Issued.IPC +
##   Issue.Slot.Utilization + Global.Store.Transactions + Device.Memory.Read.Transactions +
##   Device.Memory.Write.Transactions + L2.Read.Transactions +
##   Eligible.Warps.Per.Active.Cycle + fb_subp0_read_sectors +

```

```

##      fb_subp1_read_sectors + fb_subp0_write_sectors + fb_subp1_write_sectors +
##      inst_issued1 + Block.X
##
##
##      Df Sum of Sq      RSS      AIC
## - Block.X              1 2.0900e-07 0.00033291 -5029.3
## - Eligible.Warps.Per.Active.Cycle  1 6.4200e-07 0.00033334 -5028.9
## - Issue.Slot.Utilization          1 1.4460e-06 0.00033415 -5028.0
## - Issued.IPC                    1 1.4540e-06 0.00033416 -5028.0
## <none>                                0.00033270 -5027.6
## - fb_subp0_read_sectors          1 3.6670e-06 0.00033637 -5025.6
## - fb_subp0_write_sectors         1 5.1450e-06 0.00033785 -5024.0
## - Bus                          1 5.2320e-06 0.00033793 -5023.9
## - inst_issued1                  1 5.5920e-06 0.00033829 -5023.5
## - Device.Memory.Write.Transactions 1 5.8300e-06 0.00033853 -5023.2
## - L2                          1 6.6780e-06 0.00033938 -5022.3
## - Global.Store.Transactions      1 8.8230e-06 0.00034152 -5020.0
## - Memoryclock                   1 9.5610e-06 0.00034226 -5019.3
## - fb_subp1_write_sectors         1 1.0226e-05 0.00034293 -5018.6
## - L2.Read.Transactions           1 2.6642e-05 0.00035934 -5001.5
## - fb_subp1_read_sectors          1 3.5084e-05 0.00036779 -4993.1
## - Device.Memory.Read.Transactions 1 7.0093e-05 0.00040280 -4960.0
##
## Step: AIC=-5029.34
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Issued.IPC +
##      Issue.Slot.Utilization + Global.Store.Transactions + Device.Memory.Read.Transactions +
##      Device.Memory.Write.Transactions + L2.Read.Transactions +
##      Eligible.Warps.Per.Active.Cycle + fb_subp0_read_sectors +
##      fb_subp1_read_sectors + fb_subp0_write_sectors + fb_subp1_write_sectors +
##      inst_issued1
##
##
##      Df Sum of Sq      RSS      AIC
## - Eligible.Warps.Per.Active.Cycle  1 5.7200e-07 0.00033348 -5030.7
## <none>                                0.00033291 -5029.3
## - Issued.IPC                    1 2.0310e-06 0.00033494 -5029.1
## - Issue.Slot.Utilization          1 2.0320e-06 0.00033494 -5029.1
## - fb_subp0_read_sectors          1 4.0020e-06 0.00033691 -5027.0
## - fb_subp0_write_sectors         1 4.9380e-06 0.00033785 -5026.0
## - Bus                          1 5.1250e-06 0.00033804 -5025.8
## - Device.Memory.Write.Transactions 1 6.3360e-06 0.00033925 -5024.5
## - L2                          1 6.5540e-06 0.00033947 -5024.2
## - inst_issued1                  1 6.9230e-06 0.00033983 -5023.9
## - Global.Store.Transactions      1 8.6910e-06 0.00034160 -5022.0
## - Memoryclock                   1 9.4440e-06 0.00034236 -5021.2
## - fb_subp1_write_sectors         1 1.0089e-05 0.00034300 -5020.5
## - L2.Read.Transactions           1 2.7060e-05 0.00035997 -5002.9
## - fb_subp1_read_sectors          1 3.4892e-05 0.00036780 -4995.1
## - Device.Memory.Read.Transactions 1 7.0040e-05 0.00040295 -4961.8
##
## Step: AIC=-5030.72
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Issued.IPC +
##      Issue.Slot.Utilization + Global.Store.Transactions + Device.Memory.Read.Transactions +
##      Device.Memory.Write.Transactions + L2.Read.Transactions +
##      fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##      fb_subp1_write_sectors + inst_issued1

```



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##
##
##      Df Sum of Sq      RSS      AIC
## <none>                                0.00033348 -5030.7
## - Issued.IPC                        1 2.2430e-06 0.00033573 -5030.3
## - Issue.Slot.Utilization            1 2.2520e-06 0.00033573 -5030.3
## - fb_subp0_read_sectors             1 3.9660e-06 0.00033745 -5028.4
## - fb_subp0_write_sectors            1 5.4160e-06 0.00033890 -5026.9
## - Bus                              1 5.4980e-06 0.00033898 -5026.8
## - Device.Memory.Write.Transactions  1 5.8930e-06 0.00033938 -5026.3
## - inst_issued1                      1 6.3660e-06 0.00033985 -5025.8
## - L2                               1 6.9190e-06 0.00034040 -5025.2
## - Global.Store.Transactions         1 9.2160e-06 0.00034270 -5022.8
## - Memoryclock                      1 9.6980e-06 0.00034318 -5022.3
## - fb_subp1_write_sectors            1 1.0810e-05 0.00034429 -5021.1
## - L2.Read.Transactions              1 2.7306e-05 0.00036079 -5004.1
## - fb_subp1_read_sectors             1 3.5062e-05 0.00036854 -4996.3
## - Device.Memory.Read.Transactions   1 7.0264e-05 0.00040375 -4963.1
## Start:  AIC=-9694.64
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##   Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##   Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##   Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##   Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
##   Global.Store.Transactions + Device.Memory.Read.Transactions +
##   Device.Memory.Write.Transactions + L2.Read.Transactions +
##   L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
##   Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##   Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
##   Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
##   Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
##   Control.Flow.Instructions + Misc.Instructions + Eligible.Warps.Per.Active.Cycle +
##   FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
##   fb_subp0_write_sectors + fb_subp1_write_sectors + warps_launched +
##   inst_executed + inst_issued1 + inst_issued2 + gld_inst_32bit +
##   gst_inst_32bit + Grid.X + Block.X
##
##
## Step:  AIC=-9694.64
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##   Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##   Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##   Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##   Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
##   Global.Store.Transactions + Device.Memory.Read.Transactions +
##   Device.Memory.Write.Transactions + L2.Read.Transactions +
##   L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
##   Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##   Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
##   Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
##   Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
##   Control.Flow.Instructions + Misc.Instructions + Eligible.Warps.Per.Active.Cycle +
##   FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
##   fb_subp0_write_sectors + fb_subp1_write_sectors + warps_launched +
##   inst_executed + inst_issued1 + inst_issued2 + gld_inst_32bit +

```

```

##      gst_inst_32bit + Block.X
##
##
## Step:  AIC=-9694.64
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##      Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##      Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
##      Global.Store.Transactions + Device.Memory.Read.Transactions +
##      Device.Memory.Write.Transactions + L2.Read.Transactions +
##      L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
##      Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##      Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
##      Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
##      Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
##      Control.Flow.Instructions + Misc.Instructions + Eligible.Warps.Per.Active.Cycle +
##      FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
##      fb_subp0_write_sectors + fb_subp1_write_sectors + warps_launched +
##      inst_executed + inst_issued1 + inst_issued2 + gld_inst_32bit +
##      Block.X
##
##
## Step:  AIC=-9694.64
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##      Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##      Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
##      Global.Store.Transactions + Device.Memory.Read.Transactions +
##      Device.Memory.Write.Transactions + L2.Read.Transactions +
##      L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
##      Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##      Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
##      Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
##      Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
##      Control.Flow.Instructions + Misc.Instructions + Eligible.Warps.Per.Active.Cycle +
##      FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
##      fb_subp0_write_sectors + fb_subp1_write_sectors + warps_launched +
##      inst_executed + inst_issued1 + inst_issued2 + Block.X
##
##
## Step:  AIC=-9694.64
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##      Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##      Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
##      Global.Store.Transactions + Device.Memory.Read.Transactions +
##      Device.Memory.Write.Transactions + L2.Read.Transactions +
##      L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
##      Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##      Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
##      Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +

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```

##      Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
##      Control.Flow.Instructions + Misc.Instructions + Eligible.Warps.Per.Active.Cycle +
##      FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
##      fb_subp0_write_sectors + fb_subp1_write_sectors + warps_launched +
##      inst_executed + inst_issued1 + Block.X
##
##
## Step:  AIC=-9694.64
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##      Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##      Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
##      Global.Store.Transactions + Device.Memory.Read.Transactions +
##      Device.Memory.Write.Transactions + L2.Read.Transactions +
##      L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
##      Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##      Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
##      Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
##      Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
##      Control.Flow.Instructions + Misc.Instructions + Eligible.Warps.Per.Active.Cycle +
##      FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
##      fb_subp0_write_sectors + fb_subp1_write_sectors + warps_launched +
##      inst_issued1 + Block.X
##
##
## Step:  AIC=-9694.64
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##      Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##      Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
##      Global.Store.Transactions + Device.Memory.Read.Transactions +
##      Device.Memory.Write.Transactions + L2.Read.Transactions +
##      L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
##      Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##      Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
##      Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
##      Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
##      Control.Flow.Instructions + Misc.Instructions + Eligible.Warps.Per.Active.Cycle +
##      FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
##      fb_subp0_write_sectors + fb_subp1_write_sectors + inst_issued1 +
##      Block.X
##
##
## Step:  AIC=-9694.64
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##      Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##      Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
##      Global.Store.Transactions + Device.Memory.Read.Transactions +
##      Device.Memory.Write.Transactions + L2.Read.Transactions +
##      L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +

```

```

## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
## Control.Flow.Instructions + Eligible.Warps.Per.Active.Cycle +
## FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
## fb_subp0_write_sectors + fb_subp1_write_sectors + inst_issued1 +
## Block.X
##
##
## Step: AIC=-9694.64
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + inst_issued1 + Block.X
##
##
## Step: AIC=-9694.64
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + Eligible.Warps.Per.Active.Cycle +
## FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
## fb_subp0_write_sectors + fb_subp1_write_sectors + inst_issued1 +
## Block.X
##
##
## Step: AIC=-9694.64
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +

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##      L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
##      Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##      Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
##      Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
##      Instructions.Issued + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##      fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##      fb_subp1_write_sectors + inst_issued1 + Block.X
##
##
## Step:  AIC=-9694.64
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##      Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##      Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
##      Global.Store.Transactions + Device.Memory.Read.Transactions +
##      Device.Memory.Write.Transactions + L2.Read.Transactions +
##      L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
##      Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##      Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
##      Floating.Point.Operations.Single.Precision.FMA. + Instructions.Issued +
##      Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##      fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##      fb_subp1_write_sectors + inst_issued1 + Block.X
##
##
## Step:  AIC=-9694.64
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##      Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##      Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
##      Global.Store.Transactions + Device.Memory.Read.Transactions +
##      Device.Memory.Write.Transactions + L2.Read.Transactions +
##      L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
##      Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##      Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
##      Instructions.Issued + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##      fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##      fb_subp1_write_sectors + inst_issued1 + Block.X
##
##
## Step:  AIC=-9694.64
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##      Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##      Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
##      Global.Store.Transactions + Device.Memory.Read.Transactions +
##      Device.Memory.Write.Transactions + L2.Read.Transactions +
##      L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
##      Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##      Executed.Load.Store.Instructions + Instructions.Issued +
##      Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +

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##      fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##      fb_subp1_write_sectors + inst_issued1 + Block.X
##
##
## Step:  AIC=-9694.64
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##      Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##      Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
##      Global.Store.Transactions + Device.Memory.Read.Transactions +
##      Device.Memory.Write.Transactions + L2.Read.Transactions +
##      L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
##      Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##      Instructions.Issued + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##      fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##      fb_subp1_write_sectors + inst_issued1 + Block.X
##
##
## Step:  AIC=-9694.64
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##      Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##      Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
##      Global.Store.Transactions + Device.Memory.Read.Transactions +
##      Device.Memory.Write.Transactions + L2.Read.Transactions +
##      L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
##      Executed.Control.Flow.Instructions + Instructions.Issued +
##      Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##      fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##      fb_subp1_write_sectors + inst_issued1 + Block.X
##
##
## Step:  AIC=-9694.64
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##      Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##      Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
##      Global.Store.Transactions + Device.Memory.Read.Transactions +
##      Device.Memory.Write.Transactions + L2.Read.Transactions +
##      L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
##      Instructions.Issued + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##      fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##      fb_subp1_write_sectors + inst_issued1 + Block.X
##
##
## Step:  AIC=-9694.64
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##      Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##      Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +

```

```

## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Instructions.Issued + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + inst_issued1 + Block.X
##
##
## Step: AIC=-9694.64
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Device.Memory.Read.Transactions + Device.Memory.Write.Transactions +
## L2.Read.Transactions + L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Instructions.Issued + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + inst_issued1 + Block.X
##
##
## Step: AIC=-9694.64
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Instructions.Issued + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + inst_issued1 + Block.X
##
##
## Step: AIC=-9694.64
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Shared.Load.Transactions +
## Shared.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Instructions.Issued + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + inst_issued1 + Block.X
##
##
## Step: AIC=-9694.64
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +

```

```

##      Instructions.Issued + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##      fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##      fb_subp1_write_sectors + inst_issued1 + Block.X
##
##
## Step:   AIC=-9694.64
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Shared.Load.Transactions +
##      Shared.Store.Transactions + Device.Memory.Read.Transactions +
##      Device.Memory.Write.Transactions + L2.Read.Transactions +
##      L2.Write.Transactions + Issued.Control.Flow.Instructions +
##      Instructions.Issued + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##      fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##      fb_subp1_write_sectors + inst_issued1 + Block.X
##
##
## Step:   AIC=-9694.64
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Load.Transactions + Shared.Store.Transactions + Device.Memory.Read.Transactions +
##      Device.Memory.Write.Transactions + L2.Read.Transactions +
##      L2.Write.Transactions + Issued.Control.Flow.Instructions +
##      Instructions.Issued + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##      fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##      fb_subp1_write_sectors + inst_issued1 + Block.X
##
##
## Step:   AIC=-9694.64
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Load.Transactions + Shared.Store.Transactions + Device.Memory.Read.Transactions +
##      Device.Memory.Write.Transactions + L2.Read.Transactions +
##      L2.Write.Transactions + Issued.Control.Flow.Instructions +
##      Instructions.Issued + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##      fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##      fb_subp1_write_sectors + inst_issued1 + Block.X
##
##
##
##      Df  Sum of Sq      RSS      AIC
## - Issued.IPC      1 3.0000e-09 0.00036383 -9696.6
## - L2.Read.Transactions      1 1.2300e-07 0.00036395 -9696.4
## - Device.Memory.Write.Transactions      1 1.2300e-07 0.00036395 -9696.4
## - Issue.Slot.Utilization      1 1.6600e-07 0.00036400 -9696.3
## - L2      1 1.7500e-07 0.00036401 -9696.3
## - FLOP.Efficiency.Peak.Single.      1 2.3100e-07 0.00036406 -9696.2
## - L2.Write.Transactions      1 2.7100e-07 0.00036410 -9696.1
## - Shared.Load.Transactions      1 3.3300e-07 0.00036416 -9696.0
## - Bus      1 8.0200e-07 0.00036463 -9695.1
## - Instructions.Issued      1 9.2100e-07 0.00036475 -9694.9
## <none>      0.00036383 -9694.6
## - fb_subp0_write_sectors      1 1.2610e-06 0.00036509 -9694.3
## - inst_issued1      1 1.4520e-06 0.00036528 -9693.9
## - Memoryclock      1 1.4760e-06 0.00036531 -9693.9
## - Eligible.Warps.Per.Active.Cycle      1 2.8130e-06 0.00036664 -9691.4

```



```

## - Issued.Control.Flow.Instructions 1 3.0510e-06 0.00036688 -9691.0
## - Input.Size 1 3.2450e-06 0.00036708 -9690.6
## - Shared.Store.Transactions 1 3.4430e-06 0.00036727 -9690.3
## - fb_subp1_write_sectors 1 3.5670e-06 0.00036740 -9690.1
## - Block.X 1 1.0664e-05 0.00037450 -9677.1
## - fb_subp1_read_sectors 1 2.0383e-05 0.00038421 -9659.8
## - fb_subp0_read_sectors 1 5.5579e-05 0.00041941 -9600.7
## - Device.Memory.Read.Transactions 1 6.2477e-05 0.00042631 -9589.7
## - Instructions.per.warp 1 1.7520e-04 0.00053903 -9431.3
##
## Step: AIC=-9696.63
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Input.Size +
## Instructions.per.warp + Issue.Slot.Utilization + Shared.Load.Transactions +
## Shared.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Issued.Control.Flow.Instructions +
## Instructions.Issued + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + inst_issued1 + Block.X
##
##
## Df Sum of Sq RSS AIC
## - L2.Read.Transactions 1 1.2400e-07 0.00036396 -9698.4
## - Device.Memory.Write.Transactions 1 1.2900e-07 0.00036396 -9698.4
## - L2 1 1.8900e-07 0.00036402 -9698.3
## - L2.Write.Transactions 1 2.6800e-07 0.00036410 -9698.1
## - FLOP.Efficiency.Peak.Single. 1 3.0500e-07 0.00036414 -9698.1
## - Shared.Load.Transactions 1 3.4300e-07 0.00036418 -9698.0
## - Bus 1 8.1000e-07 0.00036464 -9697.1
## <none> 0.00036383 -9696.6
## - Instructions.Issued 1 1.1190e-06 0.00036495 -9696.6
## - fb_subp0_write_sectors 1 1.2580e-06 0.00036509 -9696.3
## - Memoryclock 1 1.5850e-06 0.00036542 -9695.7
## - inst_issued1 1 1.6480e-06 0.00036548 -9695.6
## - Eligible.Warps.Per.Active.Cycle 1 2.9700e-06 0.00036680 -9693.1
## - fb_subp1_write_sectors 1 3.6100e-06 0.00036744 -9692.0
## - Issue.Slot.Utilization 1 3.8210e-06 0.00036766 -9691.6
## - Issued.Control.Flow.Instructions 1 4.7650e-06 0.00036860 -9689.8
## - Shared.Store.Transactions 1 5.1350e-06 0.00036897 -9689.2
## - Input.Size 1 5.2700e-06 0.00036910 -9688.9
## - Block.X 1 1.1252e-05 0.00037509 -9678.1
## - fb_subp1_read_sectors 1 2.0425e-05 0.00038426 -9661.8
## - fb_subp0_read_sectors 1 5.5822e-05 0.00041966 -9602.3
## - Device.Memory.Read.Transactions 1 6.2509e-05 0.00042634 -9591.6
## - Instructions.per.warp 1 1.7525e-04 0.00053908 -9433.2
##
## Step: AIC=-9698.4
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Input.Size +
## Instructions.per.warp + Issue.Slot.Utilization + Shared.Load.Transactions +
## Shared.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Write.Transactions +
## Issued.Control.Flow.Instructions + Instructions.Issued +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + inst_issued1 + Block.X

```

```

##
##
##      Df Sum of Sq      RSS      AIC
## - Device.Memory.Write.Transactions  1 1.2900e-07 0.00036409 -9700.2
## - L2                                1 2.1200e-07 0.00036417 -9700.0
## - L2.Write.Transactions              1 2.5900e-07 0.00036422 -9699.9
## - FLOP.Efficiency.Peak.Single.       1 3.0600e-07 0.00036426 -9699.8
## - Shared.Load.Transactions           1 3.4000e-07 0.00036430 -9699.8
## - Bus                               1 8.5400e-07 0.00036481 -9698.8
## <none>                               0.00036396 -9698.4
## - Instructions.Issued                 1 1.1330e-06 0.00036509 -9698.3
## - fb_subp0_write_sectors              1 1.2550e-06 0.00036521 -9698.1
## - Memoryclock                        1 1.6200e-06 0.00036558 -9697.4
## - inst_issued1                       1 1.6480e-06 0.00036561 -9697.3
## - Eligible.Warps.Per.Active.Cycle    1 2.9750e-06 0.00036693 -9694.9
## - fb_subp1_write_sectors              1 3.5660e-06 0.00036753 -9693.8
## - Issue.Slot.Utilization              1 3.8240e-06 0.00036778 -9693.3
## - Issued.Control.Flow.Instructions    1 4.7990e-06 0.00036876 -9691.6
## - Shared.Store.Transactions           1 5.1550e-06 0.00036911 -9690.9
## - Input.Size                         1 5.3050e-06 0.00036926 -9690.6
## - Block.X                            1 1.1259e-05 0.00037522 -9679.8
## - fb_subp1_read_sectors               1 2.0671e-05 0.00038463 -9663.1
## - fb_subp0_read_sectors               1 5.6247e-05 0.00042021 -9603.4
## - Device.Memory.Read.Transactions     1 6.3251e-05 0.00042721 -9592.2
## - Instructions.per.warp               1 1.7531e-04 0.00053927 -9435.0
##
## Step: AIC=-9700.16
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Input.Size +
##   Instructions.per.warp + Issue.Slot.Utilization + Shared.Load.Transactions +
##   Shared.Store.Transactions + Device.Memory.Read.Transactions +
##   L2.Write.Transactions + Issued.Control.Flow.Instructions +
##   Instructions.Issued + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##   fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##   fb_subp1_write_sectors + inst_issued1 + Block.X
##
##      Df Sum of Sq      RSS      AIC
## - L2                                1 2.2600e-07 0.00036431 -9701.7
## - L2.Write.Transactions              1 2.6000e-07 0.00036435 -9701.7
## - Shared.Load.Transactions           1 3.4300e-07 0.00036443 -9701.5
## - FLOP.Efficiency.Peak.Single.       1 3.7900e-07 0.00036447 -9701.5
## - Bus                               1 9.3200e-07 0.00036502 -9700.4
## <none>                               0.00036409 -9700.2
## - Instructions.Issued                 1 1.1110e-06 0.00036520 -9700.1
## - Memoryclock                        1 1.6380e-06 0.00036573 -9699.1
## - inst_issued1                       1 1.6420e-06 0.00036573 -9699.1
## - Eligible.Warps.Per.Active.Cycle    1 3.0960e-06 0.00036718 -9696.4
## - Issue.Slot.Utilization              1 4.0220e-06 0.00036811 -9694.7
## - Issued.Control.Flow.Instructions    1 4.7440e-06 0.00036883 -9693.4
## - Shared.Store.Transactions           1 5.1130e-06 0.00036920 -9692.7
## - Input.Size                         1 5.2470e-06 0.00036933 -9692.5
## - fb_subp0_write_sectors              1 5.3600e-06 0.00036945 -9692.3
## - fb_subp1_write_sectors              1 6.4640e-06 0.00037055 -9690.3
## - Block.X                            1 1.1465e-05 0.00037555 -9681.2
## - fb_subp1_read_sectors               1 2.1003e-05 0.00038509 -9664.3
## - fb_subp0_read_sectors               1 5.6970e-05 0.00042106 -9604.0

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## - Device.Memory.Read.Transactions    1 6.3242e-05 0.00042733 -9594.1
## - Instructions.per.warp               1 1.7550e-04 0.00053959 -9436.6
##
## Step: AIC=-9701.74
## trainingSet$Duration ~ Bus + Memoryclock + Input.Size + Instructions.per.warp +
##   Issue.Slot.Utilization + Shared.Load.Transactions + Shared.Store.Transactions +
##   Device.Memory.Read.Transactions + L2.Write.Transactions +
##   Issued.Control.Flow.Instructions + Instructions.Issued +
##   Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##   fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##   fb_subp1_write_sectors + inst_issued1 + Block.X
##
##
##           Df Sum of Sq      RSS      AIC
## - Shared.Load.Transactions      1 2.8400e-07 0.00036460 -9703.2
## - L2.Write.Transactions          1 2.9800e-07 0.00036461 -9703.2
## - FLOP.Efficiency.Peak.Single.   1 3.8000e-07 0.00036469 -9703.0
## <none>                          0.00036431 -9701.7
## - Instructions.Issued            1 1.0820e-06 0.00036540 -9701.7
## - Memoryclock                   1 1.4660e-06 0.00036578 -9701.0
## - inst_issued1                   1 1.4830e-06 0.00036580 -9701.0
## - Eligible.Warps.Per.Active.Cycle 1 3.1500e-06 0.00036746 -9697.9
## - Bus                            1 3.9050e-06 0.00036822 -9696.5
## - Issue.Slot.Utilization         1 4.0870e-06 0.00036840 -9696.2
## - Issued.Control.Flow.Instructions 1 4.5350e-06 0.00036885 -9695.4
## - Shared.Store.Transactions      1 4.8890e-06 0.00036920 -9694.7
## - Input.Size                     1 5.0230e-06 0.00036934 -9694.5
## - fb_subp0_write_sectors         1 5.7480e-06 0.00037006 -9693.2
## - fb_subp1_write_sectors         1 6.6880e-06 0.00037100 -9691.5
## - Block.X                       1 1.1370e-05 0.00037568 -9683.0
## - fb_subp1_read_sectors          1 2.2690e-05 0.00038700 -9663.0
## - fb_subp0_read_sectors          1 5.9496e-05 0.00042381 -9601.6
## - Device.Memory.Read.Transactions 1 6.9416e-05 0.00043373 -9586.0
## - Instructions.per.warp          1 1.7544e-04 0.00053975 -9438.4
##
## Step: AIC=-9703.22
## trainingSet$Duration ~ Bus + Memoryclock + Input.Size + Instructions.per.warp +
##   Issue.Slot.Utilization + Shared.Store.Transactions + Device.Memory.Read.Transactions +
##   L2.Write.Transactions + Issued.Control.Flow.Instructions +
##   Instructions.Issued + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##   fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##   fb_subp1_write_sectors + inst_issued1 + Block.X
##
##
##           Df Sum of Sq      RSS      AIC
## - L2.Write.Transactions          1 3.0400e-07 0.00036490 -9704.7
## - FLOP.Efficiency.Peak.Single.   1 3.7600e-07 0.00036497 -9704.5
## <none>                          0.00036460 -9703.2
## - Memoryclock                   1 1.4590e-06 0.00036606 -9702.5
## - Eligible.Warps.Per.Active.Cycle 1 3.1730e-06 0.00036777 -9699.4
## - Bus                            1 4.0720e-06 0.00036867 -9697.7
## - Issue.Slot.Utilization         1 4.1300e-06 0.00036873 -9697.6
## - Input.Size                     1 5.1930e-06 0.00036979 -9695.7
## - Instructions.Issued            1 5.4320e-06 0.00037003 -9695.2
## - Issued.Control.Flow.Instructions 1 5.5140e-06 0.00037011 -9695.1
## - Shared.Store.Transactions      1 5.5330e-06 0.00037013 -9695.1

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## - fb_subp0_write_sectors      1 5.7770e-06 0.00037037 -9694.6
## - inst_issued1                1 5.7970e-06 0.00037039 -9694.6
## - fb_subp1_write_sectors      1 7.0850e-06 0.00037168 -9692.2
## - Block.X                     1 1.1265e-05 0.00037586 -9684.7
## - fb_subp1_read_sectors       1 2.2505e-05 0.00038710 -9664.8
## - fb_subp0_read_sectors       1 5.9268e-05 0.00042386 -9603.5
## - Device.Memory.Read.Transactions 1 6.9999e-05 0.00043460 -9586.7
## - Instructions.per.warp       1 1.7567e-04 0.00054026 -9439.8
##
## Step: AIC=-9704.65
## trainingSet$Duration ~ Bus + Memoryclock + Input.Size + Instructions.per.warp +
##   Issue.Slot.Utilization + Shared.Store.Transactions + Device.Memory.Read.Transactions +
##   Issued.Control.Flow.Instructions + Instructions.Issued +
##   Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##   fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##   fb_subp1_write_sectors + inst_issued1 + Block.X
##
##              Df Sum of Sq      RSS      AIC
## - FLOP.Efficiency.Peak.Single.  1 3.8100e-07 0.00036528 -9705.9
## <none>                          0.00036490 -9704.7
## - Memoryclock                  1 1.4550e-06 0.00036636 -9704.0
## - Eligible.Warps.Per.Active.Cycle 1 3.1910e-06 0.00036809 -9700.8
## - Bus                          1 4.0400e-06 0.00036894 -9699.2
## - Issue.Slot.Utilization        1 4.1460e-06 0.00036905 -9699.0
## - Input.Size                   1 5.1060e-06 0.00037001 -9697.3
## - Instructions.Issued           1 5.3320e-06 0.00037023 -9696.9
## - Issued.Control.Flow.Instructions 1 5.4230e-06 0.00037032 -9696.7
## - Shared.Store.Transactions     1 5.4480e-06 0.00037035 -9696.7
## - inst_issued1                 1 5.7400e-06 0.00037064 -9696.1
## - fb_subp0_write_sectors        1 5.7910e-06 0.00037069 -9696.0
## - fb_subp1_write_sectors        1 7.0610e-06 0.00037196 -9693.7
## - Block.X                      1 1.1335e-05 0.00037624 -9686.0
## - fb_subp1_read_sectors         1 2.2609e-05 0.00038751 -9666.1
## - fb_subp0_read_sectors         1 5.9400e-05 0.00042430 -9604.9
## - Device.Memory.Read.Transactions 1 7.0089e-05 0.00043499 -9588.1
## - Instructions.per.warp         1 1.7561e-04 0.00054051 -9441.5
##
## Step: AIC=-9705.95
## trainingSet$Duration ~ Bus + Memoryclock + Input.Size + Instructions.per.warp +
##   Issue.Slot.Utilization + Shared.Store.Transactions + Device.Memory.Read.Transactions +
##   Issued.Control.Flow.Instructions + Instructions.Issued +
##   Eligible.Warps.Per.Active.Cycle + fb_subp0_read_sectors +
##   fb_subp1_read_sectors + fb_subp0_write_sectors + fb_subp1_write_sectors +
##   inst_issued1 + Block.X
##
##              Df Sum of Sq      RSS      AIC
## <none>                          0.00036528 -9705.9
## - Eligible.Warps.Per.Active.Cycle 1 3.6960e-06 0.00036898 -9701.2
## - Bus                          1 3.7280e-06 0.00036901 -9701.1
## - Issue.Slot.Utilization        1 4.1320e-06 0.00036941 -9700.4
## - Memoryclock                  1 4.9570e-06 0.00037024 -9698.9
## - Input.Size                   1 4.9980e-06 0.00037028 -9698.8
## - Instructions.Issued           1 5.2230e-06 0.00037050 -9698.4
## - Issued.Control.Flow.Instructions 1 5.3130e-06 0.00037059 -9698.2

```

```

## - Shared.Store.Transactions      1 5.3380e-06 0.00037062 -9698.2
## - inst_issued1                   1 5.6270e-06 0.00037091 -9697.6
## - fb_subp1_write_sectors         1 6.6800e-06 0.00037196 -9695.7
## - fb_subp0_write_sectors         1 7.0960e-06 0.00037238 -9695.0
## - Block.X                        1 1.1916e-05 0.00037720 -9686.3
## - fb_subp1_read_sectors          1 2.2522e-05 0.00038780 -9667.6
## - fb_subp0_read_sectors          1 5.9261e-05 0.00042454 -9606.5
## - Device.Memory.Read.Transactions 1 7.0243e-05 0.00043552 -9589.2
## - Instructions.per.warp           1 2.9412e-04 0.00065940 -9309.3
## Start: AIC=-9248.42
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##   Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##   Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##   Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##   Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
##   Global.Store.Transactions + Device.Memory.Read.Transactions +
##   Device.Memory.Write.Transactions + L2.Read.Transactions +
##   L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
##   Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##   Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
##   Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
##   Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
##   Control.Flow.Instructions + Misc.Instructions + Eligible.Warps.Per.Active.Cycle +
##   FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
##   fb_subp0_write_sectors + fb_subp1_write_sectors + warps_launched +
##   inst_executed + inst_issued1 + inst_issued2 + gld_inst_32bit +
##   gst_inst_32bit + Grid.X + Block.X
##
##
## Step: AIC=-9248.42
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##   Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##   Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##   Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##   Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
##   Global.Store.Transactions + Device.Memory.Read.Transactions +
##   Device.Memory.Write.Transactions + L2.Read.Transactions +
##   L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
##   Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##   Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
##   Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
##   Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
##   Control.Flow.Instructions + Misc.Instructions + Eligible.Warps.Per.Active.Cycle +
##   FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
##   fb_subp0_write_sectors + fb_subp1_write_sectors + warps_launched +
##   inst_executed + inst_issued1 + inst_issued2 + gld_inst_32bit +
##   Grid.X + Block.X
##
##
## Step: AIC=-9248.42
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##   Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##   Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##   Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +

```

```

## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
## Control.Flow.Instructions + Misc.Instructions + Eligible.Warps.Per.Active.Cycle +
## FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
## fb_subp0_write_sectors + fb_subp1_write_sectors + warps_launched +
## inst_executed + inst_issued1 + inst_issued2 + Grid.X + Block.X
##
##
## Step: AIC=-9248.42
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
## Control.Flow.Instructions + Misc.Instructions + Eligible.Warps.Per.Active.Cycle +
## FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
## fb_subp0_write_sectors + fb_subp1_write_sectors + warps_launched +
## inst_executed + inst_issued1 + Grid.X + Block.X
##
##
## Step: AIC=-9248.42
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
## Control.Flow.Instructions + Misc.Instructions + Eligible.Warps.Per.Active.Cycle +
## FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
## fb_subp0_write_sectors + fb_subp1_write_sectors + warps_launched +
## inst_issued1 + Grid.X + Block.X
##
##
## Step: AIC=-9248.42
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +

```

```

##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##      Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##      Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
##      Global.Store.Transactions + Device.Memory.Read.Transactions +
##      Device.Memory.Write.Transactions + L2.Read.Transactions +
##      L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
##      Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##      Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
##      Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
##      Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
##      Control.Flow.Instructions + Misc.Instructions + Eligible.Warps.Per.Active.Cycle +
##      FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
##      fb_subp0_write_sectors + fb_subp1_write_sectors + inst_issued1 +
##      Grid.X + Block.X
##
##
## Step:  AIC=-9248.42
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##      Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##      Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
##      Global.Store.Transactions + Device.Memory.Read.Transactions +
##      Device.Memory.Write.Transactions + L2.Read.Transactions +
##      L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
##      Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##      Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
##      Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
##      Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
##      Control.Flow.Instructions + Eligible.Warps.Per.Active.Cycle +
##      FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
##      fb_subp0_write_sectors + fb_subp1_write_sectors + inst_issued1 +
##      Grid.X + Block.X
##
##
## Step:  AIC=-9248.42
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##      Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##      Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
##      Global.Store.Transactions + Device.Memory.Read.Transactions +
##      Device.Memory.Write.Transactions + L2.Read.Transactions +
##      L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
##      Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##      Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
##      Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
##      Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
##      Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##      fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##      fb_subp1_write_sectors + inst_issued1 + Grid.X + Block.X
##
##

```

```

## Step: AIC=-9248.42
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + Eligible.Warps.Per.Active.Cycle +
## FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
## fb_subp0_write_sectors + fb_subp1_write_sectors + inst_issued1 +
## Grid.X + Block.X
##
##
## Step: AIC=-9248.42
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + inst_issued1 + Grid.X + Block.X
##
##
## Step: AIC=-9248.42
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Issued +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + inst_issued1 + Grid.X + Block.X
##
##
## Step: AIC=-9248.42
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +

```



```

##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##      Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##      Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
##      Global.Store.Transactions + Device.Memory.Read.Transactions +
##      Device.Memory.Write.Transactions + L2.Read.Transactions +
##      L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
##      Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##      Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
##      Instructions.Issued + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##      fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##      fb_subp1_write_sectors + inst_issued1 + Grid.X + Block.X
##
##
## Step:  AIC=-9248.42
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##      Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##      Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
##      Global.Store.Transactions + Device.Memory.Read.Transactions +
##      Device.Memory.Write.Transactions + L2.Read.Transactions +
##      L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
##      Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##      Executed.Load.Store.Instructions + Instructions.Issued +
##      Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##      fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##      fb_subp1_write_sectors + inst_issued1 + Grid.X + Block.X
##
##
## Step:  AIC=-9248.42
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##      Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##      Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
##      Global.Store.Transactions + Device.Memory.Read.Transactions +
##      Device.Memory.Write.Transactions + L2.Read.Transactions +
##      L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
##      Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##      Instructions.Issued + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##      fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##      fb_subp1_write_sectors + inst_issued1 + Grid.X + Block.X
##
##
## Step:  AIC=-9248.42
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##      Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##      Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
##      Global.Store.Transactions + Device.Memory.Read.Transactions +
##      Device.Memory.Write.Transactions + L2.Read.Transactions +
##      L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +

```

```

## Executed.Control.Flow.Instructions + Instructions.Issued +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + inst_issued1 + Grid.X + Block.X
##
##
## Step: AIC=-9248.42
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
## Instructions.Issued + Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + inst_issued1 + Grid.X + Block.X
##
##
## Step: AIC=-9248.42
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Global.Hit.Rate + Instructions.Issued +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + inst_issued1 + Grid.X + Block.X
##
##
## Step: AIC=-9248.42
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Instructions.Issued + Eligible.Warps.Per.Active.Cycle +
## FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
## fb_subp0_write_sectors + fb_subp1_write_sectors + inst_issued1 +
## Grid.X + Block.X
##
##
## Step: AIC=-9248.42
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## 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.Transactions + L2.Write.Transactions + Instructions.Issued +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + inst_issued1 + Grid.X + Block.X
##
##
## Step: AIC=-9248.42
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Instructions.Issued + Eligible.Warps.Per.Active.Cycle +
## FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
## fb_subp0_write_sectors + fb_subp1_write_sectors + inst_issued1 +
## Grid.X + Block.X
##
##
## Step: AIC=-9248.42
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Instructions.Issued + Eligible.Warps.Per.Active.Cycle +
## FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
## fb_subp0_write_sectors + fb_subp1_write_sectors + inst_issued1 +
## Grid.X + Block.X
##
##
## Step: AIC=-9248.42
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Shared.Load.Transactions +
## Device.Memory.Read.Transactions + Device.Memory.Write.Transactions +
## L2.Read.Transactions + L2.Write.Transactions + Instructions.Issued +
## Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + inst_issued1 + Grid.X + Block.X
##
##
## Step: AIC=-9248.42
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Instructions.Issued + Eligible.Warps.Per.Active.Cycle +
## FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
## fb_subp0_write_sectors + fb_subp1_write_sectors + inst_issued1 +

```

```

##      Grid.X + Block.X
##
##
## Step:  AIC=-9248.42
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Shared.Load.Transactions +
##      Device.Memory.Read.Transactions + Device.Memory.Write.Transactions +
##      L2.Read.Transactions + L2.Write.Transactions + Instructions.Issued +
##      Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##      fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##      fb_subp1_write_sectors + inst_issued1 + Grid.X + Block.X
##
##
## Step:  AIC=-9248.42
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Load.Transactions + Device.Memory.Read.Transactions +
##      Device.Memory.Write.Transactions + L2.Read.Transactions +
##      L2.Write.Transactions + Instructions.Issued + Eligible.Warps.Per.Active.Cycle +
##      FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
##      fb_subp0_write_sectors + fb_subp1_write_sectors + inst_issued1 +
##      Grid.X + Block.X
##
##
## Step:  AIC=-9248.42
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Issue.Slot.Utilization + Shared.Load.Transactions +
##      Device.Memory.Read.Transactions + Device.Memory.Write.Transactions +
##      L2.Read.Transactions + L2.Write.Transactions + Instructions.Issued +
##      Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##      fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##      fb_subp1_write_sectors + inst_issued1 + Grid.X + Block.X
##
##
## Step:  AIC=-9248.42
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Input.Size +
##      Issued.IPC + Issue.Slot.Utilization + Shared.Load.Transactions +
##      Device.Memory.Read.Transactions + Device.Memory.Write.Transactions +
##      L2.Read.Transactions + L2.Write.Transactions + Instructions.Issued +
##      Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##      fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##      fb_subp1_write_sectors + inst_issued1 + Grid.X + Block.X
##
##
##
##      Df  Sum of Sq      RSS      AIC
## - Grid.X          1 2.0000e-09 0.00035706 -9250.4
## - L2.Write.Transactions 1 2.0000e-09 0.00035706 -9250.4
## - Eligible.Warps.Per.Active.Cycle 1 1.0000e-08 0.00035707 -9250.4
## - Block.X          1 1.7000e-08 0.00035708 -9250.4
## - L2                1 3.2000e-08 0.00035709 -9250.4
## - inst_issued1      1 8.2000e-08 0.00035714 -9250.3
## - fb_subp0_write_sectors 1 8.6000e-08 0.00035715 -9250.3
## - Input.Size        1 1.4000e-07 0.00035720 -9250.2
## - fb_subp1_write_sectors 1 1.8100e-07 0.00035724 -9250.1

```

```
## - L2.Read.Transactions      1 3.4100e-07 0.00035740 -9249.8
## - Bus                      1 3.4100e-07 0.00035740 -9249.8
## - Instructions.Issued       1 4.1100e-07 0.00035747 -9249.7
## - FLOP.Efficiency.Peak.Single. 1 7.4000e-07 0.00035780 -9249.1
## - Shared.Load.Transactions  1 8.8000e-07 0.00035794 -9248.8
## <none>                      0.00035706 -9248.4
## - Device.Memory.Write.Transactions 1 2.2640e-06 0.00035932 -9246.3
## - Issue.Slot.Utilization    1 3.0940e-06 0.00036015 -9244.9
## - Issued.IPC               1 3.0980e-06 0.00036016 -9244.9
## - Memoryclock              1 3.2890e-06 0.00036035 -9244.5
## - fb_subp0_read_sectors     1 4.8948e-05 0.00040601 -9167.6
## - fb_subp1_read_sectors     1 9.5639e-05 0.00045270 -9097.3
## - Device.Memory.Read.Transactions 1 1.1347e-04 0.00047053 -9072.4
##
## Step: AIC=-9250.42
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Input.Size +
##   Issued.IPC + Issue.Slot.Utilization + Shared.Load.Transactions +
##   Device.Memory.Read.Transactions + Device.Memory.Write.Transactions +
##   L2.Read.Transactions + L2.Write.Transactions + Instructions.Issued +
##   Eligible.Warps.Per.Active.Cycle + FLOP.Efficiency.Peak.Single. +
##   fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##   fb_subp1_write_sectors + inst_issued1 + Block.X
```

	Df	Sum of Sq	RSS	AIC
## - L2.Write.Transactions	1	2.0000e-09	0.00035706	-9252.4
## - Eligible.Warps.Per.Active.Cycle	1	9.0000e-09	0.00035707	-9252.4
## - Block.X	1	1.7000e-08	0.00035708	-9252.4
## - L2	1	3.3000e-08	0.00035709	-9252.4
## - inst_issued1	1	8.3000e-08	0.00035714	-9252.3
## - fb_subp0_write_sectors	1	8.9000e-08	0.00035715	-9252.3
## - Input.Size	1	1.4200e-07	0.00035720	-9252.2
## - fb_subp1_write_sectors	1	1.8000e-07	0.00035724	-9252.1
## - L2.Read.Transactions	1	3.4400e-07	0.00035741	-9251.8
## - Bus	1	3.4600e-07	0.00035741	-9251.8
## - Instructions.Issued	1	4.1900e-07	0.00035748	-9251.7
## - FLOP.Efficiency.Peak.Single.	1	7.4100e-07	0.00035780	-9251.1
## - Shared.Load.Transactions	1	8.7900e-07	0.00035794	-9250.8
## <none>			0.00035706	-9250.4
## - Device.Memory.Write.Transactions	1	2.2640e-06	0.00035933	-9248.3
## - Issue.Slot.Utilization	1	3.2410e-06	0.00036030	-9246.6
## - Issued.IPC	1	3.2430e-06	0.00036030	-9246.6
## - Memoryclock	1	3.3410e-06	0.00036040	-9246.4
## - fb_subp0_read_sectors	1	4.8946e-05	0.00040601	-9169.6
## - fb_subp1_read_sectors	1	9.5657e-05	0.00045272	-9099.3
## - Device.Memory.Read.Transactions	1	1.1367e-04	0.00047073	-9074.2

```
##
## Step: AIC=-9252.42
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Input.Size +
##   Issued.IPC + Issue.Slot.Utilization + Shared.Load.Transactions +
##   Device.Memory.Read.Transactions + Device.Memory.Write.Transactions +
##   L2.Read.Transactions + Instructions.Issued + Eligible.Warps.Per.Active.Cycle +
##   FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
##   fb_subp0_write_sectors + fb_subp1_write_sectors + inst_issued1 +
##   Block.X
```

```

##
##
## - Eligible.Warps.Per.Active.Cycle 1 8.0000e-09 0.00035707 -9254.4
## - Block.X 1 1.7000e-08 0.00035708 -9254.4
## - L2 1 3.4000e-08 0.00035710 -9254.4
## - inst_issued1 1 8.2000e-08 0.00035715 -9254.3
## - fb_subp0_write_sectors 1 9.2000e-08 0.00035716 -9254.3
## - Input.Size 1 1.4200e-07 0.00035721 -9254.2
## - fb_subp1_write_sectors 1 1.7800e-07 0.00035724 -9254.1
## - L2.Read.Transactions 1 3.4200e-07 0.00035741 -9253.8
## - Bus 1 3.4700e-07 0.00035741 -9253.8
## - Instructions.Issued 1 4.1700e-07 0.00035748 -9253.7
## - FLOP.Efficiency.Peak.Single. 1 7.4300e-07 0.00035781 -9253.1
## - Shared.Load.Transactions 1 8.7800e-07 0.00035794 -9252.8
## <none> 0.00035706 -9252.4
## - Device.Memory.Write.Transactions 1 2.2710e-06 0.00035933 -9250.3
## - Issue.Slot.Utilization 1 3.2390e-06 0.00036030 -9248.6
## - Issued.IPC 1 3.2410e-06 0.00036030 -9248.6
## - Memoryclock 1 3.3390e-06 0.00036040 -9248.4
## - fb_subp0_read_sectors 1 4.8945e-05 0.00040601 -9171.6
## - fb_subp1_read_sectors 1 9.5694e-05 0.00045276 -9101.3
## - Device.Memory.Read.Transactions 1 1.1368e-04 0.00047074 -9076.1
##
## Step: AIC=-9254.4
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Input.Size +
## Issued.IPC + Issue.Slot.Utilization + Shared.Load.Transactions +
## Device.Memory.Read.Transactions + Device.Memory.Write.Transactions +
## L2.Read.Transactions + Instructions.Issued + FLOP.Efficiency.Peak.Single. +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + inst_issued1 + Block.X
##
##
## Df Sum of Sq RSS AIC
## - Block.X 1 8.0000e-09 0.00035708 -9256.4
## - L2 1 3.0000e-08 0.00035710 -9256.3
## - fb_subp0_write_sectors 1 9.1000e-08 0.00035716 -9256.2
## - inst_issued1 1 1.2300e-07 0.00035719 -9256.2
## - fb_subp1_write_sectors 1 1.7900e-07 0.00035725 -9256.1
## - Input.Size 1 2.6000e-07 0.00035733 -9255.9
## - L2.Read.Transactions 1 3.4300e-07 0.00035741 -9255.8
## - Bus 1 3.4500e-07 0.00035742 -9255.8
## - Instructions.Issued 1 4.7700e-07 0.00035755 -9255.5
## - FLOP.Efficiency.Peak.Single. 1 7.5100e-07 0.00035782 -9255.0
## - Shared.Load.Transactions 1 8.8900e-07 0.00035796 -9254.8
## <none> 0.00035707 -9254.4
## - Device.Memory.Write.Transactions 1 2.2700e-06 0.00035934 -9252.3
## - Memoryclock 1 3.3330e-06 0.00036040 -9250.4
## - Issued.IPC 1 3.5020e-06 0.00036057 -9250.1
## - Issue.Slot.Utilization 1 3.5080e-06 0.00036058 -9250.1
## - fb_subp0_read_sectors 1 4.9110e-05 0.00040618 -9173.3
## - fb_subp1_read_sectors 1 9.5747e-05 0.00045282 -9103.2
## - Device.Memory.Read.Transactions 1 1.1370e-04 0.00047077 -9078.1
##
## Step: AIC=-9256.39
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Input.Size +

```

```

##      Issued.IPC + Issue.Slot.Utilization + Shared.Load.Transactions +
##      Device.Memory.Read.Transactions + Device.Memory.Write.Transactions +
##      L2.Read.Transactions + Instructions.Issued + FLOP.Efficiency.Peak.Single. +
##      fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##      fb_subp1_write_sectors + inst_issued1
##
##              Df  Sum of Sq      RSS      AIC
## - L2              1 3.0000e-08 0.00035711 -9258.3
## - fb_subp0_write_sectors 1 8.9000e-08 0.00035717 -9258.2
## - inst_issued1        1 1.1500e-07 0.00035719 -9258.2
## - fb_subp1_write_sectors 1 1.8100e-07 0.00035726 -9258.1
## - Bus              1 3.3900e-07 0.00035742 -9257.8
## - L2.Read.Transactions 1 3.4200e-07 0.00035742 -9257.8
## - Instructions.Issued  1 5.2700e-07 0.00035761 -9257.4
## - Input.Size          1 5.3300e-07 0.00035761 -9257.4
## - FLOP.Efficiency.Peak.Single. 1 7.7300e-07 0.00035785 -9257.0
## - Shared.Load.Transactions 1 8.8300e-07 0.00035796 -9256.8
## <none>              0.00035708 -9256.4
## - Device.Memory.Write.Transactions 1 2.3460e-06 0.00035943 -9254.2
## - Memoryclock        1 3.3580e-06 0.00036044 -9252.3
## - Issued.IPC          1 3.4940e-06 0.00036057 -9252.1
## - Issue.Slot.Utilization 1 3.5000e-06 0.00036058 -9252.1
## - fb_subp0_read_sectors 1 4.9192e-05 0.00040627 -9175.1
## - fb_subp1_read_sectors 1 9.5744e-05 0.00045282 -9105.2
## - Device.Memory.Read.Transactions 1 1.1370e-04 0.00047078 -9080.1
##
## Step:  AIC=-9258.33
## trainingSet$Duration ~ Bus + Memoryclock + Input.Size + Issued.IPC +
##      Issue.Slot.Utilization + Shared.Load.Transactions + Device.Memory.Read.Transactions +
##      Device.Memory.Write.Transactions + L2.Read.Transactions +
##      Instructions.Issued + FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors +
##      fb_subp1_read_sectors + fb_subp0_write_sectors + fb_subp1_write_sectors +
##      inst_issued1
##
##              Df  Sum of Sq      RSS      AIC
## - fb_subp0_write_sectors 1 7.5000e-08 0.00035718 -9260.2
## - inst_issued1          1 1.2000e-07 0.00035723 -9260.1
## - fb_subp1_write_sectors 1 2.1200e-07 0.00035732 -9260.0
## - L2.Read.Transactions  1 3.4500e-07 0.00035745 -9259.7
## - Input.Size            1 5.2400e-07 0.00035763 -9259.4
## - Instructions.Issued    1 5.2900e-07 0.00035764 -9259.4
## - FLOP.Efficiency.Peak.Single. 1 8.5300e-07 0.00035796 -9258.8
## - Shared.Load.Transactions 1 8.6800e-07 0.00035798 -9258.8
## <none>              0.00035711 -9258.3
## - Device.Memory.Write.Transactions 1 2.5770e-06 0.00035969 -9255.7
## - Issued.IPC            1 3.4920e-06 0.00036060 -9254.1
## - Issue.Slot.Utilization 1 3.4980e-06 0.00036061 -9254.0
## - Bus                  1 5.5700e-06 0.00036268 -9250.4
## - Memoryclock          1 2.6786e-05 0.00038390 -9213.7
## - fb_subp0_read_sectors 1 4.9575e-05 0.00040669 -9176.5
## - fb_subp1_read_sectors 1 9.5888e-05 0.00045300 -9106.9
## - Device.Memory.Read.Transactions 1 1.1595e-04 0.00047306 -9079.0
##
## Step:  AIC=-9260.2

```

```

## trainingSet$Duration ~ Bus + Memoryclock + Input.Size + Issued.IPC +
## Issue.Slot.Utilization + Shared.Load.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## Instructions.Issued + FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors +
## fb_subp1_read_sectors + fb_subp1_write_sectors + inst_issued1
##
##
##          Df Sum of Sq      RSS      AIC
## - inst_issued1          1 1.3000e-07 0.00035731 -9262.0
## - L2.Read.Transactions    1 3.6000e-07 0.00035754 -9261.5
## - Input.Size              1 5.4800e-07 0.00035773 -9261.2
## - Instructions.Issued     1 5.5700e-07 0.00035774 -9261.2
## - Shared.Load.Transactions 1 8.4900e-07 0.00035803 -9260.7
## - FLOP.Efficiency.Peak.Single. 1 8.8000e-07 0.00035806 -9260.6
## <none>                                0.00035718 -9260.2
## - Device.Memory.Write.Transactions 1 2.8840e-06 0.00036007 -9257.0
## - Issued.IPC              1 3.4370e-06 0.00036062 -9256.0
## - Issue.Slot.Utilization    1 3.4430e-06 0.00036063 -9256.0
## - Bus                      1 5.4980e-06 0.00036268 -9252.3
## - fb_subp1_write_sectors    1 7.2410e-06 0.00036443 -9249.3
## - Memoryclock              1 2.7789e-05 0.00038497 -9213.9
## - fb_subp0_read_sectors     1 5.0392e-05 0.00040758 -9177.1
## - fb_subp1_read_sectors     1 9.7428e-05 0.00045461 -9106.6
## - Device.Memory.Read.Transactions 1 1.1588e-04 0.00047306 -9081.0
##
## Step: AIC=-9261.96
## trainingSet$Duration ~ Bus + Memoryclock + Input.Size + Issued.IPC +
## Issue.Slot.Utilization + Shared.Load.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## Instructions.Issued + FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors +
## fb_subp1_read_sectors + fb_subp1_write_sectors
##
##
##          Df Sum of Sq      RSS      AIC
## - L2.Read.Transactions    1 3.5200e-07 0.00035767 -9263.3
## - Input.Size              1 6.1200e-07 0.00035793 -9262.9
## - Instructions.Issued     1 6.4800e-07 0.00035796 -9262.8
## - FLOP.Efficiency.Peak.Single. 1 8.3200e-07 0.00035815 -9262.5
## - Shared.Load.Transactions 1 8.4500e-07 0.00035816 -9262.4
## <none>                                0.00035731 -9262.0
## - Device.Memory.Write.Transactions 1 2.8880e-06 0.00036020 -9258.8
## - Issued.IPC              1 3.5010e-06 0.00036081 -9257.7
## - Issue.Slot.Utilization    1 3.5070e-06 0.00036082 -9257.7
## - Bus                      1 5.3900e-06 0.00036270 -9254.3
## - fb_subp1_write_sectors    1 7.4330e-06 0.00036475 -9250.7
## - Memoryclock              1 2.7670e-05 0.00038498 -9215.9
## - fb_subp0_read_sectors     1 5.0264e-05 0.00040758 -9179.1
## - fb_subp1_read_sectors     1 9.8442e-05 0.00045576 -9107.0
## - Device.Memory.Read.Transactions 1 1.1626e-04 0.00047358 -9082.3
##
## Step: AIC=-9263.33
## trainingSet$Duration ~ Bus + Memoryclock + Input.Size + Issued.IPC +
## Issue.Slot.Utilization + Shared.Load.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + Instructions.Issued +
## FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
## fb_subp1_write_sectors

```



```

##
##
##      Df Sum of Sq      RSS      AIC
## - Input.Size      1 6.4000e-07 0.00035831 -9264.2
## - Instructions.Issued      1 6.7600e-07 0.00035834 -9264.1
## - Shared.Load.Transactions      1 8.1800e-07 0.00035848 -9263.9
## - FLOP.Efficiency.Peak.Single.      1 8.8500e-07 0.00035855 -9263.7
## <none>                                0.00035767 -9263.3
## - Device.Memory.Write.Transactions      1 2.8840e-06 0.00036055 -9260.1
## - Issued.IPC      1 3.4430e-06 0.00036111 -9259.1
## - Issue.Slot.Utilization      1 3.4480e-06 0.00036111 -9259.1
## - Bus      1 5.3890e-06 0.00036306 -9255.7
## - fb_subp1_write_sectors      1 7.4380e-06 0.00036510 -9252.1
## - Memoryclock      1 2.7794e-05 0.00038546 -9217.1
## - fb_subp0_read_sectors      1 5.0443e-05 0.00040811 -9180.2
## - fb_subp1_read_sectors      1 9.8810e-05 0.00045648 -9108.0
## - Device.Memory.Read.Transactions      1 1.1643e-04 0.00047410 -9083.6
##
## Step: AIC=-9264.17
## trainingSet$Duration ~ Bus + Memoryclock + Issued.IPC + Issue.Slot.Utilization +
##   Shared.Load.Transactions + Device.Memory.Read.Transactions +
##   Device.Memory.Write.Transactions + Instructions.Issued +
##   FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
##   fb_subp1_write_sectors
##
##      Df Sum of Sq      RSS      AIC
## - Instructions.Issued      1 2.2500e-07 0.00035853 -9265.8
## - FLOP.Efficiency.Peak.Single.      1 8.3900e-07 0.00035915 -9264.7
## - Shared.Load.Transactions      1 9.2300e-07 0.00035923 -9264.5
## <none>                                0.00035831 -9264.2
## - Device.Memory.Write.Transactions      1 2.8720e-06 0.00036118 -9261.0
## - Issued.IPC      1 3.2150e-06 0.00036152 -9260.4
## - Issue.Slot.Utilization      1 3.2210e-06 0.00036153 -9260.4
## - fb_subp1_write_sectors      1 7.3910e-06 0.00036570 -9253.0
## - Bus      1 7.5130e-06 0.00036582 -9252.8
## - Memoryclock      1 2.7510e-05 0.00038582 -9218.5
## - fb_subp0_read_sectors      1 5.0084e-05 0.00040839 -9181.8
## - fb_subp1_read_sectors      1 9.8223e-05 0.00045653 -9109.9
## - Device.Memory.Read.Transactions      1 1.1795e-04 0.00047626 -9082.6
##
## Step: AIC=-9265.77
## trainingSet$Duration ~ Bus + Memoryclock + Issued.IPC + Issue.Slot.Utilization +
##   Shared.Load.Transactions + Device.Memory.Read.Transactions +
##   Device.Memory.Write.Transactions + FLOP.Efficiency.Peak.Single. +
##   fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp1_write_sectors
##
##      Df Sum of Sq      RSS      AIC
## - FLOP.Efficiency.Peak.Single.      1 7.7200e-07 0.00035930 -9266.4
## - Shared.Load.Transactions      1 9.2300e-07 0.00035945 -9266.1
## <none>                                0.00035853 -9265.8
## - Issued.IPC      1 3.2260e-06 0.00036176 -9262.0
## - Issue.Slot.Utilization      1 3.2320e-06 0.00036176 -9262.0
## - Bus      1 7.2890e-06 0.00036582 -9254.8
## - fb_subp1_write_sectors      1 7.9070e-06 0.00036644 -9253.7
## - Memoryclock      1 3.1664e-05 0.00039020 -9213.2

```

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## - fb_subp0_read_sectors          1 5.0754e-05 0.00040929 -9182.4
## - fb_subp1_read_sectors          1 9.8349e-05 0.00045688 -9111.4
## - Device.Memory.Read.Transactions 1 1.1892e-04 0.00047745 -9083.0
## - Device.Memory.Write.Transactions 1 1.6878e-04 0.00052731 -9018.9
##
## Step: AIC=-9266.38
## trainingSet$Duration ~ Bus + Memoryclock + Issued.IPC + Issue.Slot.Utilization +
##   Shared.Load.Transactions + Device.Memory.Read.Transactions +
##   Device.Memory.Write.Transactions + fb_subp0_read_sectors +
##   fb_subp1_read_sectors + fb_subp1_write_sectors
##
##              Df Sum of Sq      RSS      AIC
## - Shared.Load.Transactions      1 9.9400e-07 0.00036030 -9266.6
## <none>                          0.00035930 -9266.4
## - fb_subp1_write_sectors         1 7.9800e-06 0.00036728 -9254.2
## - Bus                           1 8.7530e-06 0.00036806 -9252.9
## - Issue.Slot.Utilization         1 9.8830e-06 0.00036919 -9250.9
## - Issued.IPC                    1 9.8850e-06 0.00036919 -9250.9
## - Memoryclock                   1 3.9396e-05 0.00039870 -9201.3
## - fb_subp0_read_sectors          1 5.0657e-05 0.00040996 -9183.3
## - fb_subp1_read_sectors          1 9.8572e-05 0.00045788 -9112.0
## - Device.Memory.Read.Transactions 1 1.2031e-04 0.00047961 -9082.1
## - Device.Memory.Write.Transactions 1 1.6949e-04 0.00052879 -9019.1
##
## Step: AIC=-9266.6
## trainingSet$Duration ~ Bus + Memoryclock + Issued.IPC + Issue.Slot.Utilization +
##   Device.Memory.Read.Transactions + Device.Memory.Write.Transactions +
##   fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp1_write_sectors
##
##              Df Sum of Sq      RSS      AIC
## <none>                          0.00036030 -9266.6
## - fb_subp1_write_sectors         1 7.5980e-06 0.00036790 -9255.1
## - Bus                           1 8.6150e-06 0.00036891 -9253.4
## - Issue.Slot.Utilization         1 9.6220e-06 0.00036992 -9251.6
## - Issued.IPC                    1 9.6230e-06 0.00036992 -9251.6
## - Memoryclock                   1 3.9657e-05 0.00039995 -9201.3
## - fb_subp0_read_sectors          1 5.1546e-05 0.00041184 -9182.4
## - fb_subp1_read_sectors          1 9.7699e-05 0.00045800 -9113.8
## - Device.Memory.Read.Transactions 1 1.2059e-04 0.00048089 -9082.4
## - Device.Memory.Write.Transactions 1 1.7155e-04 0.00053184 -9017.4
## Start: AIC=-6337.16
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##   Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##   Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##   Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##   Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
##   Global.Store.Transactions + Device.Memory.Read.Transactions +
##   Device.Memory.Write.Transactions + L2.Read.Transactions +
##   L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
##   Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##   Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
##   Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
##   Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
##   Control.Flow.Instructions + Misc.Instructions + Eligible.Warps.Per.Active.Cycle +

```

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##      FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
##      fb_subp0_write_sectors + fb_subp1_write_sectors + warps_launched +
##      inst_executed + inst_issued1 + inst_issued2 + gld_inst_32bit +
##      gst_inst_32bit + Grid.X + Block.X
##
##
## Step:  AIC=-6337.16
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##      Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##      Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
##      Global.Store.Transactions + Device.Memory.Read.Transactions +
##      Device.Memory.Write.Transactions + L2.Read.Transactions +
##      L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
##      Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##      Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
##      Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
##      Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
##      Control.Flow.Instructions + Misc.Instructions + Eligible.Warps.Per.Active.Cycle +
##      FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
##      fb_subp0_write_sectors + fb_subp1_write_sectors + warps_launched +
##      inst_executed + inst_issued1 + inst_issued2 + gld_inst_32bit +
##      gst_inst_32bit + Grid.X
##
##
## Step:  AIC=-6337.16
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##      Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##      Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
##      Global.Store.Transactions + Device.Memory.Read.Transactions +
##      Device.Memory.Write.Transactions + L2.Read.Transactions +
##      L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
##      Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##      Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
##      Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
##      Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
##      Control.Flow.Instructions + Misc.Instructions + Eligible.Warps.Per.Active.Cycle +
##      FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
##      fb_subp0_write_sectors + fb_subp1_write_sectors + warps_launched +
##      inst_executed + inst_issued1 + inst_issued2 + gld_inst_32bit +
##      gst_inst_32bit
##
##
## Step:  AIC=-6337.16
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##      Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##      Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
##      Global.Store.Transactions + Device.Memory.Read.Transactions +
##      Device.Memory.Write.Transactions + L2.Read.Transactions +

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##      L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
##      Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##      Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
##      Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
##      Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
##      Control.Flow.Instructions + Misc.Instructions + Eligible.Warps.Per.Active.Cycle +
##      FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
##      fb_subp0_write_sectors + fb_subp1_write_sectors + warps_launched +
##      inst_executed + inst_issued1 + inst_issued2 + gld_inst_32bit
##
##
## Step:  AIC=-6337.16
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##      Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##      Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
##      Global.Store.Transactions + Device.Memory.Read.Transactions +
##      Device.Memory.Write.Transactions + L2.Read.Transactions +
##      L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
##      Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##      Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
##      Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
##      Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
##      Control.Flow.Instructions + Misc.Instructions + Eligible.Warps.Per.Active.Cycle +
##      FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
##      fb_subp0_write_sectors + fb_subp1_write_sectors + warps_launched +
##      inst_executed + inst_issued1 + inst_issued2
##
##
## Step:  AIC=-6337.16
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##      Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##      Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
##      Global.Store.Transactions + Device.Memory.Read.Transactions +
##      Device.Memory.Write.Transactions + L2.Read.Transactions +
##      L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
##      Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
##      Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
##      Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
##      Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
##      Control.Flow.Instructions + Misc.Instructions + Eligible.Warps.Per.Active.Cycle +
##      FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
##      fb_subp0_write_sectors + fb_subp1_write_sectors + warps_launched +
##      inst_executed + inst_issued1
##
##
## Step:  AIC=-6337.16
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
##      Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##      Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##      Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +

```

```

## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
## Control.Flow.Instructions + Misc.Instructions + Eligible.Warps.Per.Active.Cycle +
## FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
## fb_subp0_write_sectors + fb_subp1_write_sectors + warps_launched +
## inst_executed
##
##
## Step: AIC=-6337.16
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
## Control.Flow.Instructions + Misc.Instructions + Eligible.Warps.Per.Active.Cycle +
## FLOP.Efficiency.Peak.Single. + fb_subp0_read_sectors + fb_subp1_read_sectors +
## fb_subp0_write_sectors + fb_subp1_write_sectors + inst_executed
##
##
## Step: AIC=-6337.16
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
## Control.Flow.Instructions + Misc.Instructions + Eligible.Warps.Per.Active.Cycle +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + inst_executed
##
##
## Step: AIC=-6337.16
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +

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## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + FP.Instructions.Single. +
## Control.Flow.Instructions + Eligible.Warps.Per.Active.Cycle +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + inst_executed
##
##
## Step: AIC=-6337.16
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Issue.Slots + Control.Flow.Instructions +
## Eligible.Warps.Per.Active.Cycle + fb_subp0_read_sectors +
## fb_subp1_read_sectors + fb_subp0_write_sectors + fb_subp1_write_sectors +
## inst_executed
##
##
## Step: AIC=-6337.16
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Instructions.Issued + Control.Flow.Instructions + Eligible.Warps.Per.Active.Cycle +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + inst_executed
##
##
## Step: AIC=-6337.16
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +

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## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Instructions.Executed +
## Control.Flow.Instructions + Eligible.Warps.Per.Active.Cycle +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + inst_executed
##
##
## Step: AIC=-6337.16
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Floating.Point.Operations.Single.Precision.FMA. + Control.Flow.Instructions +
## Eligible.Warps.Per.Active.Cycle + fb_subp0_read_sectors +
## fb_subp1_read_sectors + fb_subp0_write_sectors + fb_subp1_write_sectors +
## inst_executed
##
##
## Step: AIC=-6337.16
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Floating.Point.Operations.Single.Precision. +
## Control.Flow.Instructions + Eligible.Warps.Per.Active.Cycle +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + inst_executed
##
##
## Step: AIC=-6337.16
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +

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## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Executed.Load.Store.Instructions + Control.Flow.Instructions +
## Eligible.Warps.Per.Active.Cycle + fb_subp0_read_sectors +
## fb_subp1_read_sectors + fb_subp0_write_sectors + fb_subp1_write_sectors +
## inst_executed
##
##
## Step: AIC=-6337.16
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Issued.Load.Store.Instructions +
## Control.Flow.Instructions + Eligible.Warps.Per.Active.Cycle +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + inst_executed
##
##
## Step: AIC=-6337.16
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
## Executed.Control.Flow.Instructions + Control.Flow.Instructions +
## Eligible.Warps.Per.Active.Cycle + fb_subp0_read_sectors +
## fb_subp1_read_sectors + fb_subp0_write_sectors + fb_subp1_write_sectors +
## inst_executed
##
##
## Step: AIC=-6337.16
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Global.Hit.Rate + Issued.Control.Flow.Instructions +
## Control.Flow.Instructions + Eligible.Warps.Per.Active.Cycle +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + inst_executed
##
##
## Step: AIC=-6337.16
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +

```



```

## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Global.Hit.Rate + Control.Flow.Instructions +
## Eligible.Warps.Per.Active.Cycle + fb_subp0_read_sectors +
## fb_subp1_read_sectors + fb_subp0_write_sectors + fb_subp1_write_sectors +
## inst_executed
##
##
## Step: AIC=-6337.16
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Global.Load.Transactions +
## Global.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Control.Flow.Instructions + Eligible.Warps.Per.Active.Cycle +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + inst_executed
##
##
## Step: AIC=-6337.16
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## 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.Transactions + L2.Write.Transactions + Control.Flow.Instructions +
## Eligible.Warps.Per.Active.Cycle + fb_subp0_read_sectors +
## fb_subp1_read_sectors + fb_subp0_write_sectors + fb_subp1_write_sectors +
## inst_executed
##
##
## Step: AIC=-6337.16
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Shared.Load.Transactions + Shared.Store.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Control.Flow.Instructions + Eligible.Warps.Per.Active.Cycle +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + inst_executed
##
##
## Step: AIC=-6337.16
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +

```

```

## Shared.Load.Transactions + Device.Memory.Read.Transactions +
## Device.Memory.Write.Transactions + L2.Read.Transactions +
## L2.Write.Transactions + Control.Flow.Instructions + Eligible.Warps.Per.Active.Cycle +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## fb_subp1_write_sectors + inst_executed
##
##
## Step: AIC=-6337.16
## trainingSet$Duration ~ L2 + Bus + Memoryclock + AppId + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Device.Memory.Read.Transactions + Device.Memory.Write.Transactions +
## L2.Read.Transactions + L2.Write.Transactions + Control.Flow.Instructions +
## Eligible.Warps.Per.Active.Cycle + fb_subp0_read_sectors +
## fb_subp1_read_sectors + fb_subp0_write_sectors + fb_subp1_write_sectors +
## inst_executed
##
##
## Step: AIC=-6337.16
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Input.Size +
## Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
## Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Device.Memory.Read.Transactions + Device.Memory.Write.Transactions +
## L2.Read.Transactions + L2.Write.Transactions + Control.Flow.Instructions +
## Eligible.Warps.Per.Active.Cycle + fb_subp0_read_sectors +
## fb_subp1_read_sectors + fb_subp0_write_sectors + fb_subp1_write_sectors +
## inst_executed
##
##
## Df Sum of Sq RSS
## - fb_subp1_write_sectors 1 0.00000021 0.0017737
## - L2 1 0.00000168 0.0017752
## - L2.Write.Transactions 1 0.00000174 0.0017753
## - Shared.Memory.Store.Transactions.Per.Request 1 0.00000180 0.0017753
## - Memoryclock 1 0.00000301 0.0017765
## - Bus 1 0.00000301 0.0017765
## - Issue.Slot.Utilization 1 0.00000447 0.0017780
## - Control.Flow.Instructions 1 0.00000478 0.0017783
## - Instructions.per.warp 1 0.00000479 0.0017783
## - Input.Size 1 0.00000479 0.0017783
## - Device.Memory.Write.Transactions 1 0.00000484 0.0017784
## - Issued.IPC 1 0.00000489 0.0017784
## - inst_executed 1 0.00000642 0.0017799
## - Global.Store.Transactions.Per.Request 1 0.00000688 0.0017804
## <none> 0.0017735
## - Eligible.Warps.Per.Active.Cycle 1 0.00000868 0.0017822
## - fb_subp0_write_sectors 1 0.00002216 0.0017957
## - Global.Load.Transactions.Per.Request 1 0.00003708 0.0018106
## - Shared.Memory.Load.Transactions.Per.Request 1 0.00003903 0.0018126
## - L2.Read.Transactions 1 0.00004501 0.0018185
## - fb_subp1_read_sectors 1 0.00054336 0.0023169
## - fb_subp0_read_sectors 1 0.00131785 0.0030914
## - Device.Memory.Read.Transactions 1 0.00204481 0.0038183

```

```

##                                     AIC
## - fb_subp1_write_sectors          -6339.1
## - L2                              -6338.7
## - L2.Write.Transactions           -6338.7
## - Shared.Memory.Store.Transactions.Per.Request -6338.6
## - Memoryclock                     -6338.3
## - Bus                             -6338.3
## - Issue.Slot.Utilization          -6337.9
## - Control.Flow.Instructions       -6337.8
## - Instructions.per.warp           -6337.8
## - Input.Size                      -6337.8
## - Device.Memory.Write.Transactions -6337.8
## - Issued.IPC                      -6337.8
## - inst_executed                   -6337.3
## - Global.Store.Transactions.Per.Request -6337.2
## <none>                            -6337.2
## - Eligible.Warps.Per.Active.Cycle -6336.7
## - fb_subp0_write_sectors          -6332.8
## - Global.Load.Transactions.Per.Request -6328.6
## - Shared.Memory.Load.Transactions.Per.Request -6328.1
## - L2.Read.Transactions            -6326.4
## - fb_subp1_read_sectors           -6203.4
## - fb_subp0_read_sectors           -6056.9
## - Device.Memory.Read.Transactions -5949.6
##
## Step: AIC=-6339.1
## trainingSet$Duration ~ L2 + Bus + Memoryclock + Input.Size +
##   Issued.IPC + Instructions.per.warp + Issue.Slot.Utilization +
##   Shared.Memory.Load.Transactions.Per.Request + Shared.Memory.Store.Transactions.Per.Request +
##   Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##   Device.Memory.Read.Transactions + Device.Memory.Write.Transactions +
##   L2.Read.Transactions + L2.Write.Transactions + Control.Flow.Instructions +
##   Eligible.Warps.Per.Active.Cycle + fb_subp0_read_sectors +
##   fb_subp1_read_sectors + fb_subp0_write_sectors + inst_executed
##
##                                     Df Sum of Sq      RSS
## - L2                             1 0.00000164 0.0017754
## - L2.Write.Transactions           1 0.00000170 0.0017754
## - Shared.Memory.Store.Transactions.Per.Request 1 0.00000179 0.0017755
## - Bus                             1 0.00000327 0.0017770
## - Memoryclock                     1 0.00000329 0.0017770
## - Issue.Slot.Utilization          1 0.00000428 0.0017780
## - Issued.IPC                      1 0.00000472 0.0017785
## - Device.Memory.Write.Transactions 1 0.00000506 0.0017788
## - Control.Flow.Instructions       1 0.00000511 0.0017788
## - Instructions.per.warp           1 0.00000511 0.0017788
## - Input.Size                      1 0.00000512 0.0017788
## - inst_executed                   1 0.00000623 0.0017800
## <none>                            0.0017737
## - Global.Store.Transactions.Per.Request 1 0.00000723 0.0017810
## - Eligible.Warps.Per.Active.Cycle 1 0.00000872 0.0017824
## - fb_subp0_write_sectors          1 0.00002324 0.0017970
## - Global.Load.Transactions.Per.Request 1 0.00003691 0.0018106
## - Shared.Memory.Load.Transactions.Per.Request 1 0.00003884 0.0018126

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## - L2.Read.Transactions          1 0.00004509 0.0018188
## - fb_subp1_read_sectors         1 0.00055047 0.0023242
## - fb_subp0_read_sectors         1 0.00133784 0.0031116
## - Device.Memory.Read.Transactions 1 0.00206260 0.0038363
##                                AIC
## - L2                            -6340.6
## - L2.Write.Transactions          -6340.6
## - Shared.Memory.Store.Transactions.Per.Request -6340.6
## - Bus                            -6340.2
## - Memoryclock                   -6340.2
## - Issue.Slot.Utilization         -6339.9
## - Issued.IPC                    -6339.7
## - Device.Memory.Write.Transactions -6339.7
## - Control.Flow.Instructions      -6339.6
## - Instructions.per.warp          -6339.6
## - Input.Size                    -6339.6
## - inst_executed                  -6339.3
## <none>                          -6339.1
## - Global.Store.Transactions.Per.Request -6339.0
## - Eligible.Warps.Per.Active.Cycle -6338.6
## - fb_subp0_write_sectors         -6334.5
## - Global.Load.Transactions.Per.Request -6330.6
## - Shared.Memory.Load.Transactions.Per.Request -6330.1
## - L2.Read.Transactions           -6328.3
## - fb_subp1_read_sectors          -6203.8
## - fb_subp0_read_sectors          -6055.6
## - Device.Memory.Read.Transactions -5949.2
##
## Step: AIC=-6340.63
## trainingSet$Duration ~ Bus + Memoryclock + Input.Size + Issued.IPC +
##   Instructions.per.warp + Issue.Slot.Utilization + Shared.Memory.Load.Transactions.Per.Request +
##   Shared.Memory.Store.Transactions.Per.Request + Global.Load.Transactions.Per.Request +
##   Global.Store.Transactions.Per.Request + Device.Memory.Read.Transactions +
##   Device.Memory.Write.Transactions + L2.Read.Transactions +
##   L2.Write.Transactions + Control.Flow.Instructions + Eligible.Warps.Per.Active.Cycle +
##   fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##   inst_executed
##
##                                Df Sum of Sq      RSS
## - Shared.Memory.Store.Transactions.Per.Request 1 0.00000153 0.0017769
## - L2.Write.Transactions                        1 0.00000164 0.0017770
## - Memoryclock                                1 0.00000256 0.0017779
## - Bus                                          1 0.00000276 0.0017781
## - Issue.Slot.Utilization                     1 0.00000355 0.0017789
## - Issued.IPC                                1 0.00000401 0.0017794
## - Device.Memory.Write.Transactions            1 0.00000536 0.0017807
## - Control.Flow.Instructions                  1 0.00000542 0.0017808
## - Instructions.per.warp                      1 0.00000542 0.0017808
## - Input.Size                                1 0.00000543 0.0017808
## <none>                                        0.0017754
## - Global.Store.Transactions.Per.Request      1 0.00000758 0.0017829
## - inst_executed                              1 0.00000836 0.0017837
## - fb_subp0_write_sectors                     1 0.00002379 0.0017992
## - Eligible.Warps.Per.Active.Cycle            1 0.00003450 0.0018099

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## - Global.Load.Transactions.Per.Request      1 0.00003545 0.0018108
## - Shared.Memory.Load.Transactions.Per.Request 1 0.00003738 0.0018128
## - L2.Read.Transactions                      1 0.00004425 0.0018196
## - fb_subp1_read_sectors                    1 0.00055477 0.0023301
## - fb_subp0_read_sectors                    1 0.00133693 0.0031123
## - Device.Memory.Read.Transactions          1 0.00206759 0.0038430
##                                             AIC
## - Shared.Memory.Store.Transactions.Per.Request -6342.2
## - L2.Write.Transactions                    -6342.2
## - Memoryclock                             -6341.9
## - Bus                                     -6341.8
## - Issue.Slot.Utilization                  -6341.6
## - Issued.IPC                             -6341.5
## - Device.Memory.Write.Transactions        -6341.1
## - Control.Flow.Instructions               -6341.1
## - Instructions.per.warp                   -6341.1
## - Input.Size                             -6341.1
## <none>                                    -6340.6
## - Global.Store.Transactions.Per.Request   -6340.5
## - inst_executed                           -6340.2
## - fb_subp0_write_sectors                  -6335.9
## - Eligible.Warps.Per.Active.Cycle         -6332.9
## - Global.Load.Transactions.Per.Request     -6332.6
## - Shared.Memory.Load.Transactions.Per.Request -6332.0
## - L2.Read.Transactions                    -6330.1
## - fb_subp1_read_sectors                   -6204.5
## - fb_subp0_read_sectors                   -6057.5
## - Device.Memory.Read.Transactions          -5950.3
##
## Step: AIC=-6342.19
## trainingSet$Duration ~ Bus + Memoryclock + Input.Size + Issued.IPC +
##   Instructions.per.warp + Issue.Slot.Utilization + Shared.Memory.Load.Transactions.Per.Request +
##   Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##   Device.Memory.Read.Transactions + Device.Memory.Write.Transactions +
##   L2.Read.Transactions + L2.Write.Transactions + Control.Flow.Instructions +
##   Eligible.Warps.Per.Active.Cycle + fb_subp0_read_sectors +
##   fb_subp1_read_sectors + fb_subp0_write_sectors + inst_executed
##
##                                     Df Sum of Sq      RSS
## - L2.Write.Transactions            1 0.00000167 0.0017786
## - Memoryclock                      1 0.00000252 0.0017794
## - Bus                              1 0.00000273 0.0017796
## - Issue.Slot.Utilization            1 0.00000365 0.0017806
## - Issued.IPC                       1 0.00000413 0.0017810
## - Device.Memory.Write.Transactions  1 0.00000517 0.0017821
## - Control.Flow.Instructions         1 0.00000539 0.0017823
## - Instructions.per.warp             1 0.00000540 0.0017823
## - Input.Size                       1 0.00000540 0.0017823
## <none>                             0.0017769
## - Global.Store.Transactions.Per.Request 1 0.00000756 0.0017845
## - inst_executed                     1 0.00000856 0.0017855
## - fb_subp0_write_sectors            1 0.00002364 0.0018005
## - Global.Load.Transactions.Per.Request 1 0.00003641 0.0018133
## - Eligible.Warps.Per.Active.Cycle    1 0.00003665 0.0018136

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## - Shared.Memory.Load.Transactions.Per.Request 1 0.00003827 0.0018152
## - L2.Read.Transactions 1 0.00004484 0.0018218
## - fb_subp1_read_sectors 1 0.00055417 0.0023311
## - fb_subp0_read_sectors 1 0.00133665 0.0031136
## - Device.Memory.Read.Transactions 1 0.00206610 0.0038430
##
## AIC
## - L2.Write.Transactions -6343.7
## - Memoryclock -6343.5
## - Bus -6343.4
## - Issue.Slot.Utilization -6343.1
## - Issued.IPC -6343.0
## - Device.Memory.Write.Transactions -6342.7
## - Control.Flow.Instructions -6342.6
## - Instructions.per.warp -6342.6
## - Input.Size -6342.6
## <none> -6342.2
## - Global.Store.Transactions.Per.Request -6342.0
## - inst_executed -6341.7
## - fb_subp0_write_sectors -6337.5
## - Global.Load.Transactions.Per.Request -6333.9
## - Eligible.Warps.Per.Active.Cycle -6333.8
## - Shared.Memory.Load.Transactions.Per.Request -6333.4
## - L2.Read.Transactions -6331.5
## - fb_subp1_read_sectors -6206.3
## - fb_subp0_read_sectors -6059.3
## - Device.Memory.Read.Transactions -5952.3
##
## Step: AIC=-6343.71
## trainingSet$Duration ~ Bus + Memoryclock + Input.Size + Issued.IPC +
## Instructions.per.warp + Issue.Slot.Utilization + Shared.Memory.Load.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Device.Memory.Read.Transactions + Device.Memory.Write.Transactions +
## L2.Read.Transactions + Control.Flow.Instructions + Eligible.Warps.Per.Active.Cycle +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## inst_executed
##
## Df Sum of Sq RSS
## - Memoryclock 1 0.00000274 0.0017813
## - Bus 1 0.00000296 0.0017815
## - Issue.Slot.Utilization 1 0.00000368 0.0017823
## - Issued.IPC 1 0.00000415 0.0017827
## - Device.Memory.Write.Transactions 1 0.00000500 0.0017836
## - Control.Flow.Instructions 1 0.00000570 0.0017843
## - Instructions.per.warp 1 0.00000570 0.0017843
## - Input.Size 1 0.00000570 0.0017843
## <none> 0.0017786
## - Global.Store.Transactions.Per.Request 1 0.00000793 0.0017865
## - inst_executed 1 0.00000858 0.0017872
## - fb_subp0_write_sectors 1 0.00002403 0.0018026
## - Eligible.Warps.Per.Active.Cycle 1 0.00003553 0.0018141
## - Global.Load.Transactions.Per.Request 1 0.00003817 0.0018168
## - Shared.Memory.Load.Transactions.Per.Request 1 0.00003994 0.0018185
## - L2.Read.Transactions 1 0.00004579 0.0018244
## - fb_subp1_read_sectors 1 0.00055453 0.0023331

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```

## - fb_subp0_read_sectors          1 0.00134122 0.0031198
## - Device.Memory.Read.Transactions 1 0.00206572 0.0038443
##                                AIC
## - Memoryclock                    -6344.9
## - Bus                            -6344.9
## - Issue.Slot.Utilization         -6344.7
## - Issued.IPC                     -6344.5
## - Device.Memory.Write.Transactions -6344.3
## - Control.Flow.Instructions      -6344.1
## - Instructions.per.warp          -6344.1
## - Input.Size                     -6344.1
## <none>                           -6343.7
## - Global.Store.Transactions.Per.Request -6343.4
## - inst_executed                  -6343.3
## - fb_subp0_write_sectors         -6338.9
## - Eligible.Warps.Per.Active.Cycle -6335.7
## - Global.Load.Transactions.Per.Request -6334.9
## - Shared.Memory.Load.Transactions.Per.Request -6334.4
## - L2.Read.Transactions           -6332.8
## - fb_subp1_read_sectors          -6207.8
## - fb_subp0_read_sectors          -6060.2
## - Device.Memory.Read.Transactions -5954.2
##
## Step: AIC=-6344.93
## trainingSet$Duration ~ Bus + Input.Size + Issued.IPC + Instructions.per.warp +
##   Issue.Slot.Utilization + Shared.Memory.Load.Transactions.Per.Request +
##   Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
##   Device.Memory.Read.Transactions + Device.Memory.Write.Transactions +
##   L2.Read.Transactions + Control.Flow.Instructions + Eligible.Warps.Per.Active.Cycle +
##   fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##   inst_executed
##
##                                Df Sum of Sq      RSS
## - Bus                        1 0.00000432 0.0017856
## - Issue.Slot.Utilization     1 0.00000594 0.0017873
## - Issued.IPC                 1 0.00000657 0.0017879
## <none>                       0.0017813
## - Device.Memory.Write.Transactions 1 0.00000717 0.0017885
## - inst_executed              1 0.00000842 0.0017897
## - fb_subp0_write_sectors      1 0.00002129 0.0018026
## - Eligible.Warps.Per.Active.Cycle 1 0.00003812 0.0018194
## - Global.Load.Transactions.Per.Request 1 0.00004016 0.0018215
## - Shared.Memory.Load.Transactions.Per.Request 1 0.00004185 0.0018232
## - L2.Read.Transactions        1 0.00004572 0.0018270
## - Global.Store.Transactions.Per.Request 1 0.00009355 0.0018749
## - Control.Flow.Instructions    1 0.00014413 0.0019255
## - Input.Size                  1 0.00014484 0.0019262
## - Instructions.per.warp        1 0.00014502 0.0019263
## - fb_subp1_read_sectors       1 0.00055654 0.0023379
## - fb_subp0_read_sectors       1 0.00136313 0.0031445
## - Device.Memory.Read.Transactions 1 0.00209636 0.0038777
##                                AIC
## - Bus                        -6345.7
## - Issue.Slot.Utilization     -6345.2

```

```

## - Issued.IPC -6345.1
## <none> -6344.9
## - Device.Memory.Write.Transactions -6344.9
## - inst_executed -6344.5
## - fb_subp0_write_sectors -6340.9
## - Eligible.Warps.Per.Active.Cycle -6336.2
## - Global.Load.Transactions.Per.Request -6335.6
## - Shared.Memory.Load.Transactions.Per.Request -6335.1
## - L2.Read.Transactions -6334.1
## - Global.Store.Transactions.Per.Request -6320.9
## - Control.Flow.Instructions -6307.4
## - Input.Size -6307.2
## - Instructions.per.warp -6307.2
## - fb_subp1_read_sectors -6208.8
## - fb_subp0_read_sectors -6058.2
## - Device.Memory.Read.Transactions -5951.8
##
## Step: AIC=-6345.7
## trainingSet$Duration ~ Input.Size + Issued.IPC + Instructions.per.warp +
## Issue.Slot.Utilization + Shared.Memory.Load.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Device.Memory.Read.Transactions + Device.Memory.Write.Transactions +
## L2.Read.Transactions + Control.Flow.Instructions + Eligible.Warps.Per.Active.Cycle +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## inst_executed
##
##
## Df Sum of Sq RSS
## - Device.Memory.Write.Transactions 1 0.00000373 0.0017894
## - Issue.Slot.Utilization 1 0.00000436 0.0017900
## - Issued.IPC 1 0.00000495 0.0017906
## - inst_executed 1 0.00000546 0.0017911
## <none> 0.0017856
## - fb_subp0_write_sectors 1 0.00001855 0.0018042
## - Eligible.Warps.Per.Active.Cycle 1 0.00004179 0.0018274
## - L2.Read.Transactions 1 0.00004518 0.0018308
## - Shared.Memory.Load.Transactions.Per.Request 1 0.00004630 0.0018319
## - Global.Load.Transactions.Per.Request 1 0.00004705 0.0018327
## - Global.Store.Transactions.Per.Request 1 0.00008925 0.0018749
## - Control.Flow.Instructions 1 0.00014625 0.0019319
## - Input.Size 1 0.00014703 0.0019327
## - Instructions.per.warp 1 0.00014715 0.0019328
## - fb_subp1_read_sectors 1 0.00057645 0.0023621
## - fb_subp0_read_sectors 1 0.00136092 0.0031466
## - Device.Memory.Read.Transactions 1 0.00209215 0.0038778
## AIC
## - Device.Memory.Write.Transactions -6346.6
## - Issue.Slot.Utilization -6346.5
## - Issued.IPC -6346.3
## - inst_executed -6346.1
## <none> -6345.7
## - fb_subp0_write_sectors -6342.4
## - Eligible.Warps.Per.Active.Cycle -6335.9
## - L2.Read.Transactions -6335.0
## - Shared.Memory.Load.Transactions.Per.Request -6334.7

```



```

## - Global.Load.Transactions.Per.Request -6334.5
## - Global.Store.Transactions.Per.Request -6322.9
## - Control.Flow.Instructions -6307.7
## - Input.Size -6307.5
## - Instructions.per.warp -6307.5
## - fb_subp1_read_sectors -6205.6
## - fb_subp0_read_sectors -6059.9
## - Device.Memory.Read.Transactions -5953.7
##
## Step: AIC=-6346.64
## trainingSet$Duration ~ Input.Size + Issued.IPC + Instructions.per.warp +
## Issue.Slot.Utilization + Shared.Memory.Load.Transactions.Per.Request +
## Global.Load.Transactions.Per.Request + Global.Store.Transactions.Per.Request +
## Device.Memory.Read.Transactions + L2.Read.Transactions +
## Control.Flow.Instructions + Eligible.Warps.Per.Active.Cycle +
## fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
## inst_executed
##
##
## Df Sum of Sq RSS
## - Issue.Slot.Utilization 1 0.00000227 0.0017916
## - Issued.IPC 1 0.00000273 0.0017921
## - inst_executed 1 0.00000455 0.0017939
## <none> 0.0017894
## - fb_subp0_write_sectors 1 0.00002196 0.0018113
## - Shared.Memory.Load.Transactions.Per.Request 1 0.00004262 0.0018320
## - Eligible.Warps.Per.Active.Cycle 1 0.00004352 0.0018329
## - Global.Load.Transactions.Per.Request 1 0.00004374 0.0018331
## - L2.Read.Transactions 1 0.00004576 0.0018351
## - Global.Store.Transactions.Per.Request 1 0.00009148 0.0018809
## - Control.Flow.Instructions 1 0.00015865 0.0019480
## - Input.Size 1 0.00015957 0.0019489
## - Instructions.per.warp 1 0.00015970 0.0019491
## - fb_subp1_read_sectors 1 0.00057847 0.0023678
## - fb_subp0_read_sectors 1 0.00138145 0.0031708
## - Device.Memory.Read.Transactions 1 0.00208854 0.0038779
## AIC
## - Issue.Slot.Utilization -6348.0
## - Issued.IPC -6347.9
## - inst_executed -6347.3
## <none> -6346.6
## - fb_subp0_write_sectors -6342.4
## - Shared.Memory.Load.Transactions.Per.Request -6336.7
## - Eligible.Warps.Per.Active.Cycle -6336.4
## - Global.Load.Transactions.Per.Request -6336.4
## - L2.Read.Transactions -6335.8
## - Global.Store.Transactions.Per.Request -6323.3
## - Control.Flow.Instructions -6305.5
## - Input.Size -6305.2
## - Instructions.per.warp -6305.2
## - fb_subp1_read_sectors -6206.3
## - fb_subp0_read_sectors -6058.0
## - Device.Memory.Read.Transactions -5955.7
##
## Step: AIC=-6347.99

```

```

## trainingSet$Duration ~ Input.Size + Issued.IPC + Instructions.per.warp +
##   Shared.Memory.Load.Transactions.Per.Request + Global.Load.Transactions.Per.Request +
##   Global.Store.Transactions.Per.Request + Device.Memory.Read.Transactions +
##   L2.Read.Transactions + Control.Flow.Instructions + Eligible.Warps.Per.Active.Cycle +
##   fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors +
##   inst_executed
##
##
##           Df Sum of Sq      RSS
## - inst_executed      1 0.00000302 0.0017947
## <none>                                0.0017916
## - fb_subp0_write_sectors      1 0.00001971 0.0018113
## - Shared.Memory.Load.Transactions.Per.Request      1 0.00004036 0.0018320
## - Global.Load.Transactions.Per.Request      1 0.00004163 0.0018333
## - Eligible.Warps.Per.Active.Cycle      1 0.00004223 0.0018339
## - L2.Read.Transactions      1 0.00004559 0.0018372
## - Issued.IPC      1 0.00006002 0.0018517
## - Global.Store.Transactions.Per.Request      1 0.00009622 0.0018879
## - Control.Flow.Instructions      1 0.00019739 0.0019890
## - Instructions.per.warp      1 0.00019845 0.0019901
## - Input.Size      1 0.00019860 0.0019902
## - fb_subp1_read_sectors      1 0.00058081 0.0023724
## - fb_subp0_read_sectors      1 0.00138983 0.0031815
## - Device.Memory.Read.Transactions      1 0.00209435 0.0038860
##           AIC
## - inst_executed      -6349.1
## <none>      -6348.0
## - fb_subp0_write_sectors      -6344.4
## - Shared.Memory.Load.Transactions.Per.Request      -6338.7
## - Global.Load.Transactions.Per.Request      -6338.3
## - Eligible.Warps.Per.Active.Cycle      -6338.2
## - L2.Read.Transactions      -6337.2
## - Issued.IPC      -6333.3
## - Global.Store.Transactions.Per.Request      -6323.4
## - Control.Flow.Instructions      -6296.9
## - Instructions.per.warp      -6296.6
## - Input.Size      -6296.6
## - fb_subp1_read_sectors      -6207.4
## - fb_subp0_read_sectors      -6058.3
## - Device.Memory.Read.Transactions      -5956.7
##
## Step:  AIC=-6349.14
## trainingSet$Duration ~ Input.Size + Issued.IPC + Instructions.per.warp +
##   Shared.Memory.Load.Transactions.Per.Request + Global.Load.Transactions.Per.Request +
##   Global.Store.Transactions.Per.Request + Device.Memory.Read.Transactions +
##   L2.Read.Transactions + Control.Flow.Instructions + Eligible.Warps.Per.Active.Cycle +
##   fb_subp0_read_sectors + fb_subp1_read_sectors + fb_subp0_write_sectors
##
##
##           Df Sum of Sq      RSS
## <none>                                0.0017947
## - fb_subp0_write_sectors      1 0.00001953 0.0018142
## - Shared.Memory.Load.Transactions.Per.Request      1 0.00004010 0.0018348
## - Global.Load.Transactions.Per.Request      1 0.00004138 0.0018360
## - Eligible.Warps.Per.Active.Cycle      1 0.00004241 0.0018371
## - L2.Read.Transactions      1 0.00004563 0.0018403

```

```

## - Issued.IPC 1 0.00006006 0.0018547
## - Global.Store.Transactions.Per.Request 1 0.00009336 0.0018880
## - Control.Flow.Instructions 1 0.00019662 0.0019913
## - Input.Size 1 0.00019783 0.0019925
## - Instructions.per.warp 1 0.00019796 0.0019926
## - fb_subp1_read_sectors 1 0.00058196 0.0023766
## - fb_subp0_read_sectors 1 0.00139499 0.0031896
## - Device.Memory.Read.Transactions 1 0.00209889 0.0038935
## AIC
## <none> -6349.1
## - fb_subp0_write_sectors -6345.6
## - Shared.Memory.Load.Transactions.Per.Request -6339.9
## - Global.Load.Transactions.Per.Request -6339.6
## - Eligible.Warps.Per.Active.Cycle -6339.3
## - L2.Read.Transactions -6338.4
## - Issued.IPC -6334.4
## - Global.Store.Transactions.Per.Request -6325.4
## - Control.Flow.Instructions -6298.3
## - Input.Size -6298.0
## - Instructions.per.warp -6298.0
## - fb_subp1_read_sectors -6208.5
## - fb_subp0_read_sectors -6059.0
## - Device.Memory.Read.Transactions -5957.7

```

result

##	GpuName	AppName	Input.Size	Block.X
## 9	GTX-680	matMul_gpu_uncoalesced	2304	8
## 10	GTX-680	matMul_gpu_uncoalesced	2560	8
## 11	GTX-680	matMul_gpu_uncoalesced	2816	8
## 12	GTX-680	matMul_gpu_uncoalesced	3072	8
## 13	GTX-680	matMul_gpu_uncoalesced	3328	8
## 14	GTX-680	matMul_gpu_uncoalesced	3584	8
## 41	GTX-680	matMul_gpu_uncoalesced	2304	16
## 42	GTX-680	matMul_gpu_uncoalesced	2560	16
## 43	GTX-680	matMul_gpu_uncoalesced	2816	16
## 73	GTX-680	matMul_gpu_uncoalesced	2304	32
## 1060	Tesla-K40	matMul_gpu_uncoalesced	2304	8
## 1061	Tesla-K40	matMul_gpu_uncoalesced	2560	8
## 1062	Tesla-K40	matMul_gpu_uncoalesced	2816	8
## 1063	Tesla-K40	matMul_gpu_uncoalesced	3072	8
## 1064	Tesla-K40	matMul_gpu_uncoalesced	3328	8
## 1065	Tesla-K40	matMul_gpu_uncoalesced	3584	8
## 1066	Tesla-K40	matMul_gpu_uncoalesced	3840	8
## 1092	Tesla-K40	matMul_gpu_uncoalesced	2304	16
## 2188	Tesla-K20	matMul_gpu_uncoalesced	2304	8
## 2189	Tesla-K20	matMul_gpu_uncoalesced	2560	8
## 2190	Tesla-K20	matMul_gpu_uncoalesced	2816	8
## 2191	Tesla-K20	matMul_gpu_uncoalesced	3072	8
## 2192	Tesla-K20	matMul_gpu_uncoalesced	3328	8
## 2193	Tesla-K20	matMul_gpu_uncoalesced	3584	8
## 2194	Tesla-K20	matMul_gpu_uncoalesced	3840	8
## 2220	Tesla-K20	matMul_gpu_uncoalesced	2304	16
## 3316	TitanBlack	matMul_gpu_uncoalesced	2304	8

## 3317	TitanBlack	matMul_gpu_uncoalesced	2560	8
## 3318	TitanBlack	matMul_gpu_uncoalesced	2816	8
## 3319	TitanBlack	matMul_gpu_uncoalesced	3072	8
## 3320	TitanBlack	matMul_gpu_uncoalesced	3328	8
## 3321	TitanBlack	matMul_gpu_uncoalesced	3584	8
## 3322	TitanBlack	matMul_gpu_uncoalesced	3840	8
## 3348	TitanBlack	matMul_gpu_uncoalesced	2304	16
## 4444	Titan	matMul_gpu_uncoalesced	2304	8
## 4445	Titan	matMul_gpu_uncoalesced	2560	8
## 4446	Titan	matMul_gpu_uncoalesced	2816	8
## 4447	Titan	matMul_gpu_uncoalesced	3072	8
## 4448	Titan	matMul_gpu_uncoalesced	3328	8
## 4449	Titan	matMul_gpu_uncoalesced	3584	8
## 4450	Titan	matMul_gpu_uncoalesced	3840	8
## 4476	Titan	matMul_gpu_uncoalesced	2304	16
## 5572	Quadro	matMul_gpu_uncoalesced	2304	8
## 5573	Quadro	matMul_gpu_uncoalesced	2560	8
## 5574	Quadro	matMul_gpu_uncoalesced	2816	8
## 5575	Quadro	matMul_gpu_uncoalesced	3072	8
## 5576	Quadro	matMul_gpu_uncoalesced	3328	8
## 5577	Quadro	matMul_gpu_uncoalesced	3584	8
## 5578	Quadro	matMul_gpu_uncoalesced	3840	8
## 5604	Quadro	matMul_gpu_uncoalesced	2304	16
## 105	GTX-680	matMul_gpu	2304	8
## 106	GTX-680	matMul_gpu	2560	8
## 107	GTX-680	matMul_gpu	2816	8
## 108	GTX-680	matMul_gpu	3072	8
## 109	GTX-680	matMul_gpu	3328	8
## 110	GTX-680	matMul_gpu	3584	8
## 111	GTX-680	matMul_gpu	3840	8
## 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
## 169	GTX-680	matMul_gpu	2304	32
## 170	GTX-680	matMul_gpu	2560	32
## 171	GTX-680	matMul_gpu	2816	32
## 172	GTX-680	matMul_gpu	3072	32
## 173	GTX-680	matMul_gpu	3328	32
## 174	GTX-680	matMul_gpu	3584	32
## 175	GTX-680	matMul_gpu	3840	32
## 1156	Tesla-K40	matMul_gpu	2304	8
## 1157	Tesla-K40	matMul_gpu	2560	8
## 1158	Tesla-K40	matMul_gpu	2816	8
## 1159	Tesla-K40	matMul_gpu	3072	8
## 1160	Tesla-K40	matMul_gpu	3328	8
## 1161	Tesla-K40	matMul_gpu	3584	8
## 1162	Tesla-K40	matMul_gpu	3840	8
## 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
## 1220	Tesla-K40	matMul_gpu	2304	32
## 1221	Tesla-K40	matMul_gpu	2560	32
## 1222	Tesla-K40	matMul_gpu	2816	32
## 1223	Tesla-K40	matMul_gpu	3072	32
## 1224	Tesla-K40	matMul_gpu	3328	32
## 1225	Tesla-K40	matMul_gpu	3584	32
## 1226	Tesla-K40	matMul_gpu	3840	32
## 2284	Tesla-K20	matMul_gpu	2304	8
## 2285	Tesla-K20	matMul_gpu	2560	8
## 2286	Tesla-K20	matMul_gpu	2816	8
## 2287	Tesla-K20	matMul_gpu	3072	8
## 2288	Tesla-K20	matMul_gpu	3328	8
## 2289	Tesla-K20	matMul_gpu	3584	8
## 2290	Tesla-K20	matMul_gpu	3840	8
## 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
## 2348	Tesla-K20	matMul_gpu	2304	32
## 2349	Tesla-K20	matMul_gpu	2560	32
## 2350	Tesla-K20	matMul_gpu	2816	32
## 2351	Tesla-K20	matMul_gpu	3072	32
## 2352	Tesla-K20	matMul_gpu	3328	32
## 2353	Tesla-K20	matMul_gpu	3584	32
## 2354	Tesla-K20	matMul_gpu	3840	32
## 3412	TitanBlack	matMul_gpu	2304	8
## 3413	TitanBlack	matMul_gpu	2560	8
## 3414	TitanBlack	matMul_gpu	2816	8
## 3415	TitanBlack	matMul_gpu	3072	8
## 3416	TitanBlack	matMul_gpu	3328	8
## 3417	TitanBlack	matMul_gpu	3584	8
## 3418	TitanBlack	matMul_gpu	3840	8
## 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
## 3449	TitanBlack	matMul_gpu	3584	16
## 3450	TitanBlack	matMul_gpu	3840	16
## 3476	TitanBlack	matMul_gpu	2304	32
## 3477	TitanBlack	matMul_gpu	2560	32
## 3478	TitanBlack	matMul_gpu	2816	32
## 3479	TitanBlack	matMul_gpu	3072	32
## 3480	TitanBlack	matMul_gpu	3328	32
## 3481	TitanBlack	matMul_gpu	3584	32
## 3482	TitanBlack	matMul_gpu	3840	32
## 4540	Titan	matMul_gpu	2304	8

## 4541	Titan	matMul_gpu	2560	8
## 4542	Titan	matMul_gpu	2816	8
## 4543	Titan	matMul_gpu	3072	8
## 4544	Titan	matMul_gpu	3328	8
## 4545	Titan	matMul_gpu	3584	8
## 4546	Titan	matMul_gpu	3840	8
## 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
## 4604	Titan	matMul_gpu	2304	32
## 4605	Titan	matMul_gpu	2560	32
## 4606	Titan	matMul_gpu	2816	32
## 4607	Titan	matMul_gpu	3072	32
## 4608	Titan	matMul_gpu	3328	32
## 4609	Titan	matMul_gpu	3584	32
## 4610	Titan	matMul_gpu	3840	32
## 5652	Quadro	matMul_gpu	2304	8
## 5653	Quadro	matMul_gpu	2560	8
## 5654	Quadro	matMul_gpu	2816	8
## 5655	Quadro	matMul_gpu	3072	8
## 5656	Quadro	matMul_gpu	3328	8
## 5657	Quadro	matMul_gpu	3584	8
## 5658	Quadro	matMul_gpu	3840	8
## 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
## 5700	Quadro	matMul_gpu	2304	32
## 5701	Quadro	matMul_gpu	2560	32
## 5702	Quadro	matMul_gpu	2816	32
## 5703	Quadro	matMul_gpu	3072	32
## 5704	Quadro	matMul_gpu	3328	32
## 5705	Quadro	matMul_gpu	3584	32
## 5706	Quadro	matMul_gpu	3840	32
## 201	GTX-680	matMul_gpu_sharedmem_uncoalesced	2304	8
## 202	GTX-680	matMul_gpu_sharedmem_uncoalesced	2560	8
## 203	GTX-680	matMul_gpu_sharedmem_uncoalesced	2816	8
## 204	GTX-680	matMul_gpu_sharedmem_uncoalesced	3072	8
## 205	GTX-680	matMul_gpu_sharedmem_uncoalesced	3328	8
## 206	GTX-680	matMul_gpu_sharedmem_uncoalesced	3584	8
## 207	GTX-680	matMul_gpu_sharedmem_uncoalesced	3840	8
## 233	GTX-680	matMul_gpu_sharedmem_uncoalesced	2304	16
## 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	16
## 237	GTX-680	matMul_gpu_sharedmem_uncoalesced	3328	16
## 238	GTX-680	matMul_gpu_sharedmem_uncoalesced	3584	16

## 239	GTX-680	matMul_gpu_sharedmem_uncoalesced	3840	16
## 265	GTX-680	matMul_gpu_sharedmem_uncoalesced	2304	32
## 266	GTX-680	matMul_gpu_sharedmem_uncoalesced	2560	32
## 267	GTX-680	matMul_gpu_sharedmem_uncoalesced	2816	32
## 268	GTX-680	matMul_gpu_sharedmem_uncoalesced	3072	32
## 269	GTX-680	matMul_gpu_sharedmem_uncoalesced	3328	32
## 270	GTX-680	matMul_gpu_sharedmem_uncoalesced	3584	32
## 271	GTX-680	matMul_gpu_sharedmem_uncoalesced	3840	32
## 1252	Tesla-K40	matMul_gpu_sharedmem_uncoalesced	2304	8
## 1253	Tesla-K40	matMul_gpu_sharedmem_uncoalesced	2560	8
## 1254	Tesla-K40	matMul_gpu_sharedmem_uncoalesced	2816	8
## 1255	Tesla-K40	matMul_gpu_sharedmem_uncoalesced	3072	8
## 1256	Tesla-K40	matMul_gpu_sharedmem_uncoalesced	3328	8
## 1257	Tesla-K40	matMul_gpu_sharedmem_uncoalesced	3584	8
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## 1614	Tesla-K40	matrix_sum_coalesced	4864	32
## 1615	Tesla-K40	matrix_sum_coalesced	5120	32
## 2676	Tesla-K20	matrix_sum_coalesced	4352	8
## 2677	Tesla-K20	matrix_sum_coalesced	4608	8
## 2678	Tesla-K20	matrix_sum_coalesced	4864	8
## 2679	Tesla-K20	matrix_sum_coalesced	5120	8
## 2708	Tesla-K20	matrix_sum_coalesced	4352	16
## 2709	Tesla-K20	matrix_sum_coalesced	4608	16
## 2710	Tesla-K20	matrix_sum_coalesced	4864	16
## 2711	Tesla-K20	matrix_sum_coalesced	5120	16
## 2740	Tesla-K20	matrix_sum_coalesced	4352	32
## 2741	Tesla-K20	matrix_sum_coalesced	4608	32
## 2742	Tesla-K20	matrix_sum_coalesced	4864	32
## 2743	Tesla-K20	matrix_sum_coalesced	5120	32
## 3804	TitanBlack	matrix_sum_coalesced	4352	8
## 3805	TitanBlack	matrix_sum_coalesced	4608	8
## 3806	TitanBlack	matrix_sum_coalesced	4864	8
## 3807	TitanBlack	matrix_sum_coalesced	5120	8
## 3836	TitanBlack	matrix_sum_coalesced	4352	16
## 3837	TitanBlack	matrix_sum_coalesced	4608	16
## 3838	TitanBlack	matrix_sum_coalesced	4864	16
## 3839	TitanBlack	matrix_sum_coalesced	5120	16
## 3868	TitanBlack	matrix_sum_coalesced	4352	32
## 3869	TitanBlack	matrix_sum_coalesced	4608	32
## 3870	TitanBlack	matrix_sum_coalesced	4864	32
## 3871	TitanBlack	matrix_sum_coalesced	5120	32
## 4932	Titan	matrix_sum_coalesced	4352	8
## 4933	Titan	matrix_sum_coalesced	4608	8
## 4934	Titan	matrix_sum_coalesced	4864	8
## 4935	Titan	matrix_sum_coalesced	5120	8
## 4964	Titan	matrix_sum_coalesced	4352	16
## 4965	Titan	matrix_sum_coalesced	4608	16
## 4966	Titan	matrix_sum_coalesced	4864	16
## 4967	Titan	matrix_sum_coalesced	5120	16
## 4996	Titan	matrix_sum_coalesced	4352	32
## 4997	Titan	matrix_sum_coalesced	4608	32

## 4998	Titan	matrix_sum_coalesced	4864	32
## 4999	Titan	matrix_sum_coalesced	5120	32
## 6059	Quadro	matrix_sum_coalesced	4352	8
## 6060	Quadro	matrix_sum_coalesced	4608	8
## 6061	Quadro	matrix_sum_coalesced	4864	8
## 6062	Quadro	matrix_sum_coalesced	5120	8
## 6091	Quadro	matrix_sum_coalesced	4352	8
## 6092	Quadro	matrix_sum_coalesced	4608	8
## 6093	Quadro	matrix_sum_coalesced	4864	8
## 6094	Quadro	matrix_sum_coalesced	5120	8
## 6138	Quadro	matrix_sum_coalesced	4224	16
## 6139	Quadro	matrix_sum_coalesced	4352	16
## 6140	Quadro	matrix_sum_coalesced	4480	16
## 6141	Quadro	matrix_sum_coalesced	4608	16
## 6142	Quadro	matrix_sum_coalesced	4736	16
## 6143	Quadro	matrix_sum_coalesced	4864	16
## 6144	Quadro	matrix_sum_coalesced	4992	16
## 6145	Quadro	matrix_sum_coalesced	5120	16
## 6146	Quadro	matrix_sum_coalesced	5248	16
## 6186	Quadro	matrix_sum_coalesced	4352	32
## 6187	Quadro	matrix_sum_coalesced	4608	32
## 6188	Quadro	matrix_sum_coalesced	4864	32
## 6189	Quadro	matrix_sum_coalesced	5120	32
## 594	GTX-680	dotProd	54525952	64
## 595	GTX-680	dotProd	58720256	64
## 596	GTX-680	dotProd	62914560	64
## 597	GTX-680	dotProd	67108864	64
## 660	GTX-680	dotProd	54525952	256
## 661	GTX-680	dotProd	58720256	256
## 662	GTX-680	dotProd	62914560	256
## 663	GTX-680	dotProd	67108864	256
## 727	GTX-680	dotProd	54525952	1024
## 728	GTX-680	dotProd	58720256	1024
## 729	GTX-680	dotProd	62914560	1024
## 730	GTX-680	dotProd	67108864	1024
## 1645	Tesla-K40	dotProd	54525952	64
## 1646	Tesla-K40	dotProd	58720256	64
## 1647	Tesla-K40	dotProd	62914560	64
## 1648	Tesla-K40	dotProd	67108864	64
## 1714	Tesla-K40	dotProd	54525952	256
## 1715	Tesla-K40	dotProd	58720256	256
## 1716	Tesla-K40	dotProd	62914560	256
## 1717	Tesla-K40	dotProd	67108864	256
## 1783	Tesla-K40	dotProd	54525952	1024
## 1784	Tesla-K40	dotProd	58720256	1024
## 1785	Tesla-K40	dotProd	62914560	1024
## 1786	Tesla-K40	dotProd	67108864	1024
## 2773	Tesla-K20	dotProd	54525952	64
## 2774	Tesla-K20	dotProd	58720256	64
## 2775	Tesla-K20	dotProd	62914560	64
## 2776	Tesla-K20	dotProd	67108864	64
## 2842	Tesla-K20	dotProd	54525952	256
## 2843	Tesla-K20	dotProd	58720256	256
## 2844	Tesla-K20	dotProd	62914560	256

## 2845	Tesla-K20	dotProd	67108864	256
## 2911	Tesla-K20	dotProd	54525952	1024
## 2912	Tesla-K20	dotProd	58720256	1024
## 2913	Tesla-K20	dotProd	62914560	1024
## 2914	Tesla-K20	dotProd	67108864	1024
## 3901	TitanBlack	dotProd	54525952	64
## 3902	TitanBlack	dotProd	58720256	64
## 3903	TitanBlack	dotProd	62914560	64
## 3904	TitanBlack	dotProd	67108864	64
## 3970	TitanBlack	dotProd	54525952	256
## 3971	TitanBlack	dotProd	58720256	256
## 3972	TitanBlack	dotProd	62914560	256
## 3973	TitanBlack	dotProd	67108864	256
## 4039	TitanBlack	dotProd	54525952	1024
## 4040	TitanBlack	dotProd	58720256	1024
## 4041	TitanBlack	dotProd	62914560	1024
## 4042	TitanBlack	dotProd	67108864	1024
## 5029	Titan	dotProd	54525952	64
## 5030	Titan	dotProd	58720256	64
## 5031	Titan	dotProd	62914560	64
## 5032	Titan	dotProd	67108864	64
## 5098	Titan	dotProd	54525952	256
## 5099	Titan	dotProd	58720256	256
## 5100	Titan	dotProd	62914560	256
## 5101	Titan	dotProd	67108864	256
## 5167	Titan	dotProd	54525952	1024
## 5168	Titan	dotProd	58720256	1024
## 5169	Titan	dotProd	62914560	1024
## 5170	Titan	dotProd	67108864	1024
## 6219	Quadro	dotProd	54525952	64
## 6220	Quadro	dotProd	58720256	64
## 6221	Quadro	dotProd	62914560	64
## 6222	Quadro	dotProd	67108864	64
## 6288	Quadro	dotProd	54525952	256
## 6289	Quadro	dotProd	58720256	256
## 6290	Quadro	dotProd	62914560	256
## 6291	Quadro	dotProd	67108864	256
## 6357	Quadro	dotProd	54525952	1024
## 6358	Quadro	dotProd	58720256	1024
## 6359	Quadro	dotProd	62914560	1024
## 6360	Quadro	dotProd	67108864	1024
## 794	GTX-680	vectorAdd	54525952	64
## 795	GTX-680	vectorAdd	58720256	64
## 796	GTX-680	vectorAdd	62914560	64
## 797	GTX-680	vectorAdd	67108864	64
## 840	GTX-680	vectorAdd	54525952	256
## 841	GTX-680	vectorAdd	58720256	256
## 842	GTX-680	vectorAdd	62914560	256
## 843	GTX-680	vectorAdd	67108864	256
## 885	GTX-680	vectorAdd	54525952	1024
## 886	GTX-680	vectorAdd	58720256	1024
## 887	GTX-680	vectorAdd	62914560	1024
## 888	GTX-680	vectorAdd	67108864	1024
## 1852	Tesla-K40	vectorAdd	54525952	64

## 1853	Tesla-K40	vectorAdd	58720256	64
## 1854	Tesla-K40	vectorAdd	62914560	64
## 1855	Tesla-K40	vectorAdd	67108864	64
## 1921	Tesla-K40	vectorAdd	54525952	256
## 1922	Tesla-K40	vectorAdd	58720256	256
## 1923	Tesla-K40	vectorAdd	62914560	256
## 1924	Tesla-K40	vectorAdd	67108864	256
## 1990	Tesla-K40	vectorAdd	54525952	1024
## 1991	Tesla-K40	vectorAdd	58720256	1024
## 1992	Tesla-K40	vectorAdd	62914560	1024
## 1993	Tesla-K40	vectorAdd	67108864	1024
## 2980	Tesla-K20	vectorAdd	54525952	64
## 2981	Tesla-K20	vectorAdd	58720256	64
## 2982	Tesla-K20	vectorAdd	62914560	64
## 2983	Tesla-K20	vectorAdd	67108864	64
## 3049	Tesla-K20	vectorAdd	54525952	256
## 3050	Tesla-K20	vectorAdd	58720256	256
## 3051	Tesla-K20	vectorAdd	62914560	256
## 3052	Tesla-K20	vectorAdd	67108864	256
## 3118	Tesla-K20	vectorAdd	54525952	1024
## 3119	Tesla-K20	vectorAdd	58720256	1024
## 3120	Tesla-K20	vectorAdd	62914560	1024
## 3121	Tesla-K20	vectorAdd	67108864	1024
## 4108	TitanBlack	vectorAdd	54525952	64
## 4109	TitanBlack	vectorAdd	58720256	64
## 4110	TitanBlack	vectorAdd	62914560	64
## 4111	TitanBlack	vectorAdd	67108864	64
## 4177	TitanBlack	vectorAdd	54525952	256
## 4178	TitanBlack	vectorAdd	58720256	256
## 4179	TitanBlack	vectorAdd	62914560	256
## 4180	TitanBlack	vectorAdd	67108864	256
## 4246	TitanBlack	vectorAdd	54525952	1024
## 4247	TitanBlack	vectorAdd	58720256	1024
## 4248	TitanBlack	vectorAdd	62914560	1024
## 4249	TitanBlack	vectorAdd	67108864	1024
## 5236	Titan	vectorAdd	54525952	64
## 5237	Titan	vectorAdd	58720256	64
## 5238	Titan	vectorAdd	62914560	64
## 5239	Titan	vectorAdd	67108864	64
## 5305	Titan	vectorAdd	54525952	256
## 5306	Titan	vectorAdd	58720256	256
## 5307	Titan	vectorAdd	62914560	256
## 5308	Titan	vectorAdd	67108864	256
## 5374	Titan	vectorAdd	54525952	1024
## 5375	Titan	vectorAdd	58720256	1024
## 5376	Titan	vectorAdd	62914560	1024
## 5377	Titan	vectorAdd	67108864	1024
## 6426	Quadro	vectorAdd	54525952	64
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## 6428	Quadro	vectorAdd	62914560	64
## 6429	Quadro	vectorAdd	67108864	64
## 6495	Quadro	vectorAdd	54525952	256
## 6496	Quadro	vectorAdd	58720256	256
## 6497	Quadro	vectorAdd	62914560	256



## 6498	Quadro	vectorAdd	67108864	256
## 6564	Quadro	vectorAdd	54525952	1024
## 6565	Quadro	vectorAdd	58720256	1024
## 6566	Quadro	vectorAdd	62914560	1024
## 6567	Quadro	vectorAdd	67108864	1024
## 931	GTX-680	subSeqMax	54525952	128
## 932	GTX-680	subSeqMax	58720256	128
## 933	GTX-680	subSeqMax	62914560	128
## 934	GTX-680	subSeqMax	67108864	128
## 1000	GTX-680	subSeqMax	54525952	128
## 1001	GTX-680	subSeqMax	58720256	128
## 1002	GTX-680	subSeqMax	62914560	128
## 1003	GTX-680	subSeqMax	67108864	128
## 2059	Tesla-K40	subSeqMax	54525952	128
## 2060	Tesla-K40	subSeqMax	58720256	128
## 2061	Tesla-K40	subSeqMax	62914560	128
## 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	58720256	128
## 3189	Tesla-K20	subSeqMax	62914560	128
## 3190	Tesla-K20	subSeqMax	67108864	128
## 3256	Tesla-K20	subSeqMax	54525952	128
## 3257	Tesla-K20	subSeqMax	58720256	128
## 3258	Tesla-K20	subSeqMax	62914560	128
## 3259	Tesla-K20	subSeqMax	67108864	128
## 4315	TitanBlack	subSeqMax	54525952	128
## 4316	TitanBlack	subSeqMax	58720256	128
## 4317	TitanBlack	subSeqMax	62914560	128
## 4318	TitanBlack	subSeqMax	67108864	128
## 4384	TitanBlack	subSeqMax	54525952	128
## 4385	TitanBlack	subSeqMax	58720256	128
## 4386	TitanBlack	subSeqMax	62914560	128
## 4387	TitanBlack	subSeqMax	67108864	128
## 5443	Titan	subSeqMax	54525952	128
## 5444	Titan	subSeqMax	58720256	128
## 5445	Titan	subSeqMax	62914560	128
## 5446	Titan	subSeqMax	67108864	128
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## 5513	Titan	subSeqMax	58720256	128
## 5514	Titan	subSeqMax	62914560	128
## 5515	Titan	subSeqMax	67108864	128
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## 6703	Quadro	subSeqMax	58720256	128
## 6704	Quadro	subSeqMax	62914560	128
## 6705	Quadro	subSeqMax	67108864	128
## 91	GTX-750	matMul_gpu_uncoalesced	2304	8

## 101	GTX-750	matMul_gpu_uncoalesced	2560	8
## 112	GTX-750	matMul_gpu_uncoalesced	2816	8
## 121	GTX-750	matMul_gpu_uncoalesced	3072	8
## 411	GTX-750	matMul_gpu_uncoalesced	2304	16
## 421	GTX-750	matMul_gpu_uncoalesced	2560	16
## 431	GTX-750	matMul_gpu_uncoalesced	2816	16
## 44	GTX-750	matMul_gpu_uncoalesced	3072	16
## 731	GTX-750	matMul_gpu_uncoalesced	2304	32
## 8851	TitanX	matMul_gpu_uncoalesced	2304	8
## 8861	TitanX	matMul_gpu_uncoalesced	2560	8
## 8871	TitanX	matMul_gpu_uncoalesced	2816	8
## 8881	TitanX	matMul_gpu_uncoalesced	3072	8
## 889	TitanX	matMul_gpu_uncoalesced	3328	8
## 890	TitanX	matMul_gpu_uncoalesced	3584	8
## 891	TitanX	matMul_gpu_uncoalesced	3840	8
## 917	TitanX	matMul_gpu_uncoalesced	2304	16
## 918	TitanX	matMul_gpu_uncoalesced	2560	16
## 919	TitanX	matMul_gpu_uncoalesced	2816	16
## 920	TitanX	matMul_gpu_uncoalesced	3072	16
## 921	TitanX	matMul_gpu_uncoalesced	3328	16
## 922	TitanX	matMul_gpu_uncoalesced	3584	16
## 923	TitanX	matMul_gpu_uncoalesced	3840	16
## 949	TitanX	matMul_gpu_uncoalesced	2304	32
## 950	TitanX	matMul_gpu_uncoalesced	2560	32
## 951	TitanX	matMul_gpu_uncoalesced	2816	32
## 952	TitanX	matMul_gpu_uncoalesced	3072	32
## 953	TitanX	matMul_gpu_uncoalesced	3328	32
## 954	TitanX	matMul_gpu_uncoalesced	3584	32
## 955	TitanX	matMul_gpu_uncoalesced	3840	32
## 2077	GTX-980	matMul_gpu_uncoalesced	2304	8
## 2078	GTX-980	matMul_gpu_uncoalesced	2560	8
## 2079	GTX-980	matMul_gpu_uncoalesced	2816	8
## 2080	GTX-980	matMul_gpu_uncoalesced	3072	8
## 2081	GTX-980	matMul_gpu_uncoalesced	3328	8
## 2082	GTX-980	matMul_gpu_uncoalesced	3584	8
## 2083	GTX-980	matMul_gpu_uncoalesced	3840	8
## 2109	GTX-980	matMul_gpu_uncoalesced	2304	16
## 2110	GTX-980	matMul_gpu_uncoalesced	2560	16
## 2111	GTX-980	matMul_gpu_uncoalesced	2816	16
## 2112	GTX-980	matMul_gpu_uncoalesced	3072	16
## 2113	GTX-980	matMul_gpu_uncoalesced	3328	16
## 2114	GTX-980	matMul_gpu_uncoalesced	3584	16
## 2115	GTX-980	matMul_gpu_uncoalesced	3840	16
## 2141	GTX-980	matMul_gpu_uncoalesced	2304	32
## 2142	GTX-980	matMul_gpu_uncoalesced	2560	32
## 2143	GTX-980	matMul_gpu_uncoalesced	2816	32
## 2144	GTX-980	matMul_gpu_uncoalesced	3072	32
## 2145	GTX-980	matMul_gpu_uncoalesced	3328	32
## 2146	GTX-980	matMul_gpu_uncoalesced	3584	32
## 3205	GTX-970	matMul_gpu_uncoalesced	2304	8
## 3206	GTX-970	matMul_gpu_uncoalesced	2560	8
## 3207	GTX-970	matMul_gpu_uncoalesced	2816	8
## 3208	GTX-970	matMul_gpu_uncoalesced	3072	8
## 3209	GTX-970	matMul_gpu_uncoalesced	3328	8

## 3210	GTX-970	matMul_gpu_uncoalesced	3584	8
## 3211	GTX-970	matMul_gpu_uncoalesced	3840	8
## 3237	GTX-970	matMul_gpu_uncoalesced	2304	16
## 3238	GTX-970	matMul_gpu_uncoalesced	2560	16
## 3239	GTX-970	matMul_gpu_uncoalesced	2816	16
## 3240	GTX-970	matMul_gpu_uncoalesced	3072	16
## 3241	GTX-970	matMul_gpu_uncoalesced	3328	16
## 3242	GTX-970	matMul_gpu_uncoalesced	3584	16
## 3243	GTX-970	matMul_gpu_uncoalesced	3840	16
## 3269	GTX-970	matMul_gpu_uncoalesced	2304	32
## 3270	GTX-970	matMul_gpu_uncoalesced	2560	32
## 3271	GTX-970	matMul_gpu_uncoalesced	2816	32
## 3272	GTX-970	matMul_gpu_uncoalesced	3072	32
## 3273	GTX-970	matMul_gpu_uncoalesced	3328	32
## 3274	GTX-970	matMul_gpu_uncoalesced	3584	32
## 1052	GTX-750	matMul_gpu	2304	8
## 1067	GTX-750	matMul_gpu	2560	8
## 1071	GTX-750	matMul_gpu	2816	8
## 1081	GTX-750	matMul_gpu	3072	8
## 1091	GTX-750	matMul_gpu	3328	8
## 1101	GTX-750	matMul_gpu	3584	8
## 1111	GTX-750	matMul_gpu	3840	8
## 1371	GTX-750	matMul_gpu	2304	16
## 1387	GTX-750	matMul_gpu	2560	16
## 1391	GTX-750	matMul_gpu	2816	16
## 1401	GTX-750	matMul_gpu	3072	16
## 1411	GTX-750	matMul_gpu	3328	16
## 1421	GTX-750	matMul_gpu	3584	16
## 1431	GTX-750	matMul_gpu	3840	16
## 1691	GTX-750	matMul_gpu	2304	32
## 1701	GTX-750	matMul_gpu	2560	32
## 1711	GTX-750	matMul_gpu	2816	32
## 1721	GTX-750	matMul_gpu	3072	32
## 1731	GTX-750	matMul_gpu	3328	32
## 1741	GTX-750	matMul_gpu	3584	32
## 1751	GTX-750	matMul_gpu	3840	32
## 981	TitanX	matMul_gpu	2304	8
## 982	TitanX	matMul_gpu	2560	8
## 983	TitanX	matMul_gpu	2816	8
## 984	TitanX	matMul_gpu	3072	8
## 985	TitanX	matMul_gpu	3328	8
## 986	TitanX	matMul_gpu	3584	8
## 987	TitanX	matMul_gpu	3840	8
## 1013	TitanX	matMul_gpu	2304	16
## 1014	TitanX	matMul_gpu	2560	16
## 1015	TitanX	matMul_gpu	2816	16
## 1016	TitanX	matMul_gpu	3072	16
## 1017	TitanX	matMul_gpu	3328	16
## 1018	TitanX	matMul_gpu	3584	16
## 1019	TitanX	matMul_gpu	3840	16
## 1045	TitanX	matMul_gpu	2304	32
## 1046	TitanX	matMul_gpu	2560	32
## 1047	TitanX	matMul_gpu	2816	32
## 1048	TitanX	matMul_gpu	3072	32

## 1049	TitanX	matMul_gpu	3328	32
## 1050	TitanX	matMul_gpu	3584	32
## 1051	TitanX	matMul_gpu	3840	32
## 2173	GTX-980	matMul_gpu	2304	8
## 2174	GTX-980	matMul_gpu	2560	8
## 2175	GTX-980	matMul_gpu	2816	8
## 2176	GTX-980	matMul_gpu	3072	8
## 2177	GTX-980	matMul_gpu	3328	8
## 2178	GTX-980	matMul_gpu	3584	8
## 2179	GTX-980	matMul_gpu	3840	8
## 2205	GTX-980	matMul_gpu	2304	16
## 2206	GTX-980	matMul_gpu	2560	16
## 2207	GTX-980	matMul_gpu	2816	16
## 2208	GTX-980	matMul_gpu	3072	16
## 2209	GTX-980	matMul_gpu	3328	16
## 2210	GTX-980	matMul_gpu	3584	16
## 2211	GTX-980	matMul_gpu	3840	16
## 2237	GTX-980	matMul_gpu	2304	32
## 2238	GTX-980	matMul_gpu	2560	32
## 2239	GTX-980	matMul_gpu	2816	32
## 2240	GTX-980	matMul_gpu	3072	32
## 2241	GTX-980	matMul_gpu	3328	32
## 2242	GTX-980	matMul_gpu	3584	32
## 2243	GTX-980	matMul_gpu	3840	32
## 3301	GTX-970	matMul_gpu	2304	8
## 3302	GTX-970	matMul_gpu	2560	8
## 3303	GTX-970	matMul_gpu	2816	8
## 3304	GTX-970	matMul_gpu	3072	8
## 3305	GTX-970	matMul_gpu	3328	8
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## 3307	GTX-970	matMul_gpu	3840	8
## 3333	GTX-970	matMul_gpu	2304	16
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## 3339	GTX-970	matMul_gpu	3840	16
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## 3366	GTX-970	matMul_gpu	2560	32
## 3367	GTX-970	matMul_gpu	2816	32
## 3368	GTX-970	matMul_gpu	3072	32
## 3369	GTX-970	matMul_gpu	3328	32
## 3370	GTX-970	matMul_gpu	3584	32
## 3371	GTX-970	matMul_gpu	3840	32
## 2011	GTX-750	matMul_gpu_sharedmem_uncoalesced	2304	8
## 2021	GTX-750	matMul_gpu_sharedmem_uncoalesced	2560	8
## 2031	GTX-750	matMul_gpu_sharedmem_uncoalesced	2816	8
## 2041	GTX-750	matMul_gpu_sharedmem_uncoalesced	3072	8
## 2051	GTX-750	matMul_gpu_sharedmem_uncoalesced	3328	8
## 2063	GTX-750	matMul_gpu_sharedmem_uncoalesced	3584	8
## 2071	GTX-750	matMul_gpu_sharedmem_uncoalesced	3840	8
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## 2341	GTX-750	matMul_gpu_sharedmem_uncoalesced	2560	16

## 2355	GTX-750	matMul_gpu_sharedmem_uncoalesced	2816	16
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## 2387	GTX-750	matMul_gpu_sharedmem_uncoalesced	3584	16
## 2391	GTX-750	matMul_gpu_sharedmem_uncoalesced	3840	16
## 2651	GTX-750	matMul_gpu_sharedmem_uncoalesced	2304	32
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## 2691	GTX-750	matMul_gpu_sharedmem_uncoalesced	3328	32
## 2701	GTX-750	matMul_gpu_sharedmem_uncoalesced	3584	32
## 1077	TitanX	matMul_gpu_sharedmem_uncoalesced	2304	8
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## 11111	TitanX	matMul_gpu_sharedmem_uncoalesced	2816	16
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## 4031	GTX-750	matrix_sum_normal	4864	8
## 4043	GTX-750	matrix_sum_normal	5120	8

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## 4361	GTX-750	matrix_sum_normal	5120	16
## 4651	GTX-750	matrix_sum_normal	4352	32
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## 4675	GTX-750	matrix_sum_normal	4864	32
## 4681	GTX-750	matrix_sum_normal	5120	32
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## 2502	GTX-980	matrix_sum_normal	4608	16
## 2503	GTX-980	matrix_sum_normal	4864	16
## 2504	GTX-980	matrix_sum_normal	5120	16
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## 3599	GTX-970	matrix_sum_normal	4864	8
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## 36311	GTX-970	matrix_sum_normal	4864	16
## 3632	GTX-970	matrix_sum_normal	5120	16
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## 3662	GTX-970	matrix_sum_normal	4608	32
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## 3664	GTX-970	matrix_sum_normal	5120	32
## 4971	GTX-750	matrix_sum_coalesced	4352	8
## 4981	GTX-750	matrix_sum_coalesced	4608	8
## 4991	GTX-750	matrix_sum_coalesced	4864	8
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## 5301	GTX-750	matrix_sum_coalesced	4608	16



## 5311	GTX-750	matrix_sum_coalesced	4864	16
## 5321	GTX-750	matrix_sum_coalesced	5120	16
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## 1406	TitanX	matrix_sum_coalesced	4608	8
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## 1440	TitanX	matrix_sum_coalesced	5120	8
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## 3760	GTX-970	matrix_sum_coalesced	5120	32
## 5941	GTX-750	dotProd	54525952	64
## 5951	GTX-750	dotProd	58720256	64
## 5961	GTX-750	dotProd	62914560	64
## 5971	GTX-750	dotProd	67108864	64
## 628	GTX-750	dotProd	54525952	256
## 629	GTX-750	dotProd	58720256	256
## 630	GTX-750	dotProd	62914560	256
## 631	GTX-750	dotProd	67108864	256

## 6621	GTX-750	dotProd	54525952	1024
## 6631	GTX-750	dotProd	58720256	1024
## 664	GTX-750	dotProd	62914560	1024
## 665	GTX-750	dotProd	67108864	1024
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## 1535	TitanX	dotProd	58720256	64
## 1536	TitanX	dotProd	62914560	64
## 1537	TitanX	dotProd	67108864	64
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## 1604	TitanX	dotProd	58720256	256
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## 1673	TitanX	dotProd	58720256	1024
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## 2665	GTX-980	dotProd	67108864	64
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## 2732	GTX-980	dotProd	58720256	256
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## 2734	GTX-980	dotProd	67108864	256
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## 2801	GTX-980	dotProd	58720256	1024
## 2802	GTX-980	dotProd	62914560	1024
## 2803	GTX-980	dotProd	67108864	1024
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## 3860	GTX-970	dotProd	58720256	256
## 3861	GTX-970	dotProd	62914560	256
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## 3929	GTX-970	dotProd	58720256	1024
## 3930	GTX-970	dotProd	62914560	1024
## 3931	GTX-970	dotProd	67108864	1024
## 696	GTX-750	vectorAdd	54525952	64
## 697	GTX-750	vectorAdd	58720256	64
## 698	GTX-750	vectorAdd	62914560	64
## 699	GTX-750	vectorAdd	67108864	64
## 720	GTX-750	vectorAdd	54525952	256
## 721	GTX-750	vectorAdd	58720256	256
## 722	GTX-750	vectorAdd	62914560	256
## 723	GTX-750	vectorAdd	67108864	256
## 744	GTX-750	vectorAdd	54525952	1024
## 745	GTX-750	vectorAdd	58720256	1024
## 746	GTX-750	vectorAdd	62914560	1024
## 747	GTX-750	vectorAdd	67108864	1024
## 17411	TitanX	vectorAdd	54525952	64
## 1742	TitanX	vectorAdd	58720256	64

## 1743	TitanX	vectorAdd	62914560	64
## 1744	TitanX	vectorAdd	67108864	64
## 1810	TitanX	vectorAdd	54525952	256
## 1811	TitanX	vectorAdd	58720256	256
## 1812	TitanX	vectorAdd	62914560	256
## 1813	TitanX	vectorAdd	67108864	256
## 1879	TitanX	vectorAdd	54525952	1024
## 1880	TitanX	vectorAdd	58720256	1024
## 1881	TitanX	vectorAdd	62914560	1024
## 1882	TitanX	vectorAdd	67108864	1024
## 2869	GTX-980	vectorAdd	54525952	64
## 2870	GTX-980	vectorAdd	58720256	64
## 2871	GTX-980	vectorAdd	62914560	64
## 2872	GTX-980	vectorAdd	67108864	64
## 2938	GTX-980	vectorAdd	54525952	256
## 2939	GTX-980	vectorAdd	58720256	256
## 2940	GTX-980	vectorAdd	62914560	256
## 2941	GTX-980	vectorAdd	67108864	256
## 3007	GTX-980	vectorAdd	54525952	1024
## 3008	GTX-980	vectorAdd	58720256	1024
## 3009	GTX-980	vectorAdd	62914560	1024
## 3010	GTX-980	vectorAdd	67108864	1024
## 3997	GTX-970	vectorAdd	54525952	64
## 3998	GTX-970	vectorAdd	58720256	64
## 3999	GTX-970	vectorAdd	62914560	64
## 4000	GTX-970	vectorAdd	67108864	64
## 4066	GTX-970	vectorAdd	54525952	256
## 4067	GTX-970	vectorAdd	58720256	256
## 4068	GTX-970	vectorAdd	62914560	256
## 4069	GTX-970	vectorAdd	67108864	256
## 4135	GTX-970	vectorAdd	54525952	1024
## 4136	GTX-970	vectorAdd	58720256	1024
## 4137	GTX-970	vectorAdd	62914560	1024
## 4138	GTX-970	vectorAdd	67108864	1024
## 768	GTX-750	subSeqMax	54525952	128
## 769	GTX-750	subSeqMax	58720256	128
## 770	GTX-750	subSeqMax	62914560	128
## 771	GTX-750	subSeqMax	67108864	128
## 831	GTX-750	subSeqMax	54525952	128
## 832	GTX-750	subSeqMax	58720256	128
## 833	GTX-750	subSeqMax	62914560	128
## 834	GTX-750	subSeqMax	67108864	128
## 1948	TitanX	subSeqMax	54525952	128
## 1949	TitanX	subSeqMax	58720256	128
## 1950	TitanX	subSeqMax	62914560	128
## 1951	TitanX	subSeqMax	67108864	128
## 2017	TitanX	subSeqMax	54525952	128
## 2018	TitanX	subSeqMax	58720256	128
## 2019	TitanX	subSeqMax	62914560	128
## 2020	TitanX	subSeqMax	67108864	128
## 3076	GTX-980	subSeqMax	54525952	128
## 3077	GTX-980	subSeqMax	58720256	128
## 3078	GTX-980	subSeqMax	62914560	128
## 3079	GTX-980	subSeqMax	67108864	128

##	3145	GTX-980		subSeqMax	54525952	128	
##	3146	GTX-980		subSeqMax	58720256	128	
##	3147	GTX-980		subSeqMax	62914560	128	
##	3148	GTX-980		subSeqMax	67108864	128	
##	4204	GTX-970		subSeqMax	54525952	128	
##	4205	GTX-970		subSeqMax	58720256	128	
##	4206	GTX-970		subSeqMax	62914560	128	
##	4207	GTX-970		subSeqMax	67108864	128	
##	4273	GTX-970		subSeqMax	54525952	128	
##	4274	GTX-970		subSeqMax	58720256	128	
##	4275	GTX-970		subSeqMax	62914560	128	
##	4276	GTX-970		subSeqMax	67108864	128	
##		Duration	predictions	Duration.1	AccMin	AccMax	AccMean
##	9	0.899349000	0.8272905746	0.91987713	0.7382145	1.170336	1.0002976
##	10	1.226606000	1.2022553470	0.98014794	0.7382145	1.170336	1.0002976
##	11	1.642481000	1.2898864781	0.78532810	0.7382145	1.170336	1.0002976
##	12	2.132354000	2.3288692626	1.09215884	0.7382145	1.170336	1.0002976
##	13	2.711404000	2.0015977501	0.73821450	0.7382145	1.170336	1.0002976
##	14	3.349367000	2.7910940643	0.83331987	0.7382145	1.170336	1.0002976
##	41	1.636687000	1.2798976586	0.78200515	0.7382145	1.170336	1.0002976
##	42	2.527365000	2.9578656828	1.17033578	0.7382145	1.170336	1.0002976
##	43	2.966659000	2.8811092080	0.97116292	0.7382145	1.170336	1.0002976
##	73	3.015763000	2.8201119281	0.93512386	0.7382145	1.170336	1.0002976
##	1060	0.669089000	0.7574220711	1.13201991	0.7382145	1.170336	1.0002976
##	1061	0.917101000	0.9669729764	1.05438003	0.7382145	1.170336	1.0002976
##	1062	1.220711000	1.2706175977	1.04088322	0.7382145	1.170336	1.0002976
##	1063	1.586882000	1.7957249018	1.13160582	0.7382145	1.170336	1.0002976
##	1064	2.014439000	1.8916146051	0.93902799	0.7382145	1.170336	1.0002976
##	1065	2.516749000	2.5397838010	1.00915260	0.7382145	1.170336	1.0002976
##	1066	3.099520000	3.2507953839	1.04880607	0.7382145	1.170336	1.0002976
##	1092	1.202731000	1.2498542967	1.03918025	0.7382145	1.170336	1.0002976
##	2188	0.797254000	0.8554229307	1.07296160	0.7382145	1.170336	1.0002976
##	2189	1.092392000	1.0624463149	0.97258705	0.7382145	1.170336	1.0002976
##	2190	1.455887000	1.4171367039	0.97338372	0.7382145	1.170336	1.0002976
##	2191	1.891005000	1.9220787605	1.01643241	0.7382145	1.170336	1.0002976
##	2192	2.403841000	2.2770546676	0.94725677	0.7382145	1.170336	1.0002976
##	2193	3.002454000	2.8924279974	0.96335464	0.7382145	1.170336	1.0002976
##	2194	3.690089000	3.4964963534	0.94753713	0.7382145	1.170336	1.0002976
##	2220	1.459649000	1.3494944634	0.92453354	0.7382145	1.170336	1.0002976
##	3316	0.519319000	0.5379659219	1.03590649	0.7382145	1.170336	1.0002976
##	3317	0.692269000	0.7245675945	1.04665613	0.7382145	1.170336	1.0002976
##	3318	0.930705000	1.0098401219	1.08502707	0.7382145	1.170336	1.0002976
##	3319	1.187775000	1.3362691354	1.12501874	0.7382145	1.170336	1.0002976
##	3320	1.505103000	1.5448822559	1.02642959	0.7382145	1.170336	1.0002976
##	3321	1.865378000	1.9678314965	1.05492372	0.7382145	1.170336	1.0002976
##	3322	2.307473000	2.3964349905	1.03855386	0.7382145	1.170336	1.0002976
##	3348	0.905174000	1.0584916384	1.16937919	0.7382145	1.170336	1.0002976
##	4444	0.621636000	0.7037599138	1.13210933	0.7382145	1.170336	1.0002976
##	4445	0.850871000	0.9313156418	1.09454388	0.7382145	1.170336	1.0002976
##	4446	1.134609000	1.2192257677	1.07457791	0.7382145	1.170336	1.0002976
##	4447	1.476131000	1.5982076888	1.08270044	0.7382145	1.170336	1.0002976
##	4448	1.874391000	1.9475520416	1.03903190	0.7382145	1.170336	1.0002976
##	4449	2.346185000	2.3614903766	1.00652352	0.7382145	1.170336	1.0002976
##	4450	2.884816000	2.9942041943	1.03791860	0.7382145	1.170336	1.0002976

##	4476	1.137064000	1.1082601971	0.97466827	0.7382145	1.170336	1.0002976
##	5572	0.713397000	0.6953556573	0.97471066	0.7382145	1.170336	1.0002976
##	5573	0.986551000	1.0629029778	1.07739283	0.7382145	1.170336	1.0002976
##	5574	1.301645000	1.0861967542	0.83448003	0.7382145	1.170336	1.0002976
##	5575	1.714430000	1.8677382608	1.08942229	0.7382145	1.170336	1.0002976
##	5576	2.149493000	1.8418351977	0.85686960	0.7382145	1.170336	1.0002976
##	5577	2.716484000	2.7740470063	1.02119026	0.7382145	1.170336	1.0002976
##	5578	3.322397000	2.8488261863	0.85746110	0.7382145	1.170336	1.0002976
##	5604	1.336934000	1.1479001532	0.85860645	0.7382145	1.170336	1.0002976
##	105	0.479234000	0.5131161658	1.07070067	0.7646352	1.680373	1.0580376
##	106	0.657752000	0.7193319968	1.09362191	0.7646352	1.680373	1.0580376
##	107	0.875265000	0.9517942850	1.08743556	0.7646352	1.680373	1.0580376
##	108	1.137174000	1.1782738953	1.03614213	0.7646352	1.680373	1.0580376
##	109	1.445661000	1.5647019134	1.08234359	0.7646352	1.680373	1.0580376
##	110	1.806406000	1.9160036686	1.06067167	0.7646352	1.680373	1.0580376
##	111	2.221930000	2.4552173459	1.10499311	0.7646352	1.680373	1.0580376
##	137	0.374780000	0.3381641977	0.90230054	0.7646352	1.680373	1.0580376
##	138	0.514793000	0.4972370317	0.96589703	0.7646352	1.680373	1.0580376
##	139	0.683421000	0.6312587087	0.92367473	0.7646352	1.680373	1.0580376
##	140	0.879492000	0.6724905792	0.76463524	0.7646352	1.680373	1.0580376
##	141	1.118057000	1.0031299738	0.89720826	0.7646352	1.680373	1.0580376
##	142	1.396491000	1.2307757085	0.88133451	0.7646352	1.680373	1.0580376
##	143	1.718229000	1.9883897009	1.15723207	0.7646352	1.680373	1.0580376
##	169	0.239499000	0.3247539437	1.35597202	0.7646352	1.680373	1.0580376
##	170	0.330354000	0.4221431530	1.27785089	0.7646352	1.680373	1.0580376
##	171	0.440018000	0.5849374500	1.32934891	0.7646352	1.680373	1.0580376
##	172	0.578289000	0.8499487859	1.46976475	0.7646352	1.680373	1.0580376
##	173	0.726948000	0.8333630755	1.14638609	0.7646352	1.680373	1.0580376
##	174	0.906363000	1.4859505902	1.63946519	0.7646352	1.680373	1.0580376
##	175	1.119341000	1.8809105056	1.68037310	0.7646352	1.680373	1.0580376
##	1156	0.384288000	0.4648281769	1.20958286	0.7646352	1.680373	1.0580376
##	1157	0.527165000	0.7376993035	1.39937079	0.7646352	1.680373	1.0580376
##	1158	0.701035000	0.8038771515	1.14670045	0.7646352	1.680373	1.0580376
##	1159	0.894127000	1.0237888872	1.14501507	0.7646352	1.680373	1.0580376
##	1160	1.157092000	1.3658822952	1.18044399	0.7646352	1.680373	1.0580376
##	1161	1.445047000	1.5784376301	1.09230885	0.7646352	1.680373	1.0580376
##	1162	1.777683000	1.8419218201	1.03613626	0.7646352	1.680373	1.0580376
##	1188	0.264226000	0.3630347758	1.37395554	0.7646352	1.680373	1.0580376
##	1189	0.362266000	0.4646340233	1.28257696	0.7646352	1.680373	1.0580376
##	1190	0.482195000	0.6162103052	1.27792761	0.7646352	1.680373	1.0580376
##	1191	0.626173000	0.7852590498	1.25406086	0.7646352	1.680373	1.0580376
##	1192	0.796210000	0.9261571386	1.16320712	0.7646352	1.680373	1.0580376
##	1193	0.994182000	1.0366774547	1.04274414	0.7646352	1.680373	1.0580376
##	1194	1.223097000	1.3176842389	1.07733421	0.7646352	1.680373	1.0580376
##	1220	0.204878000	0.1981409482	0.96711676	0.7646352	1.680373	1.0580376
##	1221	0.282026000	0.3041491151	1.07844353	0.7646352	1.680373	1.0580376
##	1222	0.374162000	0.4079481918	1.09029830	0.7646352	1.680373	1.0580376
##	1223	0.485828000	0.4990525578	1.02722066	0.7646352	1.680373	1.0580376
##	1224	0.617110000	0.5881962733	0.95314656	0.7646352	1.680373	1.0580376
##	1225	0.770511000	0.7585913716	0.98453023	0.7646352	1.680373	1.0580376
##	1226	0.946779000	0.9786782154	1.03369236	0.7646352	1.680373	1.0580376
##	2284	0.447701000	0.4707489273	1.05148062	0.7646352	1.680373	1.0580376
##	2285	0.613481000	0.6509569316	1.06108735	0.7646352	1.680373	1.0580376
##	2286	0.817184000	0.8271304830	1.01217166	0.7646352	1.680373	1.0580376

##	2287	1.060750000	1.0126352313	0.95464080	0.7646352	1.680373	1.0580376
##	2288	1.348134000	1.2242000957	0.90807004	0.7646352	1.680373	1.0580376
##	2289	1.684256000	1.7127067002	1.01689215	0.7646352	1.680373	1.0580376
##	2290	2.072434000	1.7521514923	0.84545587	0.7646352	1.680373	1.0580376
##	2316	0.299051000	0.3832962806	1.28170874	0.7646352	1.680373	1.0580376
##	2317	0.409295000	0.5149786746	1.25820905	0.7646352	1.680373	1.0580376
##	2318	0.544857000	0.6977479388	1.28060746	0.7646352	1.680373	1.0580376
##	2319	0.707200000	0.7390089391	1.04497870	0.7646352	1.680373	1.0580376
##	2320	0.899153000	1.0409407429	1.15769034	0.7646352	1.680373	1.0580376
##	2321	1.123033000	1.2693292434	1.13026887	0.7646352	1.680373	1.0580376
##	2322	1.381198000	1.4946798863	1.08216192	0.7646352	1.680373	1.0580376
##	2348	0.250853000	0.2760499886	1.10044524	0.7646352	1.680373	1.0580376
##	2349	0.344337000	0.3703521581	1.07555145	0.7646352	1.680373	1.0580376
##	2350	0.458966000	0.4368225124	0.95175353	0.7646352	1.680373	1.0580376
##	2351	0.600438000	0.6337182920	1.05542669	0.7646352	1.680373	1.0580376
##	2352	0.757738000	0.7111600815	0.93853031	0.7646352	1.680373	1.0580376
##	2353	0.943961000	0.7931658021	0.84025272	0.7646352	1.680373	1.0580376
##	2354	1.158786000	1.0941776378	0.94424479	0.7646352	1.680373	1.0580376
##	3412	0.309233000	0.2743121882	0.88707282	0.7646352	1.680373	1.0580376
##	3413	0.404018000	0.4177669003	1.03403042	0.7646352	1.680373	1.0580376
##	3414	0.547552000	0.5705108246	1.04192994	0.7646352	1.680373	1.0580376
##	3415	0.682431000	0.7720451504	1.13131606	0.7646352	1.680373	1.0580376
##	3416	0.847605000	0.9326193647	1.10029951	0.7646352	1.680373	1.0580376
##	3417	1.037548000	1.1632051754	1.12110975	0.7646352	1.680373	1.0580376
##	3418	1.297046000	1.4885971077	1.14768259	0.7646352	1.680373	1.0580376
##	3444	0.224132000	0.1921278572	0.85720851	0.7646352	1.680373	1.0580376
##	3445	0.296869000	0.2809814086	0.94648282	0.7646352	1.680373	1.0580376
##	3446	0.381658000	0.3224331301	0.84482214	0.7646352	1.680373	1.0580376
##	3447	0.503568000	0.4160935810	0.82629075	0.7646352	1.680373	1.0580376
##	3448	0.621133000	0.5910612621	0.95158567	0.7646352	1.680373	1.0580376
##	3449	0.760187000	0.7736517702	1.01771244	0.7646352	1.680373	1.0580376
##	3450	0.945768000	0.8827948558	0.93341586	0.7646352	1.680373	1.0580376
##	3476	0.169750000	0.1409836221	0.83053680	0.7646352	1.680373	1.0580376
##	3477	0.238454000	0.2186182492	0.91681519	0.7646352	1.680373	1.0580376
##	3478	0.308117000	0.2783889930	0.90351715	0.7646352	1.680373	1.0580376
##	3479	0.386477000	0.3589390398	0.92874619	0.7646352	1.680373	1.0580376
##	3480	0.470345000	0.4331648931	0.92095141	0.7646352	1.680373	1.0580376
##	3481	0.601742000	0.6039663780	1.00369656	0.7646352	1.680373	1.0580376
##	3482	0.720865000	0.7403292002	1.02700117	0.7646352	1.680373	1.0580376
##	4540	0.349092000	0.3929066054	1.12551020	0.7646352	1.680373	1.0580376
##	4541	0.478806000	0.5347230544	1.11678436	0.7646352	1.680373	1.0580376
##	4542	0.637216000	0.7180684512	1.12688390	0.7646352	1.680373	1.0580376
##	4543	0.826958000	0.9372704979	1.13339553	0.7646352	1.680373	1.0580376
##	4544	1.052076000	1.1657851224	1.10808071	0.7646352	1.680373	1.0580376
##	4545	1.313824000	1.3662722187	1.03992028	0.7646352	1.680373	1.0580376
##	4546	1.615244000	1.6850762546	1.04323325	0.7646352	1.680373	1.0580376
##	4572	0.227150000	0.2612710637	1.15021380	0.7646352	1.680373	1.0580376
##	4573	0.311409000	0.3424462094	1.09966703	0.7646352	1.680373	1.0580376
##	4574	0.414482000	0.4527694037	1.09237410	0.7646352	1.680373	1.0580376
##	4575	0.538143000	0.5867687537	1.09035842	0.7646352	1.680373	1.0580376
##	4576	0.684050000	0.7111464799	1.03961184	0.7646352	1.680373	1.0580376
##	4577	0.854398000	0.9117687141	1.06714753	0.7646352	1.680373	1.0580376
##	4578	1.050754000	1.0651928056	1.01374138	0.7646352	1.680373	1.0580376
##	4604	0.203146000	0.2369706922	1.16650435	0.7646352	1.680373	1.0580376

## 4605	0.278914000	0.2992408924	1.07287871	0.7646352	1.680373	1.0580376
## 4606	0.370227000	0.4204923568	1.13576902	0.7646352	1.680373	1.0580376
## 4607	0.481103000	0.5181496238	1.07700352	0.7646352	1.680373	1.0580376
## 4608	0.611331000	0.6675532683	1.09196698	0.7646352	1.680373	1.0580376
## 4609	0.762212000	0.8211939976	1.07738267	0.7646352	1.680373	1.0580376
## 4610	0.937979000	0.8973494925	0.95668399	0.7646352	1.680373	1.0580376
## 5652	0.399085000	0.4771716751	1.19566427	0.7646352	1.680373	1.0580376
## 5653	0.547022000	0.5441297498	0.99471274	0.7646352	1.680373	1.0580376
## 5654	0.728159000	0.7104969407	0.97574423	0.7646352	1.680373	1.0580376
## 5655	0.946579000	0.7530460622	0.79554486	0.7646352	1.680373	1.0580376
## 5656	1.201664000	1.0837848301	0.90190339	0.7646352	1.680373	1.0580376
## 5657	1.501131000	1.3520590025	0.90069355	0.7646352	1.680373	1.0580376
## 5658	1.846806000	1.8652383288	1.00998065	0.7646352	1.680373	1.0580376
## 5684	0.340836000	0.3087939614	0.90598986	0.7646352	1.680373	1.0580376
## 5685	0.434285000	0.3683444192	0.84816289	0.7646352	1.680373	1.0580376
## 5686	0.555492000	0.4932321868	0.88791951	0.7646352	1.680373	1.0580376
## 5687	0.741559000	0.6376578956	0.85988828	0.7646352	1.680373	1.0580376
## 5688	0.913348000	0.7790360386	0.85294547	0.7646352	1.680373	1.0580376
## 5689	1.120093000	0.9456376890	0.84424926	0.7646352	1.680373	1.0580376
## 5690	1.365809000	1.2139253726	0.88879585	0.7646352	1.680373	1.0580376
## 5700	0.213234000	0.2534299127	1.18850611	0.7646352	1.680373	1.0580376
## 5701	0.293526000	0.2312256160	0.78775174	0.7646352	1.680373	1.0580376
## 5702	0.388518000	0.4062091875	1.04553505	0.7646352	1.680373	1.0580376
## 5703	0.518218000	0.8023588076	1.54830362	0.7646352	1.680373	1.0580376
## 5704	0.640947000	0.6088524358	0.94992634	0.7646352	1.680373	1.0580376
## 5705	0.801018000	0.7791303805	0.97267525	0.7646352	1.680373	1.0580376
## 5706	0.990497000	1.0159672072	1.02571457	0.7646352	1.680373	1.0580376
## 201	0.322012000	0.3752606406	1.16536229	0.5168459	1.417256	1.0643697
## 202	0.573802000	0.6679794098	1.16412876	0.5168459	1.417256	1.0643697
## 203	0.568931000	0.5723052307	1.00593083	0.5168459	1.417256	1.0643697
## 204	1.333223000	1.3689104222	1.02676778	0.5168459	1.417256	1.0643697
## 205	0.953451000	0.7337775072	0.76960170	0.5168459	1.417256	1.0643697
## 206	1.442060000	0.7453228275	0.51684592	0.5168459	1.417256	1.0643697
## 207	1.571952000	1.2135586009	0.77200742	0.5168459	1.417256	1.0643697
## 233	0.380128000	0.4493668019	1.18214602	0.5168459	1.417256	1.0643697
## 234	0.524882000	0.6735992462	1.28333463	0.5168459	1.417256	1.0643697
## 235	0.694673000	0.6777565109	0.97564827	0.5168459	1.417256	1.0643697
## 236	0.913443000	1.0405557516	1.13915784	0.5168459	1.417256	1.0643697
## 237	1.148747000	1.2106704283	1.05390519	0.5168459	1.417256	1.0643697
## 238	1.442796000	1.5606926240	1.08171399	0.5168459	1.417256	1.0643697
## 239	1.765668000	1.9218279753	1.08844243	0.5168459	1.417256	1.0643697
## 265	0.485456000	0.5210569329	1.07333504	0.5168459	1.417256	1.0643697
## 266	0.665118000	0.7652320959	1.15052080	0.5168459	1.417256	1.0643697
## 267	0.884310000	0.8858929560	1.00179005	0.5168459	1.417256	1.0643697
## 268	1.149752000	0.9451424252	0.82204025	0.5168459	1.417256	1.0643697
## 269	1.459609000	0.8775091683	0.60119468	0.5168459	1.417256	1.0643697
## 270	1.823104000	1.0681894477	0.58591800	0.5168459	1.417256	1.0643697
## 271	2.241829000	1.2798442883	0.57089291	0.5168459	1.417256	1.0643697
## 1252	0.222712000	0.2149740255	0.96525569	0.5168459	1.417256	1.0643697
## 1253	0.305098000	0.3026110044	0.99184854	0.5168459	1.417256	1.0643697
## 1254	0.405724000	0.4132330620	1.01850781	0.5168459	1.417256	1.0643697
## 1255	0.529211000	0.5844742090	1.10442566	0.5168459	1.417256	1.0643697
## 1256	0.669452000	0.7190787229	1.07413037	0.5168459	1.417256	1.0643697
## 1257	0.836552000	0.8993161276	1.07502717	0.5168459	1.417256	1.0643697

## 1258	1.036092000	1.2027140384	1.16081780	0.5168459	1.417256	1.0643697
## 1284	0.288179000	0.3247643142	1.12695344	0.5168459	1.417256	1.0643697
## 1285	0.395283000	0.4456184025	1.12734017	0.5168459	1.417256	1.0643697
## 1286	0.526109000	0.5840214477	1.11007690	0.5168459	1.417256	1.0643697
## 1287	0.683337000	0.7265339268	1.06321468	0.5168459	1.417256	1.0643697
## 1288	0.868353000	0.8903086450	1.02528424	0.5168459	1.417256	1.0643697
## 1289	1.084126000	1.0886608187	1.00418293	0.5168459	1.417256	1.0643697
## 1290	1.334499000	1.4113976646	1.05762362	0.5168459	1.417256	1.0643697
## 1316	0.362180000	0.3889312611	1.07386178	0.5168459	1.417256	1.0643697
## 1317	0.496828000	0.5342952172	1.07541285	0.5168459	1.417256	1.0643697
## 1318	0.661277000	0.7099651346	1.07362744	0.5168459	1.417256	1.0643697
## 1319	0.857904000	0.8932190551	1.04116434	0.5168459	1.417256	1.0643697
## 1320	1.090860000	1.1301165901	1.03598683	0.5168459	1.417256	1.0643697
## 1321	1.361758000	1.3974373679	1.02620096	0.5168459	1.417256	1.0643697
## 1322	1.701856000	1.7744917052	1.04268029	0.5168459	1.417256	1.0643697
## 2380	0.291945000	0.3224820105	1.10459850	0.5168459	1.417256	1.0643697
## 2381	0.400204000	0.4132319020	1.03255315	0.5168459	1.417256	1.0643697
## 2382	0.532295000	0.5286740093	0.99319740	0.5168459	1.417256	1.0643697
## 2383	0.693266000	0.6881805538	0.99266451	0.5168459	1.417256	1.0643697
## 2384	0.879847000	0.8378076720	0.95221973	0.5168459	1.417256	1.0643697
## 2385	1.098974000	1.2569584994	1.14375636	0.5168459	1.417256	1.0643697
## 2386	1.352670000	1.2222971599	0.90361815	0.5168459	1.417256	1.0643697
## 2412	0.366481000	0.5193972246	1.41725553	0.5168459	1.417256	1.0643697
## 2413	0.502725000	0.6459778078	1.28495262	0.5168459	1.417256	1.0643697
## 2414	0.669798000	0.8107109429	1.21038125	0.5168459	1.417256	1.0643697
## 2415	0.869264000	1.0461465699	1.20348544	0.5168459	1.417256	1.0643697
## 2416	1.104777000	1.2677398539	1.14750746	0.5168459	1.417256	1.0643697
## 2417	1.379485000	1.5321366176	1.11065841	0.5168459	1.417256	1.0643697
## 2418	1.696333000	1.8343531615	1.08136384	0.5168459	1.417256	1.0643697
## 2444	0.457530000	0.4905825660	1.07224131	0.5168459	1.417256	1.0643697
## 2445	0.627274000	0.7076631394	1.12815634	0.5168459	1.417256	1.0643697
## 2446	0.834452000	0.8438949441	1.01131634	0.5168459	1.417256	1.0643697
## 2447	1.082819000	1.1033699918	1.01897916	0.5168459	1.417256	1.0643697
## 2448	1.376663000	1.4935060258	1.08487409	0.5168459	1.417256	1.0643697
## 2449	1.719223000	1.6140493049	0.93882487	0.5168459	1.417256	1.0643697
## 2450	2.113950000	1.8377123628	0.86932631	0.5168459	1.417256	1.0643697
## 3508	0.185949000	0.1925881092	1.03570393	0.5168459	1.417256	1.0643697
## 3509	0.246962000	0.2910222660	1.17840909	0.5168459	1.417256	1.0643697
## 3510	0.336204000	0.3450072339	1.02618420	0.5168459	1.417256	1.0643697
## 3511	0.424387000	0.4641043311	1.09358753	0.5168459	1.417256	1.0643697
## 3512	0.521386000	0.5602581196	1.07455536	0.5168459	1.417256	1.0643697
## 3513	0.630114000	0.7060806978	1.12056024	0.5168459	1.417256	1.0643697
## 3514	0.797013000	0.8978213389	1.12648268	0.5168459	1.417256	1.0643697
## 3540	0.240605000	0.2947861694	1.22518721	0.5168459	1.417256	1.0643697
## 3541	0.318879000	0.4053007009	1.27101722	0.5168459	1.417256	1.0643697
## 3542	0.408939000	0.5559557020	1.35950766	0.5168459	1.417256	1.0643697
## 3543	0.515475000	0.6334365971	1.22884058	0.5168459	1.417256	1.0643697
## 3544	0.664641000	0.7459814527	1.12238254	0.5168459	1.417256	1.0643697
## 3545	0.810407000	0.8641824250	1.06635607	0.5168459	1.417256	1.0643697
## 3546	0.959640000	0.9621776035	1.00264433	0.5168459	1.417256	1.0643697
## 3572	0.290720000	0.2753374332	0.94708803	0.5168459	1.417256	1.0643697
## 3573	0.407821000	0.4378267220	1.07357572	0.5168459	1.417256	1.0643697
## 3574	0.520901000	0.5513538356	1.05846185	0.5168459	1.417256	1.0643697
## 3575	0.657290000	0.7280919999	1.10771805	0.5168459	1.417256	1.0643697



## 3576	0.819442000	0.8985861609	1.09658299	0.5168459	1.417256	1.0643697
## 3577	1.033346000	1.1208337097	1.08466449	0.5168459	1.417256	1.0643697
## 3578	1.252831000	1.3428321421	1.07183821	0.5168459	1.417256	1.0643697
## 4636	0.228771000	0.2898342989	1.26691888	0.5168459	1.417256	1.0643697
## 4637	0.313455000	0.3833730927	1.22305624	0.5168459	1.417256	1.0643697
## 4638	0.417231000	0.4988100081	1.19552480	0.5168459	1.417256	1.0643697
## 4639	0.542038000	0.6554012155	1.20914256	0.5168459	1.417256	1.0643697
## 4640	0.688298000	0.7850081004	1.14050615	0.5168459	1.417256	1.0643697
## 4641	0.860037000	0.9609930024	1.11738565	0.5168459	1.417256	1.0643697
## 4642	1.059135000	1.1988823410	1.13194479	0.5168459	1.417256	1.0643697
## 4668	0.291909000	0.3098002093	1.06129037	0.5168459	1.417256	1.0643697
## 4669	0.400074000	0.4240172360	1.05984702	0.5168459	1.417256	1.0643697
## 4670	0.532454000	0.5687545574	1.06817595	0.5168459	1.417256	1.0643697
## 4671	0.691490000	0.7452009730	1.07767426	0.5168459	1.417256	1.0643697
## 4672	0.879319000	0.9550595728	1.08613549	0.5168459	1.417256	1.0643697
## 4673	1.097321000	1.1526066685	1.05038240	0.5168459	1.417256	1.0643697
## 4674	1.351160000	1.4346895448	1.06182062	0.5168459	1.417256	1.0643697
## 4700	0.359261000	0.4188197356	1.16578124	0.5168459	1.417256	1.0643697
## 4701	0.492667000	0.4950717431	1.00488107	0.5168459	1.417256	1.0643697
## 4702	0.655492000	0.6454920693	0.98474439	0.5168459	1.417256	1.0643697
## 4703	0.850930000	0.8939499261	1.05055636	0.5168459	1.417256	1.0643697
## 4704	1.081744000	1.0909986352	1.00855529	0.5168459	1.417256	1.0643697
## 4705	1.350714000	1.3592126491	1.00629197	0.5168459	1.417256	1.0643697
## 4706	1.661621000	1.7423662156	1.04859424	0.5168459	1.417256	1.0643697
## 5732	0.243569000	0.2511069521	1.03094791	0.5168459	1.417256	1.0643697
## 5733	0.396245000	0.4702651719	1.18680405	0.5168459	1.417256	1.0643697
## 5734	0.439983000	0.4680424649	1.06377398	0.5168459	1.417256	1.0643697
## 5735	0.778208000	0.9108874420	1.17049355	0.5168459	1.417256	1.0643697
## 5736	0.734539000	0.7522641045	1.02413092	0.5168459	1.417256	1.0643697
## 5737	1.103908000	1.4175037206	1.28407777	0.5168459	1.417256	1.0643697
## 5738	1.265509000	1.3034828641	1.03000679	0.5168459	1.417256	1.0643697
## 5764	0.348866000	0.3957371670	1.13435292	0.5168459	1.417256	1.0643697
## 5765	0.472184000	0.5947331093	1.25953677	0.5168459	1.417256	1.0643697
## 5766	0.626404000	0.6301934721	1.00604957	0.5168459	1.417256	1.0643697
## 5767	0.764010000	0.8771652674	1.14810705	0.5168459	1.417256	1.0643697
## 5768	0.985386000	0.9691575780	0.98353090	0.5168459	1.417256	1.0643697
## 5769	1.202378000	1.2696602336	1.05595764	0.5168459	1.417256	1.0643697
## 5770	1.470693000	1.4266126470	0.97002750	0.5168459	1.417256	1.0643697
## 5780	0.386495000	0.3623063213	0.93741529	0.5168459	1.417256	1.0643697
## 5781	0.530835000	0.5675143256	1.06909741	0.5168459	1.417256	1.0643697
## 5782	0.704903000	0.6949858183	0.98593114	0.5168459	1.417256	1.0643697
## 5783	0.919832000	1.2073714013	1.31259991	0.5168459	1.417256	1.0643697
## 5784	1.163608000	1.1795563460	1.01370594	0.5168459	1.417256	1.0643697
## 5785	1.455063000	1.3802674547	0.94859635	0.5168459	1.417256	1.0643697
## 5786	1.788568000	1.9650039387	1.09864648	0.5168459	1.417256	1.0643697
## 297	0.204274000	0.1643798818	0.80470291	0.4890282	1.780230	1.0694952
## 298	0.284864000	0.2311874615	0.81157135	0.4890282	1.780230	1.0694952
## 299	0.381032000	0.3034538247	0.79639984	0.4890282	1.780230	1.0694952
## 300	0.489206000	0.3903362016	0.79789741	0.4890282	1.780230	1.0694952
## 301	0.638776000	0.5251492208	0.82211796	0.4890282	1.780230	1.0694952
## 302	0.788914000	0.6665024716	0.84483540	0.4890282	1.780230	1.0694952
## 303	0.987934000	0.8513697646	0.86176786	0.4890282	1.780230	1.0694952
## 329	0.113854000	0.0556778131	0.48902817	0.4890282	1.780230	1.0694952
## 330	0.147237000	0.0901943234	0.61257920	0.4890282	1.780230	1.0694952

## 331	0.195781000	0.1387483035	0.70869136	0.4890282	1.780230	1.0694952
## 332	0.254341000	0.1977295784	0.77741921	0.4890282	1.780230	1.0694952
## 333	0.324093000	0.2848805931	0.87900878	0.4890282	1.780230	1.0694952
## 334	0.403502000	0.3676641811	0.91118305	0.4890282	1.780230	1.0694952
## 335	0.498468000	0.4776833150	0.95830287	0.4890282	1.780230	1.0694952
## 361	0.095896000	0.1282245939	1.33712140	0.4890282	1.780230	1.0694952
## 362	0.131626000	0.1656328086	1.25835936	0.4890282	1.780230	1.0694952
## 363	0.164552000	0.2183544439	1.32696317	0.4890282	1.780230	1.0694952
## 364	0.213754000	0.2680248650	1.25389403	0.4890282	1.780230	1.0694952
## 365	0.272011000	0.3638116169	1.33748862	0.4890282	1.780230	1.0694952
## 366	0.339842000	0.3850758317	1.13310253	0.4890282	1.780230	1.0694952
## 367	0.418102000	0.4941339444	1.18185023	0.4890282	1.780230	1.0694952
## 1348	0.155620000	0.1782438893	1.14537906	0.4890282	1.780230	1.0694952
## 1349	0.213391000	0.2481972181	1.16311006	0.4890282	1.780230	1.0694952
## 1350	0.284244000	0.3466528155	1.21956071	0.4890282	1.780230	1.0694952
## 1351	0.368488000	0.4503129867	1.22205604	0.4890282	1.780230	1.0694952
## 1352	0.468640000	0.5440667141	1.16094809	0.4890282	1.780230	1.0694952
## 1353	0.585679000	0.6847089914	1.16908578	0.4890282	1.780230	1.0694952
## 1354	0.721165000	0.8021161474	1.11225052	0.4890282	1.780230	1.0694952
## 1380	0.086220000	0.1049060154	1.21672484	0.4890282	1.780230	1.0694952
## 1381	0.118292000	0.1436105364	1.21403422	0.4890282	1.780230	1.0694952
## 1382	0.157389000	0.1883610749	1.19678678	0.4890282	1.780230	1.0694952
## 1383	0.204372000	0.2377025874	1.16308784	0.4890282	1.780230	1.0694952
## 1384	0.259411000	0.2892896108	1.11517866	0.4890282	1.780230	1.0694952
## 1385	0.324119000	0.3549515796	1.09512734	0.4890282	1.780230	1.0694952
## 1386	0.398570000	0.4247687820	1.06573195	0.4890282	1.780230	1.0694952
## 1412	0.065573000	0.0406091336	0.61929656	0.4890282	1.780230	1.0694952
## 1413	0.089849000	0.0705640108	0.78536223	0.4890282	1.780230	1.0694952
## 1414	0.119513000	0.0951890566	0.79647450	0.4890282	1.780230	1.0694952
## 1415	0.155175000	0.1442863515	0.92982988	0.4890282	1.780230	1.0694952
## 1416	0.197437000	0.1763208230	0.89304853	0.4890282	1.780230	1.0694952
## 1417	0.246371000	0.2468321518	1.00187178	0.4890282	1.780230	1.0694952
## 1418	0.303005000	0.2736247033	0.90303692	0.4890282	1.780230	1.0694952
## 2476	0.210685000	0.2686970637	1.27534976	0.4890282	1.780230	1.0694952
## 2477	0.288843000	0.3463304136	1.19902651	0.4890282	1.780230	1.0694952
## 2478	0.384299000	0.4386108205	1.14132699	0.4890282	1.780230	1.0694952
## 2479	0.499066000	0.5460165391	1.09407681	0.4890282	1.780230	1.0694952
## 2480	0.634361000	0.6685689773	1.05392510	0.4890282	1.780230	1.0694952
## 2481	0.792443000	0.7799852173	0.98427927	0.4890282	1.780230	1.0694952
## 2482	0.974432000	0.9420943605	0.96681386	0.4890282	1.780230	1.0694952
## 2508	0.121582000	0.1846526209	1.51874966	0.4890282	1.780230	1.0694952
## 2509	0.166761000	0.2379238958	1.42673584	0.4890282	1.780230	1.0694952
## 2510	0.221944000	0.2631798469	1.18579393	0.4890282	1.780230	1.0694952
## 2511	0.288065000	0.3273292163	1.13630332	0.4890282	1.780230	1.0694952
## 2512	0.366095000	0.3973483183	1.08536942	0.4890282	1.780230	1.0694952
## 2513	0.457084000	0.4743070325	1.03768023	0.4890282	1.780230	1.0694952
## 2514	0.561818000	0.5650081318	1.00567823	0.4890282	1.780230	1.0694952
## 2540	0.092352000	0.1644077632	1.78022959	0.4890282	1.780230	1.0694952
## 2541	0.126687000	0.1894588949	1.49548805	0.4890282	1.780230	1.0694952
## 2542	0.168493000	0.2327995095	1.38165686	0.4890282	1.780230	1.0694952
## 2543	0.218911000	0.2806131234	1.28185940	0.4890282	1.780230	1.0694952
## 2544	0.278298000	0.3306660910	1.18817272	0.4890282	1.780230	1.0694952
## 2545	0.347630000	0.4167364413	1.19879309	0.4890282	1.780230	1.0694952
## 2546	0.427309000	0.4763524100	1.11477271	0.4890282	1.780230	1.0694952

## 3604	0.131957000	0.1340885780	1.01615358	0.4890282	1.780230	1.0694952
## 3605	0.175249000	0.2037331850	1.16253551	0.4890282	1.780230	1.0694952
## 3606	0.241381000	0.3152927299	1.30620359	0.4890282	1.780230	1.0694952
## 3607	0.302663000	0.3836239098	1.26749523	0.4890282	1.780230	1.0694952
## 3608	0.373042000	0.4461770749	1.19605051	0.4890282	1.780230	1.0694952
## 3609	0.454604000	0.5143303161	1.13138097	0.4890282	1.780230	1.0694952
## 3610	0.566303000	0.5708266917	1.00798811	0.4890282	1.780230	1.0694952
## 3636	0.073970000	0.0798096230	1.07894583	0.4890282	1.780230	1.0694952
## 3637	0.101282000	0.1020359381	1.00744395	0.4890282	1.780230	1.0694952
## 3638	0.133007000	0.1289922954	0.96981584	0.4890282	1.780230	1.0694952
## 3639	0.174948000	0.1617125967	0.92434664	0.4890282	1.780230	1.0694952
## 3640	0.217713000	0.1962432324	0.90138500	0.4890282	1.780230	1.0694952
## 3641	0.263154000	0.2296009797	0.87249664	0.4890282	1.780230	1.0694952
## 3642	0.332205000	0.2758102917	0.83024124	0.4890282	1.780230	1.0694952
## 3668	0.056103000	0.0581603230	1.03667046	0.4890282	1.780230	1.0694952
## 3669	0.076876000	0.0840163520	1.09288142	0.4890282	1.780230	1.0694952
## 3670	0.102315000	0.0868728948	0.84907291	0.4890282	1.780230	1.0694952
## 3671	0.132917000	0.1502903048	1.13070792	0.4890282	1.780230	1.0694952
## 3672	0.163786000	0.1455520972	0.88867240	0.4890282	1.780230	1.0694952
## 3673	0.210959000	0.1888003944	0.89496250	0.4890282	1.780230	1.0694952
## 3674	0.251496000	0.2171958760	0.86361563	0.4890282	1.780230	1.0694952
## 4732	0.165801000	0.2216842556	1.33705017	0.4890282	1.780230	1.0694952
## 4733	0.227359000	0.3013568284	1.32546690	0.4890282	1.780230	1.0694952
## 4734	0.302570000	0.3933419585	1.30000317	0.4890282	1.780230	1.0694952
## 4735	0.392722000	0.4993727930	1.27156817	0.4890282	1.780230	1.0694952
## 4736	0.498739000	0.6119937973	1.22708230	0.4890282	1.780230	1.0694952
## 4737	0.623179000	0.7185129671	1.15298007	0.4890282	1.780230	1.0694952
## 4738	0.766204000	0.8546737073	1.11546495	0.4890282	1.780230	1.0694952
## 4764	0.095402000	0.1180051506	1.23692533	0.4890282	1.780230	1.0694952
## 4765	0.130779000	0.1628558259	1.24527505	0.4890282	1.780230	1.0694952
## 4766	0.174075000	0.2168196258	1.24555293	0.4890282	1.780230	1.0694952
## 4767	0.225923000	0.2669785866	1.18172380	0.4890282	1.780230	1.0694952
## 4768	0.286943000	0.3253175534	1.13373581	0.4890282	1.780230	1.0694952
## 4769	0.358344000	0.3933483808	1.09768374	0.4890282	1.780230	1.0694952
## 4770	0.440480000	0.4707127802	1.06863599	0.4890282	1.780230	1.0694952
## 4796	0.072512000	0.0962892680	1.32790804	0.4890282	1.780230	1.0694952
## 4797	0.099274000	0.1461544023	1.47223243	0.4890282	1.780230	1.0694952
## 4798	0.132062000	0.1767440347	1.33834134	0.4890282	1.780230	1.0694952
## 4799	0.171463000	0.2329950082	1.35886464	0.4890282	1.780230	1.0694952
## 4800	0.217910000	0.2734580883	1.25491298	0.4890282	1.780230	1.0694952
## 4801	0.272091000	0.3306395288	1.21517995	0.4890282	1.780230	1.0694952
## 4802	0.334624000	0.3896070046	1.16431279	0.4890282	1.780230	1.0694952
## 5812	0.191974000	0.1656862768	0.86306623	0.4890282	1.780230	1.0694952
## 5813	0.233728000	0.2281392493	0.97608866	0.4890282	1.780230	1.0694952
## 5814	0.311830000	0.2782496774	0.89231208	0.4890282	1.780230	1.0694952
## 5815	0.410016000	0.4032893983	0.98359429	0.4890282	1.780230	1.0694952
## 5816	0.515169000	0.5143952966	0.99849816	0.4890282	1.780230	1.0694952
## 5817	0.644837000	0.6463033552	1.00227399	0.4890282	1.780230	1.0694952
## 5818	0.816653000	0.7930196309	0.97106070	0.4890282	1.780230	1.0694952
## 5844	0.120361000	0.1033210870	0.85842662	0.4890282	1.780230	1.0694952
## 5845	0.164099000	0.1391216323	0.84779086	0.4890282	1.780230	1.0694952
## 5846	0.202779000	0.1741974502	0.85905074	0.4890282	1.780230	1.0694952
## 5847	0.258832000	0.2261962635	0.87391151	0.4890282	1.780230	1.0694952
## 5848	0.344553000	0.2965480279	0.86067464	0.4890282	1.780230	1.0694952

##	5849	0.406234000	0.3451001595	0.84951077	0.4890282	1.780230	1.0694952
##	5850	0.486006000	0.3960435300	0.81489432	0.4890282	1.780230	1.0694952
##	5860	0.088753000	0.0744939361	0.83933992	0.4890282	1.780230	1.0694952
##	5861	0.125573000	0.1098442553	0.87474421	0.4890282	1.780230	1.0694952
##	5862	0.144717000	0.1320347718	0.91236532	0.4890282	1.780230	1.0694952
##	5863	0.187936000	0.2007487104	1.06817592	0.4890282	1.780230	1.0694952
##	5864	0.209410000	0.2262817342	1.08056795	0.4890282	1.780230	1.0694952
##	5865	0.261702000	0.3024805248	1.15582046	0.4890282	1.780230	1.0694952
##	5866	0.321623000	0.3312442874	1.02991480	0.4890282	1.780230	1.0694952
##	401	0.010370000	0.0133355968	1.28597848	0.6461388	1.756101	1.0593227
##	402	0.034257000	0.0339248957	0.99030551	0.6461388	1.756101	1.0593227
##	403	0.009664628	0.0124865270	1.29198217	0.6461388	1.756101	1.0593227
##	404	0.027417000	0.0274967163	1.00290755	0.6461388	1.756101	1.0593227
##	433	0.015133000	0.0172945550	1.14283718	0.6461388	1.756101	1.0593227
##	434	0.054909000	0.0584990786	1.06538234	0.6461388	1.756101	1.0593227
##	435	0.009642160	0.0074135496	0.76886814	0.6461388	1.756101	1.0593227
##	436	0.040864000	0.0435093896	1.06473643	0.6461388	1.756101	1.0593227
##	465	0.021504000	0.0262289005	1.21972193	0.6461388	1.756101	1.0593227
##	466	0.074782000	0.0619162326	0.82795636	0.6461388	1.756101	1.0593227
##	467	0.016817000	0.0186361836	1.10817527	0.6461388	1.756101	1.0593227
##	468	0.051608000	0.0485476370	0.94069983	0.6461388	1.756101	1.0593227
##	1452	0.004931022	0.0072838514	1.47714842	0.6461388	1.756101	1.0593227
##	1453	0.008527262	0.0111191752	1.30395609	0.6461388	1.756101	1.0593227
##	1454	0.006026471	0.0078241265	1.29829323	0.6461388	1.756101	1.0593227
##	1455	0.007964733	0.0106490487	1.33702519	0.6461388	1.756101	1.0593227
##	1484	0.004974217	0.0037693679	0.75778115	0.6461388	1.756101	1.0593227
##	1485	0.008113689	0.0076869071	0.94739977	0.6461388	1.756101	1.0593227
##	1486	0.006205538	0.0052077015	0.83920226	0.6461388	1.756101	1.0593227
##	1487	0.007296475	0.0066185377	0.90708702	0.6461388	1.756101	1.0593227
##	1516	0.009508342	0.0086443434	0.90913257	0.6461388	1.756101	1.0593227
##	1517	0.010689000	0.0106253794	0.99404803	0.6461388	1.756101	1.0593227
##	1518	0.011847000	0.0109519979	0.92445327	0.6461388	1.756101	1.0593227
##	1519	0.013193000	0.0124207147	0.94146250	0.6461388	1.756101	1.0593227
##	2580	0.005077011	0.0081303771	1.60141018	0.6461388	1.756101	1.0593227
##	2581	0.006478898	0.0099742197	1.53949324	0.6461388	1.756101	1.0593227
##	2582	0.006486611	0.0089063061	1.37302916	0.6461388	1.756101	1.0593227
##	2583	0.008861321	0.0132305096	1.49306290	0.6461388	1.756101	1.0593227
##	2612	0.005843750	0.0058799130	1.00618832	0.6461388	1.756101	1.0593227
##	2613	0.006676408	0.0075750887	1.13460542	0.6461388	1.756101	1.0593227
##	2614	0.007321895	0.0062129523	0.84854430	0.6461388	1.756101	1.0593227
##	2615	0.008550664	0.0080913652	0.94628501	0.6461388	1.756101	1.0593227
##	2644	0.011424000	0.0095012600	0.83169292	0.6461388	1.756101	1.0593227
##	2645	0.012839000	0.0115745866	0.90151776	0.6461388	1.756101	1.0593227
##	2646	0.014287000	0.0106122768	0.74279252	0.6461388	1.756101	1.0593227
##	2647	0.015847000	0.0138695470	0.87521594	0.6461388	1.756101	1.0593227
##	3708	0.004005937	0.0070348307	1.75610117	0.6461388	1.756101	1.0593227
##	3709	0.006649565	0.0102192383	1.53682809	0.6461388	1.756101	1.0593227
##	3710	0.004744725	0.0064384109	1.35696188	0.6461388	1.756101	1.0593227
##	3711	0.006102170	0.0095052228	1.55767912	0.6461388	1.756101	1.0593227
##	3740	0.004307728	0.0036849296	0.85542299	0.6461388	1.756101	1.0593227
##	3741	0.006224535	0.0046961220	0.75445346	0.6461388	1.756101	1.0593227
##	3742	0.005384564	0.0060227119	1.11851432	0.6461388	1.756101	1.0593227
##	3743	0.006138967	0.0045166898	0.73574101	0.6461388	1.756101	1.0593227
##	3772	0.008035763	0.0072600142	0.90346296	0.6461388	1.756101	1.0593227

## 3773	0.009039354	0.0086272723	0.95441248	0.6461388	1.756101	1.0593227
## 3774	0.010015000	0.0100225126	1.00075014	0.6461388	1.756101	1.0593227
## 3775	0.011117000	0.0106376920	0.95688513	0.6461388	1.756101	1.0593227
## 4836	0.003950108	0.0062875579	1.59174330	0.6461388	1.756101	1.0593227
## 4837	0.006564441	0.0099113063	1.50984773	0.6461388	1.756101	1.0593227
## 4838	0.004699071	0.0059434152	1.26480643	0.6461388	1.756101	1.0593227
## 4839	0.005999604	0.0087722546	1.46213893	0.6461388	1.756101	1.0593227
## 4868	0.004633854	0.0048062531	1.03720426	0.6461388	1.756101	1.0593227
## 4869	0.006173907	0.0039892008	0.64613879	0.6461388	1.756101	1.0593227
## 4870	0.005785644	0.0067684273	1.16986585	0.6461388	1.756101	1.0593227
## 4871	0.006522581	0.0067278595	1.03147197	0.6461388	1.756101	1.0593227
## 4900	0.008933166	0.0081376446	0.91094743	0.6461388	1.756101	1.0593227
## 4901	0.010096000	0.0094389750	0.93492225	0.6461388	1.756101	1.0593227
## 4902	0.011157000	0.0103453114	0.92724849	0.6461388	1.756101	1.0593227
## 4903	0.012389000	0.0114795443	0.92659168	0.6461388	1.756101	1.0593227
## 5900	0.009192162	0.0112382482	1.22259031	0.6461388	1.756101	1.0593227
## 5901	0.033109000	0.0276887675	0.83629126	0.6461388	1.756101	1.0593227
## 5902	0.009823013	0.0119147119	1.21293862	0.6461388	1.756101	1.0593227
## 5903	0.026617000	0.0233038761	0.87552602	0.6461388	1.756101	1.0593227
## 5932	0.009208923	0.0113083464	1.22797708	0.6461388	1.756101	1.0593227
## 5933	0.033127000	0.0281188783	0.84882055	0.6461388	1.756101	1.0593227
## 5934	0.009805374	0.0114771642	1.17049735	0.6461388	1.756101	1.0593227
## 5935	0.026569000	0.0247952700	0.93324062	0.6461388	1.756101	1.0593227
## 5979	0.006783762	0.0069855965	1.02975259	0.6461388	1.756101	1.0593227
## 5980	0.011102000	0.0124983549	1.12577507	0.6461388	1.756101	1.0593227
## 5981	0.007678936	0.0072446341	0.94344244	0.6461388	1.756101	1.0593227
## 5982	0.050581000	0.0476864614	0.94277419	0.6461388	1.756101	1.0593227
## 5983	0.009152354	0.0077685294	0.84880123	0.6461388	1.756101	1.0593227
## 5984	0.010798000	0.0111169351	1.02953649	0.6461388	1.756101	1.0593227
## 5985	0.009831627	0.0080822167	0.82206299	0.6461388	1.756101	1.0593227
## 5986	0.038665000	0.0327548270	0.84714411	0.6461388	1.756101	1.0593227
## 5987	0.011055000	0.0098922372	0.89482019	0.6461388	1.756101	1.0593227
## 6027	0.014184000	0.0123253779	0.86896347	0.6461388	1.756101	1.0593227
## 6028	0.060974000	0.0498658045	0.81782078	0.6461388	1.756101	1.0593227
## 6029	0.016901000	0.0144875933	0.85720332	0.6461388	1.756101	1.0593227
## 6030	0.040606000	0.0368964310	0.90864481	0.6461388	1.756101	1.0593227
## 497	0.002421976	0.0024537727	1.01312842	0.8297919	1.216429	1.0179799
## 498	0.002749495	0.0027652076	1.00571474	0.8297919	1.216429	1.0179799
## 499	0.003082453	0.0030931074	1.00345648	0.8297919	1.216429	1.0179799
## 500	0.003373298	0.0033842598	1.00324958	0.8297919	1.216429	1.0179799
## 529	0.001542298	0.0017375506	1.12659848	0.8297919	1.216429	1.0179799
## 530	0.001735640	0.0019450523	1.12065422	0.8297919	1.216429	1.0179799
## 531	0.002015126	0.0022709040	1.12692904	0.8297919	1.216429	1.0179799
## 532	0.002164981	0.0025828826	1.19302785	0.8297919	1.216429	1.0179799
## 561	0.001610490	0.0015451672	0.95943920	0.8297919	1.216429	1.0179799
## 562	0.001879225	0.0018365051	0.97726725	0.8297919	1.216429	1.0179799
## 563	0.001978104	0.0019568195	0.98923996	0.8297919	1.216429	1.0179799
## 564	0.002208311	0.0021968565	0.99481302	0.8297919	1.216429	1.0179799
## 1548	0.001854010	0.0018125953	0.97766207	0.8297919	1.216429	1.0179799
## 1549	0.002130264	0.0020443932	0.95969005	0.8297919	1.216429	1.0179799
## 1550	0.002392280	0.0023808282	0.99521302	0.8297919	1.216429	1.0179799
## 1551	0.002664662	0.0027304152	1.02467601	0.8297919	1.216429	1.0179799
## 1580	0.001350651	0.0012471439	0.92336506	0.8297919	1.216429	1.0179799
## 1581	0.001542202	0.0015526110	1.00674946	0.8297919	1.216429	1.0179799

##	1582	0.001736249	0.0018334517	1.05598431	0.8297919	1.216429	1.0179799
##	1583	0.001929304	0.0020325216	1.05349994	0.8297919	1.216429	1.0179799
##	1612	0.001454523	0.0013119447	0.90197591	0.8297919	1.216429	1.0179799
##	1613	0.001587642	0.0015786164	0.99431509	0.8297919	1.216429	1.0179799
##	1614	0.001775420	0.0017575941	0.98995961	0.8297919	1.216429	1.0179799
##	1615	0.001964568	0.0019806682	1.00819527	0.8297919	1.216429	1.0179799
##	2676	0.002190356	0.0022411755	1.02320146	0.8297919	1.216429	1.0179799
##	2677	0.002508474	0.0025268792	1.00733719	0.8297919	1.216429	1.0179799
##	2678	0.002839330	0.0033210034	1.16964331	0.8297919	1.216429	1.0179799
##	2679	0.003218411	0.0033582766	1.04345798	0.8297919	1.216429	1.0179799
##	2708	0.001669031	0.0017429481	1.04428742	0.8297919	1.216429	1.0179799
##	2709	0.001935789	0.0019946050	1.03038346	0.8297919	1.216429	1.0179799
##	2710	0.002176882	0.0024080783	1.10620523	0.8297919	1.216429	1.0179799
##	2711	0.002421368	0.0024701415	1.02014296	0.8297919	1.216429	1.0179799
##	2740	0.001787242	0.0018317803	1.02492015	0.8297919	1.216429	1.0179799
##	2741	0.002044943	0.0020582706	1.00651734	0.8297919	1.216429	1.0179799
##	2742	0.002291893	0.0022649781	0.98825648	0.8297919	1.216429	1.0179799
##	2743	0.002524986	0.0024887661	0.98565542	0.8297919	1.216429	1.0179799
##	3804	0.001463400	0.0015215172	1.03971382	0.8297919	1.216429	1.0179799
##	3805	0.001606473	0.0017025453	1.05980324	0.8297919	1.216429	1.0179799
##	3806	0.001791947	0.0017733989	0.98964918	0.8297919	1.216429	1.0179799
##	3807	0.001989291	0.0020868429	1.04903850	0.8297919	1.216429	1.0179799
##	3836	0.001066693	0.0010531902	0.98734144	0.8297919	1.216429	1.0179799
##	3837	0.001167526	0.0011426733	0.97871337	0.8297919	1.216429	1.0179799
##	3838	0.001301318	0.0013751107	1.05670609	0.8297919	1.216429	1.0179799
##	3839	0.001438951	0.0014949062	1.03888614	0.8297919	1.216429	1.0179799
##	3868	0.001132137	0.0011416324	1.00838715	0.8297919	1.216429	1.0179799
##	3869	0.001228201	0.0012798444	1.04204800	0.8297919	1.216429	1.0179799
##	3870	0.001370410	0.0014313303	1.04445408	0.8297919	1.216429	1.0179799
##	3871	0.001502379	0.0016053205	1.06851899	0.8297919	1.216429	1.0179799
##	4932	0.001615895	0.0015559345	0.96289332	0.8297919	1.216429	1.0179799
##	4933	0.001777498	0.0017921019	1.00821599	0.8297919	1.216429	1.0179799
##	4934	0.001999708	0.0019503344	0.97530960	0.8297919	1.216429	1.0179799
##	4935	0.002198271	0.0021628209	0.98387362	0.8297919	1.216429	1.0179799
##	4964	0.001102416	0.0010056987	0.91226789	0.8297919	1.216429	1.0179799
##	4965	0.001218066	0.0012280416	1.00818973	0.8297919	1.216429	1.0179799
##	4966	0.001353043	0.0013545053	1.00108073	0.8297919	1.216429	1.0179799
##	4967	0.001489173	0.0015922657	1.06922816	0.8297919	1.216429	1.0179799
##	4996	0.001239988	0.0011881873	0.95822487	0.8297919	1.216429	1.0179799
##	4997	0.001359510	0.0013259235	0.97529513	0.8297919	1.216429	1.0179799
##	4998	0.001522808	0.0014988506	0.98426760	0.8297919	1.216429	1.0179799
##	4999	0.001684123	0.0016692667	0.99117859	0.8297919	1.216429	1.0179799
##	6059	0.001885264	0.0020482380	1.08644626	0.8297919	1.216429	1.0179799
##	6060	0.002200528	0.0021554090	0.97949629	0.8297919	1.216429	1.0179799
##	6061	0.002399666	0.0024357481	1.01503632	0.8297919	1.216429	1.0179799
##	6062	0.002665140	0.0027488881	1.03142354	0.8297919	1.216429	1.0179799
##	6091	0.001876370	0.0020482380	1.09159602	0.8297919	1.216429	1.0179799
##	6092	0.002199093	0.0021554090	0.98013545	0.8297919	1.216429	1.0179799
##	6093	0.002408664	0.0024357481	1.01124447	0.8297919	1.216429	1.0179799
##	6094	0.002659162	0.0027488881	1.03374226	0.8297919	1.216429	1.0179799
##	6138	0.001724688	0.0019993079	1.15922874	0.8297919	1.216429	1.0179799
##	6139	0.001832944	0.0017053321	0.93037875	0.8297919	1.216429	1.0179799
##	6140	0.001989393	0.0017765619	0.89301704	0.8297919	1.216429	1.0179799
##	6141	0.002110578	0.0018635230	0.88294437	0.8297919	1.216429	1.0179799

## 6142	0.002199315	0.0021901469	0.99583140	0.8297919	1.216429	1.0179799
## 6143	0.002327219	0.0020001924	0.85947753	0.8297919	1.216429	1.0179799
## 6144	0.002450580	0.0025441883	1.03819842	0.8297919	1.216429	1.0179799
## 6145	0.002575862	0.0021374293	0.82979186	0.8297919	1.216429	1.0179799
## 6146	0.002711319	0.0026041194	0.96046220	0.8297919	1.216429	1.0179799
## 6186	0.001508939	0.0017004118	1.12689236	0.8297919	1.216429	1.0179799
## 6187	0.001783660	0.0021683290	1.21566273	0.8297919	1.216429	1.0179799
## 6188	0.001907405	0.0023202225	1.21642887	0.8297919	1.216429	1.0179799
## 6189	0.002111823	0.0022614149	1.07083541	0.8297919	1.216429	1.0179799
## 594	0.012909000	0.0138185576	1.07045918	0.7508605	1.112799	0.9431038
## 595	0.013980000	0.0146745975	1.04968509	0.7508605	1.112799	0.9431038
## 596	0.014892000	0.0154497106	1.03745035	0.7508605	1.112799	0.9431038
## 597	0.015893000	0.0167942231	1.05670566	0.7508605	1.112799	0.9431038
## 660	0.009615224	0.0089225604	0.92796178	0.7508605	1.112799	0.9431038
## 661	0.010373000	0.0095233807	0.91809319	0.7508605	1.112799	0.9431038
## 662	0.011091000	0.0101592580	0.91599116	0.7508605	1.112799	0.9431038
## 663	0.011854000	0.0110631529	0.93328436	0.7508605	1.112799	0.9431038
## 727	0.014924000	0.0144746672	0.96989193	0.7508605	1.112799	0.9431038
## 728	0.016040000	0.0151566422	0.94492782	0.7508605	1.112799	0.9431038
## 729	0.017174000	0.0164485256	0.95775740	0.7508605	1.112799	0.9431038
## 730	0.018268000	0.0170142229	0.93136758	0.7508605	1.112799	0.9431038
## 1645	0.009446683	0.0083151242	0.88021628	0.7508605	1.112799	0.9431038
## 1646	0.010185000	0.0090326989	0.88686292	0.7508605	1.112799	0.9431038
## 1647	0.010923000	0.0097974532	0.89695626	0.7508605	1.112799	0.9431038
## 1648	0.011629000	0.0107258464	0.92233609	0.7508605	1.112799	0.9431038
## 1714	0.006982406	0.0065745318	0.94158543	0.7508605	1.112799	0.9431038
## 1715	0.007504611	0.0071393297	0.95132575	0.7508605	1.112799	0.9431038
## 1716	0.008063489	0.0077083039	0.95595144	0.7508605	1.112799	0.9431038
## 1717	0.008594749	0.0083031709	0.96607485	0.7508605	1.112799	0.9431038
## 1783	0.010502000	0.0097403715	0.92747777	0.7508605	1.112799	0.9431038
## 1784	0.011304000	0.0105641913	0.93455337	0.7508605	1.112799	0.9431038
## 1785	0.012116000	0.0113914593	0.94019967	0.7508605	1.112799	0.9431038
## 1786	0.012921000	0.0123944639	0.95924958	0.7508605	1.112799	0.9431038
## 2773	0.011449000	0.0123271923	1.07670471	0.7508605	1.112799	0.9431038
## 2774	0.012338000	0.0127428696	1.03281485	0.7508605	1.112799	0.9431038
## 2775	0.013226000	0.0136036000	1.02854983	0.7508605	1.112799	0.9431038
## 2776	0.014092000	0.0143904168	1.02117633	0.7508605	1.112799	0.9431038
## 2842	0.008067644	0.0086853430	1.07656498	0.7508605	1.112799	0.9431038
## 2843	0.008695369	0.0093161088	1.07138741	0.7508605	1.112799	0.9431038
## 2844	0.009326425	0.0097817924	1.04882550	0.7508605	1.112799	0.9431038
## 2845	0.009938023	0.0105019853	1.05674794	0.7508605	1.112799	0.9431038
## 2911	0.012960000	0.0144218766	1.11279912	0.7508605	1.112799	0.9431038
## 2912	0.013956000	0.0151770366	1.08749187	0.7508605	1.112799	0.9431038
## 2913	0.014954000	0.0159507835	1.06665665	0.7508605	1.112799	0.9431038
## 2914	0.015955000	0.0168877415	1.05846077	0.7508605	1.112799	0.9431038
## 3901	0.007958251	0.0059826363	0.75175266	0.7508605	1.112799	0.9431038
## 3902	0.008542798	0.0065935227	0.77182238	0.7508605	1.112799	0.9431038
## 3903	0.009148433	0.0073449122	0.80286014	0.7508605	1.112799	0.9431038
## 3904	0.009786485	0.0082077800	0.83868519	0.7508605	1.112799	0.9431038
## 3970	0.005869147	0.0044069107	0.75086050	0.7508605	1.112799	0.9431038
## 3971	0.006323071	0.0049324397	0.78007027	0.7508605	1.112799	0.9431038
## 3972	0.006772258	0.0055892922	0.82532181	0.7508605	1.112799	0.9431038
## 3973	0.007218566	0.0058328029	0.80802792	0.7508605	1.112799	0.9431038
## 4039	0.008810425	0.0072696820	0.82512274	0.7508605	1.112799	0.9431038

## 4040	0.009487069	0.0077517209	0.81708280	0.7508605	1.112799	0.9431038
## 4041	0.010188000	0.0084283163	0.82727879	0.7508605	1.112799	0.9431038
## 4042	0.010840000	0.0093236262	0.86011311	0.7508605	1.112799	0.9431038
## 5029	0.009167207	0.0090466043	0.98684411	0.7508605	1.112799	0.9431038
## 5030	0.009867146	0.0097081659	0.98388793	0.7508605	1.112799	0.9431038
## 5031	0.010568000	0.0104182894	0.98583359	0.7508605	1.112799	0.9431038
## 5032	0.011275000	0.0111589645	0.98970860	0.7508605	1.112799	0.9431038
## 5098	0.006599942	0.0064853602	0.98263897	0.7508605	1.112799	0.9431038
## 5099	0.007109138	0.0070047652	0.98531851	0.7508605	1.112799	0.9431038
## 5100	0.007616503	0.0073565029	0.96586359	0.7508605	1.112799	0.9431038
## 5101	0.008119809	0.0079930402	0.98438771	0.7508605	1.112799	0.9431038
## 5167	0.010602000	0.0108266050	1.02118516	0.7508605	1.112799	0.9431038
## 5168	0.011418000	0.0116236255	1.01800889	0.7508605	1.112799	0.9431038
## 5169	0.012230000	0.0123473373	1.00959422	0.7508605	1.112799	0.9431038
## 5170	0.013044000	0.0132352124	1.01465903	0.7508605	1.112799	0.9431038
## 6219	0.012851000	0.0112441453	0.87496267	0.7508605	1.112799	0.9431038
## 6220	0.013930000	0.0119474439	0.85767723	0.7508605	1.112799	0.9431038
## 6221	0.014820000	0.0125266814	0.84525516	0.7508605	1.112799	0.9431038
## 6222	0.015875000	0.0135112944	0.85110516	0.7508605	1.112799	0.9431038
## 6288	0.009522825	0.0094910181	0.99665993	0.7508605	1.112799	0.9431038
## 6289	0.010274000	0.0103349658	1.00593399	0.7508605	1.112799	0.9431038
## 6290	0.010978000	0.0104107174	0.94832550	0.7508605	1.112799	0.9431038
## 6291	0.011747000	0.0108995477	0.92785798	0.7508605	1.112799	0.9431038
## 6357	0.014359000	0.0124626433	0.86793254	0.7508605	1.112799	0.9431038
## 6358	0.015473000	0.0131564503	0.85028439	0.7508605	1.112799	0.9431038
## 6359	0.016564000	0.0139305337	0.84101266	0.7508605	1.112799	0.9431038
## 6360	0.017679000	0.0147618653	0.83499436	0.7508605	1.112799	0.9431038
## 794	0.005694056	0.0056209498	0.98716095	0.7930408	1.309740	0.9733161
## 795	0.005857640	0.0060920515	1.04001808	0.7930408	1.309740	0.9733161
## 796	0.006234086	0.0063948662	1.02579050	0.7930408	1.309740	0.9733161
## 797	0.006665444	0.0066956649	1.00453396	0.7930408	1.309740	0.9733161
## 840	0.004169039	0.0042962907	1.03052303	0.7930408	1.309740	0.9733161
## 841	0.004489196	0.0046686770	1.03998065	0.7930408	1.309740	0.9733161
## 842	0.004854599	0.0051076616	1.05212842	0.7930408	1.309740	0.9733161
## 843	0.005156067	0.0053256063	1.03288152	0.7930408	1.309740	0.9733161
## 885	0.004445129	0.0040096860	0.90204041	0.7930408	1.309740	0.9733161
## 886	0.004769063	0.0044056068	0.92378876	0.7930408	1.309740	0.9733161
## 887	0.005084101	0.0047362217	0.93157506	0.7930408	1.309740	0.9733161
## 888	0.005464131	0.0050374320	0.92190908	0.7930408	1.309740	0.9733161
## 1852	0.004386029	0.0039755006	0.90640090	0.7930408	1.309740	0.9733161
## 1853	0.004715979	0.0043494523	0.92227982	0.7930408	1.309740	0.9733161
## 1854	0.005067818	0.0047490293	0.93709547	0.7930408	1.309740	0.9733161
## 1855	0.005391401	0.0050980367	0.94558664	0.7930408	1.309740	0.9733161
## 1921	0.003621102	0.0031048101	0.85742134	0.7930408	1.309740	0.9733161
## 1922	0.003887852	0.0034804528	0.89521227	0.7930408	1.309740	0.9733161
## 1923	0.004176939	0.0037961068	0.90882506	0.7930408	1.309740	0.9733161
## 1924	0.004443464	0.0040701541	0.91598674	0.7930408	1.309740	0.9733161
## 1990	0.003813550	0.0032364309	0.84866618	0.7930408	1.309740	0.9733161
## 1991	0.004071532	0.0036182040	0.88865910	0.7930408	1.309740	0.9733161
## 1992	0.004378602	0.0038758591	0.88518187	0.7930408	1.309740	0.9733161
## 1993	0.004679497	0.0042988879	0.91866452	0.7930408	1.309740	0.9733161
## 2980	0.005381498	0.0058304787	1.08343043	0.7930408	1.309740	0.9733161
## 2981	0.005735971	0.0062741599	1.09382699	0.7930408	1.309740	0.9733161
## 2982	0.006135371	0.0065539206	1.06821912	0.7930408	1.309740	0.9733161



##	2983	0.006561684	0.0069381256	1.05736967	0.7930408	1.309740	0.9733161
##	3049	0.004637512	0.0051392103	1.10818263	0.7930408	1.309740	0.9733161
##	3050	0.004953998	0.0054769561	1.10556284	0.7930408	1.309740	0.9733161
##	3051	0.005271317	0.0060721518	1.15192310	0.7930408	1.309740	0.9733161
##	3052	0.005670462	0.0060916444	1.07427655	0.7930408	1.309740	0.9733161
##	3118	0.004803532	0.0053493772	1.11363413	0.7930408	1.309740	0.9733161
##	3119	0.005159700	0.0056955578	1.10385445	0.7930408	1.309740	0.9733161
##	3120	0.005514652	0.0061728346	1.11935161	0.7930408	1.309740	0.9733161
##	3121	0.005900004	0.0062467745	1.05877463	0.7930408	1.309740	0.9733161
##	4108	0.003459778	0.0029540207	0.85381798	0.7930408	1.309740	0.9733161
##	4109	0.003724869	0.0032943856	0.88442993	0.7930408	1.309740	0.9733161
##	4110	0.003983686	0.0035678517	0.89561569	0.7930408	1.309740	0.9733161
##	4111	0.004286570	0.0038603452	0.90056740	0.7930408	1.309740	0.9733161
##	4177	0.002872223	0.0023551751	0.81998336	0.7930408	1.309740	0.9733161
##	4178	0.003088577	0.0026783563	0.86718133	0.7930408	1.309740	0.9733161
##	4179	0.003303555	0.0030051555	0.90967322	0.7930408	1.309740	0.9733161
##	4180	0.003521990	0.0030728856	0.87248562	0.7930408	1.309740	0.9733161
##	4246	0.003056416	0.0024248447	0.79336214	0.7930408	1.309740	0.9733161
##	4247	0.003252930	0.0027741425	0.85281345	0.7930408	1.309740	0.9733161
##	4248	0.003464740	0.0030810619	0.88926208	0.7930408	1.309740	0.9733161
##	4249	0.003738215	0.0031657788	0.84686912	0.7930408	1.309740	0.9733161
##	5236	0.003820986	0.0030301977	0.79304077	0.7930408	1.309740	0.9733161
##	5237	0.004100893	0.0033462964	0.81599213	0.7930408	1.309740	0.9733161
##	5238	0.004399362	0.0036843668	0.83747752	0.7930408	1.309740	0.9733161
##	5239	0.004708935	0.0039706912	0.84322490	0.7930408	1.309740	0.9733161
##	5305	0.002935339	0.0024358414	0.82983306	0.7930408	1.309740	0.9733161
##	5306	0.003147694	0.0028131059	0.89370374	0.7930408	1.309740	0.9733161
##	5307	0.003353489	0.0030571743	0.91163989	0.7930408	1.309740	0.9733161
##	5308	0.003580532	0.0032293179	0.90191007	0.7930408	1.309740	0.9733161
##	5374	0.003227853	0.0025636293	0.79422122	0.7930408	1.309740	0.9733161
##	5375	0.003433296	0.0028992483	0.84445043	0.7930408	1.309740	0.9733161
##	5376	0.003650931	0.0032325614	0.88540742	0.7930408	1.309740	0.9733161
##	5377	0.003917463	0.0033575143	0.85706345	0.7930408	1.309740	0.9733161
##	6426	0.005169687	0.0061507923	1.18978041	0.7930408	1.309740	0.9733161
##	6427	0.005571035	0.0065090506	1.16837366	0.7930408	1.309740	0.9733161
##	6428	0.005399801	0.0070723378	1.30974046	0.7930408	1.309740	0.9733161
##	6429	0.005772828	0.0070279410	1.21741736	0.7930408	1.309740	0.9733161
##	6495	0.005239573	0.0055976270	1.06833648	0.7930408	1.309740	0.9733161
##	6496	0.005639641	0.0060853627	1.07903370	0.7930408	1.309740	0.9733161
##	6497	0.006018396	0.0061697268	1.02514470	0.7930408	1.309740	0.9733161
##	6498	0.006442048	0.0063500290	0.98571587	0.7930408	1.309740	0.9733161
##	6564	0.005372950	0.0056910081	1.05919617	0.7930408	1.309740	0.9733161
##	6565	0.005801307	0.0060198646	1.03767385	0.7930408	1.309740	0.9733161
##	6566	0.005305589	0.0063147643	1.19020986	0.7930408	1.309740	0.9733161
##	6567	0.005164787	0.0066801003	1.29339318	0.7930408	1.309740	0.9733161
##	931	0.029188000	0.0282887876	0.96919239	0.8934255	1.124281	0.9889197
##	932	0.031449000	0.0303817154	0.96606300	0.8934255	1.124281	0.9889197
##	933	0.033697000	0.0320162061	0.95012037	0.8934255	1.124281	0.9889197
##	934	0.035910000	0.0339213448	0.94462113	0.8934255	1.124281	0.9889197
##	1000	0.029188000	0.0282887876	0.96919239	0.8934255	1.124281	0.9889197
##	1001	0.031449000	0.0303817154	0.96606300	0.8934255	1.124281	0.9889197
##	1002	0.033697000	0.0320162061	0.95012037	0.8934255	1.124281	0.9889197
##	1003	0.035910000	0.0339213448	0.94462113	0.8934255	1.124281	0.9889197
##	2059	0.030794000	0.0316575445	1.02804262	0.8934255	1.124281	0.9889197

##	2060	0.033193000	0.0336541382	1.01389264	0.8934255	1.124281	0.9889197
##	2061	0.035535000	0.0357096827	1.00491579	0.8934255	1.124281	0.9889197
##	2062	0.037926000	0.0386152322	1.01817308	0.8934255	1.124281	0.9889197
##	2128	0.030794000	0.0316575445	1.02804262	0.8934255	1.124281	0.9889197
##	2129	0.033193000	0.0336541382	1.01389264	0.8934255	1.124281	0.9889197
##	2130	0.035535000	0.0357096827	1.00491579	0.8934255	1.124281	0.9889197
##	2131	0.037926000	0.0386152322	1.01817308	0.8934255	1.124281	0.9889197
##	3187	0.034607000	0.0337124416	0.97415094	0.8934255	1.124281	0.9889197
##	3188	0.037323000	0.0367409637	0.98440543	0.8934255	1.124281	0.9889197
##	3189	0.039940000	0.0377961456	0.94632312	0.8934255	1.124281	0.9889197
##	3190	0.042601000	0.0413579036	0.97082002	0.8934255	1.124281	0.9889197
##	3256	0.034607000	0.0337124416	0.97415094	0.8934255	1.124281	0.9889197
##	3257	0.037323000	0.0367409637	0.98440543	0.8934255	1.124281	0.9889197
##	3258	0.039940000	0.0377961456	0.94632312	0.8934255	1.124281	0.9889197
##	3259	0.042601000	0.0413579036	0.97082002	0.8934255	1.124281	0.9889197
##	4315	0.026058000	0.0236489702	0.90755124	0.8934255	1.124281	0.9889197
##	4316	0.028112000	0.0260079013	0.92515301	0.8934255	1.124281	0.9889197
##	4317	0.030086000	0.0268795990	0.89342548	0.8934255	1.124281	0.9889197
##	4318	0.032064000	0.0296011202	0.92318863	0.8934255	1.124281	0.9889197
##	4384	0.026058000	0.0236489702	0.90755124	0.8934255	1.124281	0.9889197
##	4385	0.028112000	0.0260079013	0.92515301	0.8934255	1.124281	0.9889197
##	4386	0.030086000	0.0268795990	0.89342548	0.8934255	1.124281	0.9889197
##	4387	0.032064000	0.0296011202	0.92318863	0.8934255	1.124281	0.9889197
##	5443	0.027452000	0.0275812656	1.00470879	0.8934255	1.124281	0.9889197
##	5444	0.029542000	0.0291751655	0.98758261	0.8934255	1.124281	0.9889197
##	5445	0.031696000	0.0322484704	1.01743029	0.8934255	1.124281	0.9889197
##	5446	0.033787000	0.0329712169	0.97585512	0.8934255	1.124281	0.9889197
##	5512	0.027452000	0.0275812656	1.00470879	0.8934255	1.124281	0.9889197
##	5513	0.029542000	0.0291751655	0.98758261	0.8934255	1.124281	0.9889197
##	5514	0.031696000	0.0322484704	1.01743029	0.8934255	1.124281	0.9889197
##	5515	0.033787000	0.0329712169	0.97585512	0.8934255	1.124281	0.9889197
##	6633	0.034230000	0.0384841230	1.12428054	0.8934255	1.124281	0.9889197
##	6634	0.036821000	0.0396883057	1.07787148	0.8934255	1.124281	0.9889197
##	6635	0.039562000	0.0413897690	1.04620012	0.8934255	1.124281	0.9889197
##	6636	0.042107000	0.0454800002	1.08010545	0.8934255	1.124281	0.9889197
##	6702	0.034230000	0.0384841230	1.12428054	0.8934255	1.124281	0.9889197
##	6703	0.036821000	0.0396883057	1.07787148	0.8934255	1.124281	0.9889197
##	6704	0.039562000	0.0413897690	1.04620012	0.8934255	1.124281	0.9889197
##	6705	0.042107000	0.0454800002	1.08010545	0.8934255	1.124281	0.9889197
##	91	0.978121000	0.5446454896	0.55682834	-0.1644887	1.682747	0.9340169
##	101	1.375211000	0.8824487158	0.64168242	-0.1644887	1.682747	0.9340169
##	112	2.028247000	0.8959390866	0.44173076	-0.1644887	1.682747	0.9340169
##	121	2.465399000	1.2730397804	0.51636258	-0.1644887	1.682747	0.9340169
##	411	1.526565000	1.1312219097	0.74102440	-0.1644887	1.682747	0.9340169
##	421	2.092922000	1.4587955491	0.69701382	-0.1644887	1.682747	0.9340169
##	431	2.787420000	1.7869889073	0.64109065	-0.1644887	1.682747	0.9340169
##	44	3.612343000	2.2166343329	0.61362787	-0.1644887	1.682747	0.9340169
##	731	2.708664000	1.5557147020	0.57434761	-0.1644887	1.682747	0.9340169
##	8851	0.199642000	0.3334587635	1.67028363	-0.1644887	1.682747	0.9340169
##	8861	0.265343000	0.4465051769	1.68274715	-0.1644887	1.682747	0.9340169
##	8871	0.395619000	0.5265306473	1.33090334	-0.1644887	1.682747	0.9340169
##	8881	0.501882000	0.6559939023	1.30706800	-0.1644887	1.682747	0.9340169
##	889	0.708494000	0.7616513095	1.07502860	-0.1644887	1.682747	0.9340169
##	890	0.909595000	0.9511954218	1.04573510	-0.1644887	1.682747	0.9340169

## 891	1.156493000	1.1262477484	0.97384744	-0.1644887	1.682747	0.9340169
## 917	0.332986000	0.3861085870	1.15953400	-0.1644887	1.682747	0.9340169
## 918	0.430690000	0.5071050673	1.17742475	-0.1644887	1.682747	0.9340169
## 919	0.557312000	0.6576561418	1.18005021	-0.1644887	1.682747	0.9340169
## 920	0.705082000	0.8263954815	1.17205585	-0.1644887	1.682747	0.9340169
## 921	0.922162000	1.0335399595	1.12077917	-0.1644887	1.682747	0.9340169
## 922	1.119760000	1.2700720944	1.13423599	-0.1644887	1.682747	0.9340169
## 923	1.385346000	1.4511330955	1.04748784	-0.1644887	1.682747	0.9340169
## 949	0.609062000	0.8265759913	1.35712947	-0.1644887	1.682747	0.9340169
## 950	0.808452000	0.8404941668	1.03963398	-0.1644887	1.682747	0.9340169
## 951	1.092388000	0.7160910140	0.65552809	-0.1644887	1.682747	0.9340169
## 952	1.424307000	1.2058926350	0.84665219	-0.1644887	1.682747	0.9340169
## 953	1.820274000	0.5509900433	0.30269621	-0.1644887	1.682747	0.9340169
## 954	2.246716000	1.1624033801	0.51737887	-0.1644887	1.682747	0.9340169
## 955	2.876398000	2.6052981724	0.90575024	-0.1644887	1.682747	0.9340169
## 2077	0.243375000	0.3556305066	1.46124502	-0.1644887	1.682747	0.9340169
## 2078	0.336296000	0.4771765805	1.41891839	-0.1644887	1.682747	0.9340169
## 2079	0.513046000	0.4745987755	0.92506086	-0.1644887	1.682747	0.9340169
## 2080	0.635450000	0.6504305204	1.02357466	-0.1644887	1.682747	0.9340169
## 2081	0.925978000	0.8536554524	0.92189604	-0.1644887	1.682747	0.9340169
## 2082	1.201687000	1.0217921747	0.85029810	-0.1644887	1.682747	0.9340169
## 2083	1.531609000	1.4694041374	0.95938594	-0.1644887	1.682747	0.9340169
## 2109	0.348456000	0.5519969212	1.58412230	-0.1644887	1.682747	0.9340169
## 2110	0.477743000	0.6994899869	1.46415539	-0.1644887	1.682747	0.9340169
## 2111	0.635646000	0.8318338801	1.30864330	-0.1644887	1.682747	0.9340169
## 2112	0.825602000	1.0977515001	1.32963765	-0.1644887	1.682747	0.9340169
## 2113	1.049856000	1.2584863520	1.19872283	-0.1644887	1.682747	0.9340169
## 2114	1.312091000	1.5081358295	1.14941405	-0.1644887	1.682747	0.9340169
## 2115	1.612942000	1.7928227146	1.11152336	-0.1644887	1.682747	0.9340169
## 2141	0.824764000	0.6271897396	0.76044752	-0.1644887	1.682747	0.9340169
## 2142	1.107239000	1.1000564264	0.99351308	-0.1644887	1.682747	0.9340169
## 2143	1.443797000	0.7005335077	0.48520222	-0.1644887	1.682747	0.9340169
## 2144	1.840353000	0.8883048312	0.48268176	-0.1644887	1.682747	0.9340169
## 2145	2.414924000	0.6558917970	0.27159935	-0.1644887	1.682747	0.9340169
## 2146	2.972525000	0.1996306802	0.06715862	-0.1644887	1.682747	0.9340169
## 3205	0.276030000	0.3586240464	1.29922127	-0.1644887	1.682747	0.9340169
## 3206	0.375044000	0.4523269656	1.20606373	-0.1644887	1.682747	0.9340169
## 3207	0.512305000	0.5923406095	1.15622649	-0.1644887	1.682747	0.9340169
## 3208	0.633335000	0.5897547030	0.93118919	-0.1644887	1.682747	0.9340169
## 3209	0.908797000	0.7198232378	0.79206164	-0.1644887	1.682747	0.9340169
## 3210	1.130625000	1.0508147362	0.92941049	-0.1644887	1.682747	0.9340169
## 3211	1.474136000	1.3828773208	0.93809345	-0.1644887	1.682747	0.9340169
## 3237	0.487501000	0.6839362511	1.40294328	-0.1644887	1.682747	0.9340169
## 3238	0.658732000	0.8983549303	1.36376391	-0.1644887	1.682747	0.9340169
## 3239	0.834033000	1.1125724562	1.33396695	-0.1644887	1.682747	0.9340169
## 3240	1.064739000	1.3536239274	1.27131995	-0.1644887	1.682747	0.9340169
## 3241	1.351378000	1.5506501042	1.14745845	-0.1644887	1.682747	0.9340169
## 3242	1.635918000	1.8856323373	1.15264478	-0.1644887	1.682747	0.9340169
## 3243	2.081551000	2.2409512219	1.07657762	-0.1644887	1.682747	0.9340169
## 3269	0.884487000	0.6233538957	0.70476321	-0.1644887	1.682747	0.9340169
## 3270	1.246528000	0.7304853246	0.58601598	-0.1644887	1.682747	0.9340169
## 3271	1.553137000	0.7977417836	0.51363259	-0.1644887	1.682747	0.9340169
## 3272	2.006939000	-0.1063477315	-0.05299002	-0.1644887	1.682747	0.9340169
## 3273	2.567438000	-0.2555817172	-0.09954738	-0.1644887	1.682747	0.9340169

##	3274	3.127545000	-0.5144458767	-0.16448872	-0.1644887	1.682747	0.9340169
##	1052	0.574422000	0.8234708916	1.43356433	-0.5644775	2.274410	1.1574747
##	1067	0.789820000	0.9142252244	1.15751086	-0.5644775	2.274410	1.1574747
##	1071	1.053489000	1.0459418954	0.99283609	-0.5644775	2.274410	1.1574747
##	1081	1.367912000	1.0318466263	0.75432237	-0.5644775	2.274410	1.1574747
##	1091	1.744985000	1.2953133566	0.74230630	-0.5644775	2.274410	1.1574747
##	1101	2.182927000	1.3784748813	0.63148006	-0.5644775	2.274410	1.1574747
##	1111	2.704719000	1.7652352155	0.65265013	-0.5644775	2.274410	1.1574747
##	1371	0.427019000	0.6858248470	1.60607572	-0.5644775	2.274410	1.1574747
##	1387	0.581948000	0.7812270412	1.34243445	-0.5644775	2.274410	1.1574747
##	1391	0.777156000	0.8615142438	1.10854738	-0.5644775	2.274410	1.1574747
##	1401	1.012151000	0.9436529356	0.93232426	-0.5644775	2.274410	1.1574747
##	1411	1.287280000	1.1013907293	0.85559531	-0.5644775	2.274410	1.1574747
##	1421	1.603741000	1.2241657696	0.76331887	-0.5644775	2.274410	1.1574747
##	1431	1.977930000	1.4352279238	0.72562119	-0.5644775	2.274410	1.1574747
##	1691	0.426186000	0.7274438971	1.70686953	-0.5644775	2.274410	1.1574747
##	1701	0.581449000	0.8122086694	1.39687001	-0.5644775	2.274410	1.1574747
##	1711	0.777792000	0.9242684249	1.18832339	-0.5644775	2.274410	1.1574747
##	1721	1.010832000	1.0218073130	1.01085770	-0.5644775	2.274410	1.1574747
##	1731	1.282447000	1.2255804723	0.95565780	-0.5644775	2.274410	1.1574747
##	1741	1.607588000	1.2794781639	0.79589930	-0.5644775	2.274410	1.1574747
##	1751	1.973836000	1.4857422866	0.75271820	-0.5644775	2.274410	1.1574747
##	981	0.142066000	-0.0463321168	-0.32613093	-0.5644775	2.274410	1.1574747
##	982	0.183725000	0.0221522818	0.12057304	-0.5644775	2.274410	1.1574747
##	983	0.235590000	0.3258069614	1.38294054	-0.5644775	2.274410	1.1574747
##	984	0.302286000	0.1636098321	0.54124184	-0.5644775	2.274410	1.1574747
##	985	0.392321000	0.2945111153	0.75068914	-0.5644775	2.274410	1.1574747
##	986	0.485397000	0.7177833227	1.47875517	-0.5644775	2.274410	1.1574747
##	987	0.590952000	0.5670186032	0.95950027	-0.5644775	2.274410	1.1574747
##	1013	0.088341000	0.0725003559	0.82068752	-0.5644775	2.274410	1.1574747
##	1014	0.117586000	0.0848387044	0.72150345	-0.5644775	2.274410	1.1574747
##	1015	0.160417000	0.2187347984	1.36353877	-0.5644775	2.274410	1.1574747
##	1016	0.197848000	0.3747294407	1.89402693	-0.5644775	2.274410	1.1574747
##	1017	0.244990000	0.2259697362	0.92236310	-0.5644775	2.274410	1.1574747
##	1018	0.314030000	0.3027692821	0.96414127	-0.5644775	2.274410	1.1574747
##	1019	0.378562000	0.3295843702	0.87062191	-0.5644775	2.274410	1.1574747
##	1045	0.110761000	-0.0625220932	-0.56447751	-0.5644775	2.274410	1.1574747
##	1046	0.141990000	-0.0198217507	-0.13959962	-0.5644775	2.274410	1.1574747
##	1047	0.201340000	0.0701609263	0.34846988	-0.5644775	2.274410	1.1574747
##	1048	0.250225000	0.1835196664	0.73341859	-0.5644775	2.274410	1.1574747
##	1049	0.314433000	0.3180819136	1.01160474	-0.5644775	2.274410	1.1574747
##	1050	0.371677000	0.5427514452	1.46027719	-0.5644775	2.274410	1.1574747
##	1051	0.476845000	0.5716004155	1.19871324	-0.5644775	2.274410	1.1574747
##	2173	0.151711000	0.1974583819	1.30154295	-0.5644775	2.274410	1.1574747
##	2174	0.201266000	0.2518838268	1.25149716	-0.5644775	2.274410	1.1574747
##	2175	0.278392000	0.4297274421	1.54360557	-0.5644775	2.274410	1.1574747
##	2176	0.346205000	0.4051253454	1.17018918	-0.5644775	2.274410	1.1574747
##	2177	0.463402000	0.5937574807	1.28130107	-0.5644775	2.274410	1.1574747
##	2178	0.568114000	0.6767364510	1.19119834	-0.5644775	2.274410	1.1574747
##	2179	0.744873000	0.7428567441	0.99729315	-0.5644775	2.274410	1.1574747
##	2205	0.098118000	0.1688307448	1.72069085	-0.5644775	2.274410	1.1574747
##	2206	0.134374000	0.2369125262	1.76308308	-0.5644775	2.274410	1.1574747
##	2207	0.177049000	0.3235251455	1.82731981	-0.5644775	2.274410	1.1574747
##	2208	0.233936000	0.4047657534	1.73024141	-0.5644775	2.274410	1.1574747

##	2209	0.304003000	0.4984360182	1.63957599	-0.5644775	2.274410	1.1574747
##	2210	0.391221000	0.5980028134	1.52855499	-0.5644775	2.274410	1.1574747
##	2211	0.496260000	0.7418440683	1.49486976	-0.5644775	2.274410	1.1574747
##	2237	0.132487000	0.3013297761	2.27441014	-0.5644775	2.274410	1.1574747
##	2238	0.178371000	0.3712302202	2.08122520	-0.5644775	2.274410	1.1574747
##	2239	0.233217000	0.4342301761	1.86191477	-0.5644775	2.274410	1.1574747
##	2240	0.302799000	0.5006145970	1.65329013	-0.5644775	2.274410	1.1574747
##	2241	0.404817000	0.6823841695	1.68566085	-0.5644775	2.274410	1.1574747
##	2242	0.494930000	0.7540947608	1.52363922	-0.5644775	2.274410	1.1574747
##	2243	0.640185000	1.0112952754	1.57969224	-0.5644775	2.274410	1.1574747
##	3301	0.194710000	0.2273686208	1.16772955	-0.5644775	2.274410	1.1574747
##	3302	0.244753000	0.1074854810	0.43915899	-0.5644775	2.274410	1.1574747
##	3303	0.311343000	0.3823382455	1.22802904	-0.5644775	2.274410	1.1574747
##	3304	0.400221000	0.4937075810	1.23358740	-0.5644775	2.274410	1.1574747
##	3305	0.516393000	0.4803276898	0.93015918	-0.5644775	2.274410	1.1574747
##	3306	0.639570000	0.6649877514	1.03974194	-0.5644775	2.274410	1.1574747
##	3307	0.793921000	0.7597254458	0.95692827	-0.5644775	2.274410	1.1574747
##	3333	0.133473000	0.1526988022	1.14404263	-0.5644775	2.274410	1.1574747
##	3334	0.184036000	0.1968543631	1.06965139	-0.5644775	2.274410	1.1574747
##	3335	0.237106000	0.2538046571	1.07042697	-0.5644775	2.274410	1.1574747
##	3336	0.299905000	0.4694173803	1.56522025	-0.5644775	2.274410	1.1574747
##	3337	0.372982000	0.6047374699	1.62135832	-0.5644775	2.274410	1.1574747
##	3338	0.453481000	0.5695579293	1.25596867	-0.5644775	2.274410	1.1574747
##	3339	0.576876000	0.7771411101	1.34715452	-0.5644775	2.274410	1.1574747
##	3365	0.166256000	0.2379142452	1.43101148	-0.5644775	2.274410	1.1574747
##	3366	0.223455000	0.3935228734	1.76108332	-0.5644775	2.274410	1.1574747
##	3367	0.282645000	0.4279347038	1.51403600	-0.5644775	2.274410	1.1574747
##	3368	0.360280000	0.5271040775	1.46304007	-0.5644775	2.274410	1.1574747
##	3369	0.449516000	0.6365199445	1.41601176	-0.5644775	2.274410	1.1574747
##	3370	0.560683000	0.6668258509	1.18930991	-0.5644775	2.274410	1.1574747
##	3371	0.709537000	0.8974132901	1.26478716	-0.5644775	2.274410	1.1574747
##	2011	0.336459000	0.6763646967	2.01024403	-2.1809231	2.804867	1.0764080
##	2021	0.452814000	0.7763431813	1.71448582	-2.1809231	2.804867	1.0764080
##	2031	0.610303000	0.9051522973	1.48311953	-2.1809231	2.804867	1.0764080
##	2041	0.780214000	0.9288445336	1.19049970	-2.1809231	2.804867	1.0764080
##	2051	0.996892000	1.1761686540	1.17983558	-2.1809231	2.804867	1.0764080
##	2063	1.251513000	1.1965531985	0.95608531	-2.1809231	2.804867	1.0764080
##	2071	1.459678000	1.3753043160	0.94219706	-2.1809231	2.804867	1.0764080
##	2331	0.501912000	0.6139541206	1.22323061	-2.1809231	2.804867	1.0764080
##	2341	0.688407000	0.7384106187	1.07263671	-2.1809231	2.804867	1.0764080
##	2355	0.916252000	0.8628963220	0.94176746	-2.1809231	2.804867	1.0764080
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##	2371	1.512510000	1.1115726624	0.73491922	-2.1809231	2.804867	1.0764080
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##	2681	2.175319000	1.2444548392	0.57207924	-2.1809231	2.804867	1.0764080
##	2691	2.770067000	1.3341560563	0.48163314	-2.1809231	2.804867	1.0764080
##	2701	3.461136000	1.6542689410	0.47795549	-2.1809231	2.804867	1.0764080
##	1077	0.079118000	0.2219155044	2.80486747	-2.1809231	2.804867	1.0764080
##	1078	0.116742000	-0.2546053277	-2.18092313	-2.1809231	2.804867	1.0764080
##	1079	0.150513000	0.0679439894	0.45141609	-2.1809231	2.804867	1.0764080

## 1080	0.165771000	0.1656613013	0.99933825	-2.1809231	2.804867	1.0764080
## 10811	0.213020000	0.2540610485	1.19266289	-2.1809231	2.804867	1.0764080
## 1082	0.334893000	0.4003637480	1.19549751	-2.1809231	2.804867	1.0764080
## 1083	0.516470000	0.5138740203	0.99497361	-2.1809231	2.804867	1.0764080
## 1109	0.102078000	-0.0046285193	-0.04534297	-2.1809231	2.804867	1.0764080
## 1110	0.138299000	0.0679233994	0.49113442	-2.1809231	2.804867	1.0764080
## 11111	0.177793000	0.0955320898	0.53732200	-2.1809231	2.804867	1.0764080
## 1112	0.236808000	0.2003180404	0.84590909	-2.1809231	2.804867	1.0764080
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##	2398	0.058081000	-0.2006400243	-3.45448639	-8.6256162	3.511853	0.4889317
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##	2432	0.086501000	-0.1860942013	-2.15135318	-8.6256162	3.511853	0.4889317
##	2433	0.109639000	-0.1385157693	-1.26338045	-8.6256162	3.511853	0.4889317
##	2434	0.136834000	-0.0853604549	-0.62382489	-8.6256162	3.511853	0.4889317
##	2435	0.168488000	0.0271715701	0.16126709	-8.6256162	3.511853	0.4889317
##	3493	0.095057000	0.1522516398	1.60168783	-8.6256162	3.511853	0.4889317
##	3494	0.134673000	0.1608033684	1.19402826	-8.6256162	3.511853	0.4889317
##	3495	0.178817000	0.2234554014	1.24963175	-8.6256162	3.511853	0.4889317
##	3496	0.230098000	0.2633947107	1.14470665	-8.6256162	3.511853	0.4889317
##	3497	0.301596000	0.3401156430	1.12771934	-8.6256162	3.511853	0.4889317
##	3498	0.370566000	0.4489899496	1.21163288	-8.6256162	3.511853	0.4889317
##	3499	0.465388000	0.5153904751	1.10744255	-8.6256162	3.511853	0.4889317
##	3525	0.048175000	0.0916012104	1.90142627	-8.6256162	3.511853	0.4889317
##	3526	0.065990000	0.1457703030	2.20897565	-8.6256162	3.511853	0.4889317
##	3527	0.087888000	0.1344795051	1.53012362	-8.6256162	3.511853	0.4889317
##	3528	0.113886000	0.2016621691	1.77073713	-8.6256162	3.511853	0.4889317
##	3529	0.145067000	0.2975600852	2.05119073	-8.6256162	3.511853	0.4889317
##	3530	0.173402000	0.3035084053	1.75031664	-8.6256162	3.511853	0.4889317
##	3531	0.223274000	0.2932417742	1.31337180	-8.6256162	3.511853	0.4889317
##	3557	0.048196000	-0.0444477191	-0.92222838	-8.6256162	3.511853	0.4889317
##	3558	0.066098000	-0.0355550154	-0.53791363	-8.6256162	3.511853	0.4889317
##	3559	0.087802000	-0.0014505404	-0.01652059	-8.6256162	3.511853	0.4889317
##	3560	0.114160000	0.0255094209	0.22345323	-8.6256162	3.511853	0.4889317
##	3561	0.135805000	0.0463255399	0.34111807	-8.6256162	3.511853	0.4889317
##	3562	0.175375000	0.0863538113	0.49239522	-8.6256162	3.511853	0.4889317
##	3563	0.221572000	0.1479380593	0.66767488	-8.6256162	3.511853	0.4889317
##	4011	0.007858573	0.0076903226	0.97859022	0.2146374	1.636230	0.9687937
##	4021	0.009580951	0.0053711733	0.56060962	0.2146374	1.636230	0.9687937
##	4031	0.010718000	0.0153768696	1.43467714	0.2146374	1.636230	0.9687937
##	4043	0.011716000	0.0156063524	1.33205466	0.2146374	1.636230	0.9687937
##	4331	0.014619000	0.0105698540	0.72302168	0.2146374	1.636230	0.9687937
##	4341	0.016479000	0.0171589152	1.04125950	0.2146374	1.636230	0.9687937
##	4351	0.018222000	0.0174773583	0.95913502	0.2146374	1.636230	0.9687937
##	4361	0.020218000	0.0178584948	0.88329681	0.2146374	1.636230	0.9687937
##	4651	0.019972000	0.0185949969	0.93105332	0.2146374	1.636230	0.9687937
##	4661	0.022758000	0.0191401841	0.84103103	0.2146374	1.636230	0.9687937
##	4675	0.024880000	0.0227929960	0.91611720	0.2146374	1.636230	0.9687937
##	4681	0.027748000	0.0322483568	1.16218671	0.2146374	1.636230	0.9687937
##	1277	0.003315232	0.0034902154	1.05278164	0.2146374	1.636230	0.9687937
##	1278	0.003820420	0.0040385797	1.05710360	0.2146374	1.636230	0.9687937
##	1279	0.004094183	0.0036366179	0.88824020	0.2146374	1.636230	0.9687937
##	1280	0.004600299	0.0045908965	0.99795611	0.2146374	1.636230	0.9687937
##	1309	0.003258525	0.0031147438	0.95587538	0.2146374	1.636230	0.9687937
##	1310	0.003744514	0.0035806198	0.95623086	0.2146374	1.636230	0.9687937



## 1311	0.004034756	0.0034795856	0.86240297	0.2146374	1.636230	0.9687937
## 1312	0.004529448	0.0042316698	0.93425729	0.2146374	1.636230	0.9687937
## 1341	0.003130372	0.0031147438	0.99500757	0.2146374	1.636230	0.9687937
## 1342	0.003502343	0.0035806198	1.02234985	0.2146374	1.636230	0.9687937
## 1343	0.003872585	0.0034795856	0.89851754	0.2146374	1.636230	0.9687937
## 1344	0.004318379	0.0042316698	0.97992090	0.2146374	1.636230	0.9687937
## 1373	0.004117681	0.0038228330	0.92839465	0.2146374	1.636230	0.9687937
## 1374	0.004590966	0.0042827441	0.93286340	0.2146374	1.636230	0.9687937
## 1375	0.005073050	0.0048423615	0.95452666	0.2146374	1.636230	0.9687937
## 1376	0.005622079	0.0053873000	0.95823982	0.2146374	1.636230	0.9687937
## 2469	0.003647532	0.0059682018	1.63623015	0.2146374	1.636230	0.9687937
## 2470	0.004079993	0.0036109467	0.88503746	0.2146374	1.636230	0.9687937
## 2471	0.004581221	0.0062518607	1.36467128	0.2146374	1.636230	0.9687937
## 2472	0.005140365	0.0029708077	0.57793711	0.2146374	1.636230	0.9687937
## 2501	0.004286355	0.0027602711	0.64396697	0.2146374	1.636230	0.9687937
## 2502	0.004443852	0.0061669372	1.38774585	0.2146374	1.636230	0.9687937
## 2503	0.005015797	0.0066018917	1.31621988	0.2146374	1.636230	0.9687937
## 2504	0.005472993	0.0011747092	0.21463744	0.2146374	1.636230	0.9687937
## 2533	0.005695312	0.0012527496	0.21996153	0.2146374	1.636230	0.9687937
## 2534	0.005897479	0.0041855536	0.70971912	0.2146374	1.636230	0.9687937
## 2535	0.006668103	0.0080467174	1.20674761	0.2146374	1.636230	0.9687937
## 2536	0.007267789	0.0056975740	0.78394874	0.2146374	1.636230	0.9687937
## 3597	0.004352953	0.0041481402	0.95294855	0.2146374	1.636230	0.9687937
## 3598	0.004985618	0.0053670472	1.07650589	0.2146374	1.636230	0.9687937
## 3599	0.005619884	0.0062556311	1.11312460	0.2146374	1.636230	0.9687937
## 3600	0.006479076	0.0063919906	0.98655897	0.2146374	1.636230	0.9687937
## 3629	0.004681238	0.0053231439	1.13712312	0.2146374	1.636230	0.9687937
## 3630	0.005097998	0.0056900269	1.11612968	0.2146374	1.636230	0.9687937
## 36311	0.005731620	0.0061798182	1.07819748	0.2146374	1.636230	0.9687937
## 3632	0.006281978	0.0067370106	1.07243461	0.2146374	1.636230	0.9687937
## 36611	0.006377179	0.0055672109	0.87298960	0.2146374	1.636230	0.9687937
## 3662	0.006772308	0.0064964834	0.95927170	0.2146374	1.636230	0.9687937
## 3663	0.007754980	0.0070708954	0.91178770	0.2146374	1.636230	0.9687937
## 3664	0.008399225	0.0085309014	1.01567720	0.2146374	1.636230	0.9687937
## 4971	0.004179565	0.0029450562	0.70463223	-0.7813010	1.850718	0.9905359
## 4981	0.004704822	0.0035116565	0.74639518	-0.7813010	1.850718	0.9905359
## 4991	0.005116939	0.0048552224	0.94885291	-0.7813010	1.850718	0.9905359
## 5001	0.005656946	0.0070671988	1.24929578	-0.7813010	1.850718	0.9905359
## 5291	0.003484657	0.0027423712	0.78698454	-0.7813010	1.850718	0.9905359
## 5301	0.003976477	0.0049654458	1.24870477	-0.7813010	1.850718	0.9905359
## 5311	0.004379826	0.0030714728	0.70127735	-0.7813010	1.850718	0.9905359
## 5321	0.004779623	0.0048871068	1.02248792	-0.7813010	1.850718	0.9905359
## 5611	0.003711609	0.0026273648	0.70787759	-0.7813010	1.850718	0.9905359
## 5621	0.004497765	0.0068614645	1.52552757	-0.7813010	1.850718	0.9905359
## 5631	0.004636726	0.0052079928	1.12320477	-0.7813010	1.850718	0.9905359
## 5641	0.005009646	0.0041247591	0.82336339	-0.7813010	1.850718	0.9905359
## 1405	0.001001356	0.0009985860	0.99723379	-0.7813010	1.850718	0.9905359
## 1406	0.001122541	0.0012259498	1.09212027	-0.7813010	1.850718	0.9905359
## 1407	0.001263373	0.0012878754	1.01939441	-0.7813010	1.850718	0.9905359
## 1408	0.001404591	0.0017412810	1.23970682	-0.7813010	1.850718	0.9905359
## 1437	0.000976362	0.0008474630	0.86798034	-0.7813010	1.850718	0.9905359
## 1438	0.001095692	0.0009273015	0.84631586	-0.7813010	1.850718	0.9905359
## 1439	0.001242252	0.0010821372	0.87110924	-0.7813010	1.850718	0.9905359
## 1440	0.001378926	0.0013280834	0.96312886	-0.7813010	1.850718	0.9905359

## 1469	0.000860744	0.0008474630	0.98457035	-0.7813010	1.850718	0.9905359
## 1470	0.000951721	0.0009273015	0.97434176	-0.7813010	1.850718	0.9905359
## 1471	0.001059978	0.0010821372	1.02090533	-0.7813010	1.850718	0.9905359
## 1472	0.001176203	0.0013280834	1.12912773	-0.7813010	1.850718	0.9905359
## 1501	0.000857833	0.0008550831	0.99679441	-0.7813010	1.850718	0.9905359
## 1502	0.000949642	0.0010283727	1.08290570	-0.7813010	1.850718	0.9905359
## 1503	0.001063274	0.0010606515	0.99753355	-0.7813010	1.850718	0.9905359
## 1504	0.001177035	0.0012733237	1.08180613	-0.7813010	1.850718	0.9905359
## 2565	0.001390152	0.0023248729	1.67238757	-0.7813010	1.850718	0.9905359
## 2566	0.001660573	0.0012885132	0.77594492	-0.7813010	1.850718	0.9905359
## 2567	0.001783095	0.0022803400	1.27886625	-0.7813010	1.850718	0.9905359
## 2568	0.001988399	0.0025765926	1.29581265	-0.7813010	1.850718	0.9905359
## 2597	0.001322922	0.0008641428	0.65320764	-0.7813010	1.850718	0.9905359
## 2598	0.001481284	0.0027414389	1.85071798	-0.7813010	1.850718	0.9905359
## 2599	0.001656060	0.0024089594	1.45463292	-0.7813010	1.850718	0.9905359
## 2600	0.001831573	0.0012688206	0.69274913	-0.7813010	1.850718	0.9905359
## 2629	0.001332232	0.0020544682	1.54212494	-0.7813010	1.850718	0.9905359
## 2630	0.001481505	0.0011621281	0.78442399	-0.7813010	1.850718	0.9905359
## 2631	0.001650811	0.0011294372	0.68417109	-0.7813010	1.850718	0.9905359
## 2632	0.001844114	0.0012216610	0.66246503	-0.7813010	1.850718	0.9905359
## 3693	0.001583604	0.0016756699	1.05813697	-0.7813010	1.850718	0.9905359
## 3694	0.001808146	0.0018848917	1.04244443	-0.7813010	1.850718	0.9905359
## 3695	0.002034064	-0.0015892162	-0.78130096	-0.7813010	1.850718	0.9905359
## 3696	0.002245710	0.0023365793	1.04046349	-0.7813010	1.850718	0.9905359
## 3725	0.001500680	0.0014537988	0.96876000	-0.7813010	1.850718	0.9905359
## 3726	0.001688197	0.0016444000	0.97405693	-0.7813010	1.850718	0.9905359
## 3727	0.001887074	0.0019387069	1.02736136	-0.7813010	1.850718	0.9905359
## 3728	0.002083135	0.0019894692	0.95503616	-0.7813010	1.850718	0.9905359
## 3757	0.001533608	0.0016870702	1.10006615	-0.7813010	1.850718	0.9905359
## 3758	0.001705861	0.0017201531	1.00837822	-0.7813010	1.850718	0.9905359
## 3759	0.001886914	0.0019434907	1.02998374	-0.7813010	1.850718	0.9905359
## 3760	0.002083327	0.0020487372	0.98339683	-0.7813010	1.850718	0.9905359
## 5941	0.010600000	0.0109436463	1.03241946	0.8067729	1.087134	0.9706821
## 5951	0.011275000	0.0109884020	0.97458111	0.8067729	1.087134	0.9706821
## 5961	0.012118000	0.0130234227	1.07471717	0.8067729	1.087134	0.9706821
## 5971	0.012846000	0.0128520626	1.00047194	0.8067729	1.087134	0.9706821
## 628	0.006163960	0.0066668047	1.08157819	0.8067729	1.087134	0.9706821
## 629	0.006567501	0.0054456680	0.82918419	0.8067729	1.087134	0.9706821
## 630	0.007142128	0.0074681597	1.04564910	0.8067729	1.087134	0.9706821
## 631	0.007357529	0.0071989013	0.97844009	0.8067729	1.087134	0.9706821
## 6621	0.006171001	0.0063911956	1.03568215	0.8067729	1.087134	0.9706821
## 6631	0.006587917	0.0067870812	1.03023175	0.8067729	1.087134	0.9706821
## 664	0.007159761	0.0071134706	0.99353465	0.8067729	1.087134	0.9706821
## 665	0.007432500	0.0073238654	0.98538384	0.8067729	1.087134	0.9706821
## 1534	0.003695120	0.0035724943	0.96681416	0.8067729	1.087134	0.9706821
## 1535	0.003978516	0.0037064452	0.93161500	0.8067729	1.087134	0.9706821
## 1536	0.004265653	0.0040984707	0.96080733	0.8067729	1.087134	0.9706821
## 1537	0.004545113	0.0041460138	0.91219157	0.8067729	1.087134	0.9706821
## 1603	0.003866441	0.0033339194	0.86227087	0.8067729	1.087134	0.9706821
## 1604	0.004162509	0.0038756541	0.93108606	0.8067729	1.087134	0.9706821
## 1605	0.004459728	0.0039178087	0.87848601	0.8067729	1.087134	0.9706821
## 1606	0.004756115	0.0042491509	0.89340793	0.8067729	1.087134	0.9706821
## 1672	0.005273495	0.0050957874	0.96630174	0.8067729	1.087134	0.9706821
## 1673	0.005679419	0.0054295776	0.95600934	0.8067729	1.087134	0.9706821

## 1674	0.006078335	0.0059711363	0.98236380	0.8067729	1.087134	0.9706821
## 1675	0.006485666	0.0062960133	0.97075818	0.8067729	1.087134	0.9706821
## 2662	0.004906615	0.0040595681	0.82736635	0.8067729	1.087134	0.9706821
## 2663	0.005283079	0.0042622452	0.80677294	0.8067729	1.087134	0.9706821
## 2664	0.005661176	0.0048528026	0.85720751	0.8067729	1.087134	0.9706821
## 2665	0.005439648	0.0053455867	0.98270820	0.8067729	1.087134	0.9706821
## 2731	0.004854618	0.0047131595	0.97086105	0.8067729	1.087134	0.9706821
## 2732	0.004948310	0.0047324897	0.95638505	0.8067729	1.087134	0.9706821
## 2733	0.005241513	0.0056982281	1.08713422	0.8067729	1.087134	0.9706821
## 2734	0.005591867	0.0056159126	1.00430010	0.8067729	1.087134	0.9706821
## 2800	0.007024293	0.0061446506	0.87477139	0.8067729	1.087134	0.9706821
## 2801	0.007550448	0.0080505288	1.06623193	0.8067729	1.087134	0.9706821
## 2802	0.008106490	0.0065944752	0.81348095	0.8067729	1.087134	0.9706821
## 2803	0.007714346	0.0077219145	1.00098109	0.8067729	1.087134	0.9706821
## 3790	0.005848810	0.0060573415	1.03565366	0.8067729	1.087134	0.9706821
## 3791	0.006300871	0.0064289347	1.02032477	0.8067729	1.087134	0.9706821
## 3792	0.006750242	0.0067401409	0.99850359	0.8067729	1.087134	0.9706821
## 3793	0.007197499	0.0073226285	1.01738514	0.8067729	1.087134	0.9706821
## 3859	0.006108197	0.0063659397	1.04219619	0.8067729	1.087134	0.9706821
## 3860	0.006579902	0.0068378417	1.03920114	0.8067729	1.087134	0.9706821
## 3861	0.007049267	0.0073272309	1.03943160	0.8067729	1.087134	0.9706821
## 3862	0.007517390	0.0076808527	1.02174461	0.8067729	1.087134	0.9706821
## 3928	0.008332225	0.0080813082	0.96988598	0.8067729	1.087134	0.9706821
## 3929	0.008995924	0.0087185212	0.96916350	0.8067729	1.087134	0.9706821
## 3930	0.009636783	0.0092485315	0.95971150	0.8067729	1.087134	0.9706821
## 3931	0.010259000	0.0098215011	0.95735463	0.8067729	1.087134	0.9706821
## 696	0.009419067	0.0087664298	0.93071106	0.4860771	1.532474	0.8900366
## 697	0.010085000	0.0066399889	0.65840247	0.4860771	1.532474	0.8900366
## 698	0.010819000	0.0085388600	0.78924669	0.4860771	1.532474	0.8900366
## 699	0.011544000	0.0082228347	0.71230377	0.4860771	1.532474	0.8900366
## 720	0.009247538	0.0100007052	1.08144516	0.4860771	1.532474	0.8900366
## 721	0.009973317	0.0089789906	0.90030133	0.4860771	1.532474	0.8900366
## 722	0.010829000	0.0074607983	0.68896466	0.4860771	1.532474	0.8900366
## 723	0.011452000	0.0076764747	0.67031739	0.4860771	1.532474	0.8900366
## 744	0.009754165	0.0061139089	0.62679982	0.4860771	1.532474	0.8900366
## 745	0.010532000	0.0072586281	0.68919750	0.4860771	1.532474	0.8900366
## 746	0.011293000	0.0056702904	0.50210665	0.4860771	1.532474	0.8900366
## 747	0.012116000	0.0058893106	0.48607714	0.4860771	1.532474	0.8900366
## 17411	0.002414680	0.0022158691	0.91766573	0.4860771	1.532474	0.8900366
## 1742	0.002601881	0.0025388128	0.97576054	0.4860771	1.532474	0.8900366
## 1743	0.002774170	0.0025715872	0.92697534	0.4860771	1.532474	0.8900366
## 1744	0.002972188	0.0026549134	0.89325217	0.4860771	1.532474	0.8900366
## 1810	0.002531356	0.0022190554	0.87662715	0.4860771	1.532474	0.8900366
## 1811	0.002725343	0.0024615263	0.90319871	0.4860771	1.532474	0.8900366
## 1812	0.002915777	0.0026366086	0.90425592	0.4860771	1.532474	0.8900366
## 1813	0.003113923	0.0028173545	0.90476050	0.4860771	1.532474	0.8900366
## 1879	0.002414452	0.0021921708	0.90793720	0.4860771	1.532474	0.8900366
## 1880	0.002599702	0.0023828202	0.91657434	0.4860771	1.532474	0.8900366
## 1881	0.002773271	0.0025534382	0.92073160	0.4860771	1.532474	0.8900366
## 1882	0.002967449	0.0027662619	0.93220200	0.4860771	1.532474	0.8900366
## 2869	0.003837717	0.0028760910	0.74942759	0.4860771	1.532474	0.8900366
## 2870	0.004061738	0.0032817471	0.80796622	0.4860771	1.532474	0.8900366
## 2871	0.004414522	0.0043034410	0.97483736	0.4860771	1.532474	0.8900366
## 2872	0.004704012	0.0046120770	0.98045605	0.4860771	1.532474	0.8900366

##	2938	0.003774517	0.0029637461	0.78519877	0.4860771	1.532474	0.8900366
##	2939	0.004061608	0.0031216723	0.76858039	0.4860771	1.532474	0.8900366
##	2940	0.004354649	0.0032733626	0.75169378	0.4860771	1.532474	0.8900366
##	2941	0.004642285	0.0071141834	1.53247450	0.4860771	1.532474	0.8900366
##	3007	0.003833748	0.0040155784	1.04742888	0.4860771	1.532474	0.8900366
##	3008	0.004062218	0.0031252512	0.76934601	0.4860771	1.532474	0.8900366
##	3009	0.004413529	0.0043130424	0.97723215	0.4860771	1.532474	0.8900366
##	3010	0.004701868	0.0040051873	0.85182895	0.4860771	1.532474	0.8900366
##	3997	0.004260488	0.0041524566	0.97464342	0.4860771	1.532474	0.8900366
##	3998	0.004588550	0.0046204343	1.00694867	0.4860771	1.532474	0.8900366
##	3999	0.004918211	0.0049272584	1.00183957	0.4860771	1.532474	0.8900366
##	4000	0.005242370	0.0051993375	0.99179140	0.4860771	1.532474	0.8900366
##	4066	0.004261174	0.0042403706	0.99511792	0.4860771	1.532474	0.8900366
##	4067	0.004589584	0.0045932089	1.00078981	0.4860771	1.532474	0.8900366
##	4068	0.004920490	0.0050009970	1.01636158	0.4860771	1.532474	0.8900366
##	4069	0.005241573	0.0051097714	0.97485456	0.4860771	1.532474	0.8900366
##	4135	0.004258617	0.0043144517	1.01311099	0.4860771	1.532474	0.8900366
##	4136	0.004591058	0.0046458025	1.01192417	0.4860771	1.532474	0.8900366
##	4137	0.004915533	0.0049748180	1.01206075	0.4860771	1.532474	0.8900366
##	4138	0.005243527	0.0052961070	1.01002761	0.4860771	1.532474	0.8900366
##	768	0.025719000	0.0244229218	0.94960620	0.3809691	1.156423	0.9358679
##	769	0.027714000	0.0246738432	0.89030249	0.3809691	1.156423	0.9358679
##	770	0.029722000	0.0343712159	1.15642339	0.3809691	1.156423	0.9358679
##	771	0.031676000	0.0270835763	0.85501882	0.3809691	1.156423	0.9358679
##	831	0.025719000	0.0244229218	0.94960620	0.3809691	1.156423	0.9358679
##	832	0.027714000	0.0246738432	0.89030249	0.3809691	1.156423	0.9358679
##	833	0.029722000	0.0343712159	1.15642339	0.3809691	1.156423	0.9358679
##	834	0.031676000	0.0270835763	0.85501882	0.3809691	1.156423	0.9358679
##	1948	0.009381640	0.0095018313	1.01281133	0.3809691	1.156423	0.9358679
##	1949	0.010114000	0.0096713695	0.95623586	0.3809691	1.156423	0.9358679
##	1950	0.010847000	0.0106764013	0.98427227	0.3809691	1.156423	0.9358679
##	1951	0.011598000	0.0113843587	0.98157947	0.3809691	1.156423	0.9358679
##	2017	0.009381640	0.0095018313	1.01281133	0.3809691	1.156423	0.9358679
##	2018	0.010114000	0.0096713695	0.95623586	0.3809691	1.156423	0.9358679
##	2019	0.010847000	0.0106764013	0.98427227	0.3809691	1.156423	0.9358679
##	2020	0.011598000	0.0113843587	0.98157947	0.3809691	1.156423	0.9358679
##	3076	0.008361062	0.0045271896	0.54146107	0.3809691	1.156423	0.9358679
##	3077	0.009003179	0.0100740115	1.11893938	0.3809691	1.156423	0.9358679
##	3078	0.009645392	0.0036745962	0.38096908	0.3809691	1.156423	0.9358679
##	3079	0.010283000	0.0104357632	1.01485589	0.3809691	1.156423	0.9358679
##	3145	0.008361062	0.0045271896	0.54146107	0.3809691	1.156423	0.9358679
##	3146	0.009003179	0.0100740115	1.11893938	0.3809691	1.156423	0.9358679
##	3147	0.009645392	0.0036745962	0.38096908	0.3809691	1.156423	0.9358679
##	3148	0.010283000	0.0104357632	1.01485589	0.3809691	1.156423	0.9358679
##	4204	0.008215333	0.0088113690	1.07255166	0.3809691	1.156423	0.9358679
##	4205	0.008833019	0.0090647537	1.02623505	0.3809691	1.156423	0.9358679
##	4206	0.009430421	0.0084655965	0.89769020	0.3809691	1.156423	0.9358679
##	4207	0.010050000	0.0114060866	1.13493399	0.3809691	1.156423	0.9358679
##	4273	0.008215333	0.0088113690	1.07255166	0.3809691	1.156423	0.9358679
##	4274	0.008833019	0.0090647537	1.02623505	0.3809691	1.156423	0.9358679
##	4275	0.009430421	0.0084655965	0.89769020	0.3809691	1.156423	0.9358679
##	4276	0.010050000	0.0114060866	1.13493399	0.3809691	1.156423	0.9358679
##		AccMedian	AccSD	mse	mae	mape	
##	9	1.0238099	0.10221234	4.170031e-02	1.434356e-01	0.8520526	

357

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```
## 4068 0.9171200 0.16992659 3.386810e-06 1.040888e-03 0.9944216
## 4069 0.9171200 0.16992659 3.386810e-06 1.040888e-03 0.9944216
## 4135 0.9171200 0.16992659 3.386810e-06 1.040888e-03 0.9944216
## 4136 0.9171200 0.16992659 3.386810e-06 1.040888e-03 0.9944216
## 4137 0.9171200 0.16992659 3.386810e-06 1.040888e-03 0.9944216
## 4138 0.9171200 0.16992659 3.386810e-06 1.040888e-03 0.9944216
## 768 0.9829259 0.20310035 6.788179e-06 1.793868e-03 0.9855879
## 769 0.9829259 0.20310035 6.788179e-06 1.793868e-03 0.9855879
## 770 0.9829259 0.20310035 6.788179e-06 1.793868e-03 0.9855879
## 771 0.9829259 0.20310035 6.788179e-06 1.793868e-03 0.9855879
## 831 0.9829259 0.20310035 6.788179e-06 1.793868e-03 0.9855879
## 832 0.9829259 0.20310035 6.788179e-06 1.793868e-03 0.9855879
## 833 0.9829259 0.20310035 6.788179e-06 1.793868e-03 0.9855879
## 834 0.9829259 0.20310035 6.788179e-06 1.793868e-03 0.9855879
## 1948 0.9829259 0.20310035 6.788179e-06 1.793868e-03 0.9855879
## 1949 0.9829259 0.20310035 6.788179e-06 1.793868e-03 0.9855879
## 1950 0.9829259 0.20310035 6.788179e-06 1.793868e-03 0.9855879
## 1951 0.9829259 0.20310035 6.788179e-06 1.793868e-03 0.9855879
## 2017 0.9829259 0.20310035 6.788179e-06 1.793868e-03 0.9855879
## 2018 0.9829259 0.20310035 6.788179e-06 1.793868e-03 0.9855879
## 2019 0.9829259 0.20310035 6.788179e-06 1.793868e-03 0.9855879
## 2020 0.9829259 0.20310035 6.788179e-06 1.793868e-03 0.9855879
## 3076 0.9829259 0.20310035 6.788179e-06 1.793868e-03 0.9855879
## 3077 0.9829259 0.20310035 6.788179e-06 1.793868e-03 0.9855879
## 3078 0.9829259 0.20310035 6.788179e-06 1.793868e-03 0.9855879
## 3079 0.9829259 0.20310035 6.788179e-06 1.793868e-03 0.9855879
## 3145 0.9829259 0.20310035 6.788179e-06 1.793868e-03 0.9855879
## 3146 0.9829259 0.20310035 6.788179e-06 1.793868e-03 0.9855879
## 3147 0.9829259 0.20310035 6.788179e-06 1.793868e-03 0.9855879
## 3148 0.9829259 0.20310035 6.788179e-06 1.793868e-03 0.9855879
## 4204 0.9829259 0.20310035 6.788179e-06 1.793868e-03 0.9855879
## 4205 0.9829259 0.20310035 6.788179e-06 1.793868e-03 0.9855879
## 4206 0.9829259 0.20310035 6.788179e-06 1.793868e-03 0.9855879
## 4207 0.9829259 0.20310035 6.788179e-06 1.793868e-03 0.9855879
## 4273 0.9829259 0.20310035 6.788179e-06 1.793868e-03 0.9855879
## 4274 0.9829259 0.20310035 6.788179e-06 1.793868e-03 0.9855879
## 4275 0.9829259 0.20310035 6.788179e-06 1.793868e-03 0.9855879
## 4276 0.9829259 0.20310035 6.788179e-06 1.793868e-03 0.9855879
```

```
colnames(result) <-c("Gpus", "Apps", "InputSize", "ThreadBlock", "Measured", "Predicted", "accuracy",
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_shared",
"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)) +
  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(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

```

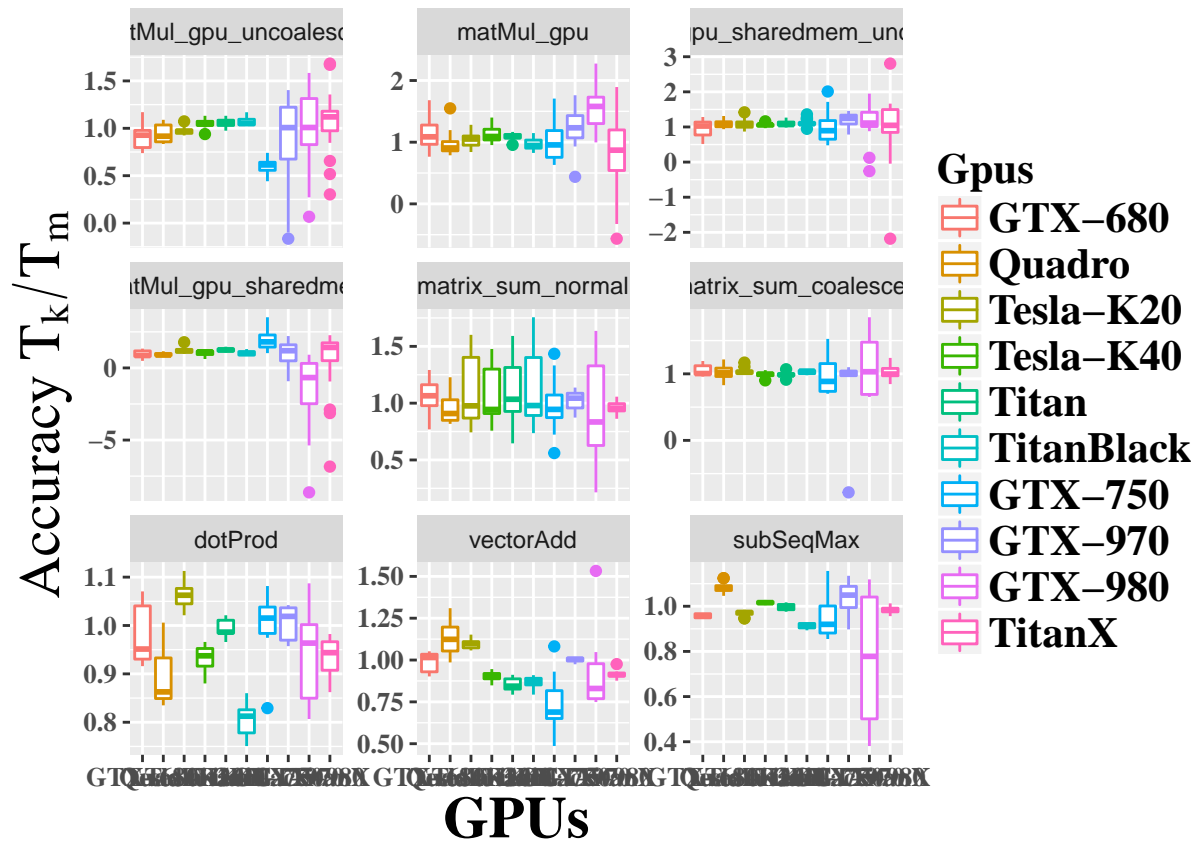
## Warning: The shape palette can deal with a maximum of 6 discrete values
## because more than 6 becomes difficult to discriminate; you have
## 10. Consider specifying shapes manually if you must have them.

```

```

## 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/ResultLinearRegression.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/ResultLinearRegression.png",sep=""), Graph, 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.
```

```
# pp<-predict(fit, int="p", newdata=testSet)  
# pc<-predict(fit, int="c", newdata=testSet)  
# with(testSet, plot(Input.Size, Duration,  
#                    ylim=range(Duration, pp, na.rm=T),  
#                    xlab="Blood glucose", ylab="Short Velocity",  
#                    main="Plot with Confidence and Prediction Bands"))  
# matlines(Size, pc, lty=c(1,2,2), col="black")  
# matlines(Size, pp, lty=c(1,3,3), col="black")
```