

# timesStatistic.R

*marcos*

*Tue Nov 4 21:36:11 2014*

```
##### Statistics of the times measured #####

setwd("/home/marcos/Dropbox/Doctorate/Results/Version3/")
gpu <- dir()[file.info(dir())$isdir]

for(i in gpu) {
  files <- list.files(paste("./", i, sep=""), pattern=".txt")

  for(j in files) {
    temp <- as.matrix(read.table(paste("./", i, "/", j, sep=""), sep="\t", header=F, fill = TRUE))

    for(k in 1:length(temp[,1])) {
      print(paste("GeForce ", i, ", App ", j , ", Size No: ", k, sep=""))
      GPUTime <- temp[k,1:10]
      print(summary(GPUTime))
      print(try(t.test(GPUTime, alternative = "two.sided", conf.level = 0.95)))
    }
  }
}
```

```
## [1] "GeForce gt-630, App matMul-Gm-SP.txt, Size No: 1"
##   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##  0.2575  0.2580  0.2582  0.2583  0.2587  0.2591
##
##   One Sample t-test
##
## data:  GPUTime
## t = 1622.873, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
##  0.2579312 0.2586512
## sample estimates:
## mean of x
## 0.2582912
##
## [1] "GeForce gt-630, App matMul-Gm-SP.txt, Size No: 2"
##   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##  2.467  2.471  2.472  2.472  2.474  2.478
##
##   One Sample t-test
##
## data:  GPUTime
## t = 2499.905, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
##  2.469850 2.474324
## sample estimates:
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## mean of x
## 2.472087
##
## [1] "GeForce gt-630, App matMul-Gm-SP.txt, Size No: 3"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##    19.60  19.61   19.62   19.62   19.63   19.65
##
## One Sample t-test
##
## data: GPUTime
## t = 3651.365, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
##  19.61081 19.63512
## sample estimates:
## mean of x
##  19.62297
##
## [1] "GeForce gt-630, App matMul-Gm-SP.txt, Size No: 4"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##    165.9  165.9   166.0   166.0   166.1   166.1
##
## One Sample t-test
##
## data: GPUTime
## t = 6231.104, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
##  165.9204 166.0409
## sample estimates:
## mean of x
##  165.9807
##
## [1] "GeForce gt-630, App matMul-Gm-SP.txt, Size No: 5"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##    1310   1320   1320   1318   1320   1320
##
## One Sample t-test
##
## data: GPUTime
## t = 988.5, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
##  1314.984 1321.016
## sample estimates:
## mean of x
##    1318
##
## [1] "GeForce gt-630, App matMul-Gm-SP.txt, Size No: 6"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##    10500  10500   10550   10550   10600   10600
##
## One Sample t-test
##

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## data: GPUTime
## t = 633, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 10512.3 10587.7
## sample estimates:
## mean of x
## 10550
##
## [1] "GeForce gt-630, App matMul-Gm-SP.txt, Size No: 7"
## Min. 1st Qu. Median Mean 3rd Qu. Max.
## 85800 85800 85800 85800 85800 85800
## [1] "Error in t.test.default(GPUTime, alternative = \"two.sided\", conf.level = 0.95) : \n data are
## attr(\"class\")
## [1] "try-error"
## attr(\"condition\")
## <simpleError in t.test.default(GPUTime, alternative = \"two.sided\", conf.level = 0.95): data are essen
## [1] "GeForce gt-630, App matMul-Gm-Un-SP.txt, Size No: 1"
## Min. 1st Qu. Median Mean 3rd Qu. Max.
## 1.032 1.037 1.038 1.038 1.038 1.045
##
## One Sample t-test
##
## data: GPUTime
## t = 998.4896, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 1.035661 1.040364
## sample estimates:
## mean of x
## 1.038012
##
## [1] "GeForce gt-630, App matMul-Gm-Un-SP.txt, Size No: 2"
## Min. 1st Qu. Median Mean 3rd Qu. Max.
## 9.869 10.030 10.170 10.200 10.420 10.460
##
## One Sample t-test
##
## data: GPUTime
## t = 149.3142, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 10.04547 10.35454
## sample estimates:
## mean of x
## 10.2
##
## [1] "GeForce gt-630, App matMul-Gm-Un-SP.txt, Size No: 3"
## Min. 1st Qu. Median Mean 3rd Qu. Max.
## 99.67 100.30 100.40 100.40 100.60 100.60
##
## One Sample t-test
##
## data: GPUTime

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## t = 1136.79, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 100.1669 100.5663
## sample estimates:
## mean of x
## 100.3666
##
## [1] "GeForce gt-630, App matMul-Gm-Un-SP.txt, Size No: 4"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##      900.3  902.2   903.0   903.9   906.2   907.9
##
##      One Sample t-test
##
## data:  GPUTime
## t = 1104.39, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 902.0084 905.7112
## sample estimates:
## mean of x
## 903.8598
##
## [1] "GeForce gt-630, App matMul-Gm-Un-SP.txt, Size No: 5"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##      7500   7510   7520   7516   7520   7530
##
##      One Sample t-test
##
## data:  GPUTime
## t = 2211.013, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 7508.31 7523.69
## sample estimates:
## mean of x
##      7516
##
## [1] "GeForce gt-630, App matMul-Gm-Un-SP.txt, Size No: 6"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##      76300  76400   76400   76430   76500   76500
##
##      One Sample t-test
##
## data:  GPUTime
## t = 3580.908, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 76381.72 76478.28
## sample estimates:
## mean of x
##      76430
##
## [1] "GeForce gt-630, App matMul-Gm-Un-SP.txt, Size No: 7"

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##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
## 798000 798200 799000 798700 799000 799000
##
## One Sample t-test
##
## data: GPUTime
## t = 5228.719, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 798354.4 799045.6
## sample estimates:
## mean of x
## 798700
##
## [1] "GeForce gt-630, App matMul-Sm-SP.txt, Size No: 1"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
## 0.1244 0.1244 0.1244 0.1244 0.1244 0.1244
## [1] "Error in t.test.default(GPUTime, alternative = \"two.sided\", conf.level = 0.95) : \n data are
## attr(\"class\")
## [1] "try-error"
## attr(\"condition\")
## <simpleError in t.test.default(GPUTime, alternative = \"two.sided\", conf.level = 0.95): data are essen
## [1] "GeForce gt-630, App matMul-Sm-SP.txt, Size No: 2"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
## 0.9764 0.9764 0.9764 0.9764 0.9764 0.9764
## [1] "Error in t.test.default(GPUTime, alternative = \"two.sided\", conf.level = 0.95) : \n data are
## attr(\"class\")
## [1] "try-error"
## attr(\"condition\")
## <simpleError in t.test.default(GPUTime, alternative = \"two.sided\", conf.level = 0.95): data are essen
## [1] "GeForce gt-630, App matMul-Sm-SP.txt, Size No: 3"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
## 7.663 7.663 7.663 7.663 7.663 7.663
## [1] "Error in t.test.default(GPUTime, alternative = \"two.sided\", conf.level = 0.95) : \n data are
## attr(\"class\")
## [1] "try-error"
## attr(\"condition\")
## <simpleError in t.test.default(GPUTime, alternative = \"two.sided\", conf.level = 0.95): data are essen
## [1] "GeForce gt-630, App matMul-Sm-SP.txt, Size No: 4"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
## 61.36 61.36 61.36 61.36 61.36 61.36
## [1] "Error in t.test.default(GPUTime, alternative = \"two.sided\", conf.level = 0.95) : \n data are
## attr(\"class\")
## [1] "try-error"
## attr(\"condition\")
## <simpleError in t.test.default(GPUTime, alternative = \"two.sided\", conf.level = 0.95): data are essen
## [1] "GeForce gt-630, App matMul-Sm-SP.txt, Size No: 5"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
## 492.5 492.5 492.5 492.5 492.5 492.5
## [1] "Error in t.test.default(GPUTime, alternative = \"two.sided\", conf.level = 0.95) : \n data are
## attr(\"class\")
## [1] "try-error"
## attr(\"condition\")
## <simpleError in t.test.default(GPUTime, alternative = \"two.sided\", conf.level = 0.95): data are essen

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## [1] "GeForce gt-630, App matMul-Sm-SP.txt, Size No: 6"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##      3920   3920   3920   3920   3920   3920
## [1] "Error in t.test.default(GPUTime, alternative = \"two.sided\", conf.level = 0.95) : \n data are
## attr(,\"class\")
## [1] "try-error"
## attr(,\"condition\")
## <simpleError in t.test.default(GPUTime, alternative = \"two.sided\", conf.level = 0.95): data are essen
## [1] "GeForce gt-630, App matMul-Sm-SP.txt, Size No: 7"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##      32600  32600  32600  32600  32600  32600
## [1] "Error in t.test.default(GPUTime, alternative = \"two.sided\", conf.level = 0.95) : \n data are
## attr(,\"class\")
## [1] "try-error"
## attr(,\"condition\")
## <simpleError in t.test.default(GPUTime, alternative = \"two.sided\", conf.level = 0.95): data are essen
## [1] "GeForce gt-630, App matMul-Sm-Un-SP.txt, Size No: 1"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##      0.5387  0.5392  0.5397  0.5396  0.5400  0.5404
##
## One Sample t-test
##
## data:  GPUTime
## t = 3190.157, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
##  0.5392100 0.5399752
## sample estimates:
## mean of x
## 0.5395926
##
## [1] "GeForce gt-630, App matMul-Sm-Un-SP.txt, Size No: 2"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##      4.288   4.288   4.290   4.290   4.291   4.292
##
## One Sample t-test
##
## data:  GPUTime
## t = 8972.243, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
##  4.288696 4.290859
## sample estimates:
## mean of x
## 4.289777
##
## [1] "GeForce gt-630, App matMul-Sm-Un-SP.txt, Size No: 3"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##      34.33   34.33   34.33   34.33   34.34   34.34
##
## One Sample t-test
##
## data:  GPUTime
## t = 24474.78, df = 9, p-value < 2.2e-16

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## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 34.32909 34.33543
## sample estimates:
## mean of x
## 34.33226
##
## [1] "GeForce gt-630, App matMul-Sm-Un-SP.txt, Size No: 4"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##      274.6   274.6   274.6   274.6   274.7   274.7
##
## One Sample t-test
##
## data: GPUTime
## t = 70855.79, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 274.6397 274.6572
## sample estimates:
## mean of x
## 274.6484
##
## [1] "GeForce gt-630, App matMul-Sm-Un-SP.txt, Size No: 5"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##      2190   2190   2190   2190   2190   2190
## [1] "Error in t.test.default(GPUTime, alternative = \"two.sided\", conf.level = 0.95) : \n data are
## attr(\"class\")
## [1] \"try-error\"
## attr(\"condition\")
## <simpleError in t.test.default(GPUTime, alternative = \"two.sided\", conf.level = 0.95): data are essen
## [1] "GeForce gt-630, App matMul-Sm-Un-SP.txt, Size No: 6"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##      17600  17600  17600  17600  17600  17600
## [1] "Error in t.test.default(GPUTime, alternative = \"two.sided\", conf.level = 0.95) : \n data are
## attr(\"class\")
## [1] \"try-error\"
## attr(\"condition\")
## <simpleError in t.test.default(GPUTime, alternative = \"two.sided\", conf.level = 0.95): data are essen
## [1] "GeForce gt-630, App matMul-Sm-Un-SP.txt, Size No: 7"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##      144000 144000 144000 144000 144000 144000
## [1] "Error in t.test.default(GPUTime, alternative = \"two.sided\", conf.level = 0.95) : \n data are
## attr(\"class\")
## [1] \"try-error\"
## attr(\"condition\")
## <simpleError in t.test.default(GPUTime, alternative = \"two.sided\", conf.level = 0.95): data are essen
## [1] "GeForce gt-630, App SubSeqMax.txt, Size No: 1"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##      0.5283 0.5289 0.5293 0.5297 0.5301 0.5318
##
## One Sample t-test
##
## data: GPUTime
## t = 1476.637, df = 9, p-value < 2.2e-16

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## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 0.5288408 0.5304636
## sample estimates:
## mean of x
## 0.5296522
##
## [1] "GeForce gt-630, App SubSeqMax.txt, Size No: 2"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
## 0.9281 0.9309 0.9314 0.9315 0.9326 0.9347
##
## One Sample t-test
##
## data: GPUTime
## t = 1657.93, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 0.9302749 0.9328169
## sample estimates:
## mean of x
## 0.9315459
##
## [1] "GeForce gt-630, App SubSeqMax.txt, Size No: 3"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
## 1.736 1.737 1.738 1.738 1.741 1.742
##
## One Sample t-test
##
## data: GPUTime
## t = 2538.884, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 1.736874 1.739972
## sample estimates:
## mean of x
## 1.738423
##
## [1] "GeForce gt-630, App SubSeqMax.txt, Size No: 4"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
## 3.348 3.349 3.350 3.351 3.353 3.354
##
## One Sample t-test
##
## data: GPUTime
## t = 4996.551, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 3.349130 3.352164
## sample estimates:
## mean of x
## 3.350647
##
## [1] "GeForce gt-630, App SubSeqMax.txt, Size No: 5"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.

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## 6.568 6.572 6.575 6.575 6.578 6.585
##
## One Sample t-test
##
## data: GPUTime
## t = 3966.637, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 6.571507 6.579007
## sample estimates:
## mean of x
## 6.575257
##
## [1] "GeForce gt-630, App SubSeqMax.txt, Size No: 6"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##      13.05  13.05   13.06   13.06   13.06   13.06
##
## One Sample t-test
##
## data: GPUTime
## t = 9108.295, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 13.05432 13.06081
## sample estimates:
## mean of x
## 13.05757
##
## [1] "GeForce gt-630, App SubSeqMax.txt, Size No: 7"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##      25.95  25.95   25.96   25.96   25.97   25.97
##
## One Sample t-test
##
## data: GPUTime
## t = 8716.685, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 25.95345 25.96693
## sample estimates:
## mean of x
## 25.96019
##
## [1] "GeForce gt-630, App SubSeqMax.txt, Size No: 8"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##      51.77  51.78   51.78   51.78   51.78   51.80
##
## One Sample t-test
##
## data: GPUTime
## t = 19031.89, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 51.77436 51.78667

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```

## sample estimates:
## mean of x
## 51.78051
##
## [1] "GeForce gt-630, App SubSeqMax.txt, Size No: 9"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##      103.5   103.5   103.5   103.5   103.5   103.5
##
##      One Sample t-test
##
## data:  GPUTime
## t = 31248.33, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
##  103.5178 103.5328
## sample estimates:
## mean of x
##  103.5253
##
## [1] "GeForce gt-630, App SubSeqMax.txt, Size No: 10"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##      206.9   206.9   206.9   206.9   206.9   206.9
##
##      One Sample t-test
##
## data:  GPUTime
## t = 61172.36, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
##  206.9002 206.9155
## sample estimates:
## mean of x
##  206.9078
##
## [1] "GeForce gt-630, App SubSeqMax.txt, Size No: 11"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##      413.7   413.7   413.7   413.7   413.7   413.7
##
##      One Sample t-test
##
## data:  GPUTime
## t = 408539.3, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
##  413.6885 413.6931
## sample estimates:
## mean of x
##  413.6908
##
## [1] "GeForce gt-630, App SubSeqMax.txt, Size No: 12"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##      827.2   827.2   827.2   827.2   827.2   827.2
##
##      One Sample t-test

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```

##
## data: GPUTime
## t = 415859.8, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 827.1988 827.2078
## sample estimates:
## mean of x
## 827.2033
##
## [1] "GeForce gtx-660, App matMul-Gm-SP.txt, Size No: 1"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
## 0.09488 0.09565 0.09904 0.10040 0.10330 0.11350
##
## One Sample t-test
##
## data: GPUTime
## t = 53.6923, df = 9, p-value = 1.356e-12
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 0.09617302 0.10463338
## sample estimates:
## mean of x
## 0.1004032
##
## [1] "GeForce gtx-660, App matMul-Gm-SP.txt, Size No: 2"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
## 0.7781 0.7873 0.7979 0.7959 0.8000 0.8171
##
## One Sample t-test
##
## data: GPUTime
## t = 217.1613, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 0.7876258 0.8042078
## sample estimates:
## mean of x
## 0.7959168
##
## [1] "GeForce gtx-660, App matMul-Gm-SP.txt, Size No: 3"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
## 6.125 6.135 6.141 6.145 6.147 6.178
##
## One Sample t-test
##
## data: GPUTime
## t = 1052.23, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 6.131720 6.158142
## sample estimates:
## mean of x
## 6.144931

```

```

##
## [1] "GeForce gtx-660, App matMul-Gm-SP.txt, Size No: 4"
##   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##   49.06  49.07   49.09   49.11   49.12   49.20
##
##   One Sample t-test
##
## data:  GPUTime
## t = 3341.716, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
##  49.07226 49.13874
## sample estimates:
## mean of x
##   49.1055
##
## [1] "GeForce gtx-660, App matMul-Gm-SP.txt, Size No: 5"
##   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##   396.7  397.1   397.4   397.3   397.6   397.9
##
##   One Sample t-test
##
## data:  GPUTime
## t = 3125.18, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
##  397.0549 397.6301
## sample estimates:
## mean of x
##  397.3425
##
## [1] "GeForce gtx-660, App matMul-Gm-SP.txt, Size No: 6"
##   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##   3200   3220   3220   3218   3220   3220
##
##   One Sample t-test
##
## data:  GPUTime
## t = 1609, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
##  3213.476 3222.524
## sample estimates:
## mean of x
##    3218
##
## [1] "GeForce gtx-660, App matMul-Gm-SP.txt, Size No: 7"
##   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##   25700  25700   25700   25710   25700   25800
##
##   One Sample t-test
##
## data:  GPUTime
## t = 2571, df = 9, p-value < 2.2e-16

```

```

## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 25687.38 25732.62
## sample estimates:
## mean of x
## 25710
##
## [1] "GeForce gtx-660, App matMul-Gm-Un-SP.txt, Size No: 1"
## Min. 1st Qu. Median Mean 3rd Qu. Max.
## 0.4330 0.4431 0.4637 0.4553 0.4646 0.4659
##
## One Sample t-test
##
## data: GPUTime
## t = 99.2571, df = 9, p-value = 5.425e-15
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 0.4448944 0.4656464
## sample estimates:
## mean of x
## 0.4552704
##
## [1] "GeForce gtx-660, App matMul-Gm-Un-SP.txt, Size No: 2"
## Min. 1st Qu. Median Mean 3rd Qu. Max.
## 3.414 3.418 3.421 3.426 3.422 3.483
##
## One Sample t-test
##
## data: GPUTime
## t = 535.9627, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 3.411785 3.440708
## sample estimates:
## mean of x
## 3.426246
##
## [1] "GeForce gtx-660, App matMul-Gm-Un-SP.txt, Size No: 3"
## Min. 1st Qu. Median Mean 3rd Qu. Max.
## 26.92 26.93 27.03 27.00 27.04 27.06
##
## One Sample t-test
##
## data: GPUTime
## t = 1491.41, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 26.95434 27.03623
## sample estimates:
## mean of x
## 26.99528
##
## [1] "GeForce gtx-660, App matMul-Gm-Un-SP.txt, Size No: 4"
## Min. 1st Qu. Median Mean 3rd Qu. Max.

```

```

## 215.1 215.2 215.2 215.2 215.2 215.2
##
## One Sample t-test
##
## data: GPUTime
## t = 18859.73, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 215.1703 215.2219
## sample estimates:
## mean of x
## 215.1961
##
## [1] "GeForce gtx-660, App matMul-Gm-Un-SP.txt, Size No: 5"
## Min. 1st Qu. Median Mean 3rd Qu. Max.
## 1720 1720 1720 1720 1720 1720
## [1] "Error in t.test.default(GPUTime, alternative = \"two.sided\", conf.level = 0.95) : \n data are
## attr(\"class\")
## [1] \"try-error\"
## attr(\"condition\")
## <simpleError in t.test.default(GPUTime, alternative = \"two.sided\", conf.level = 0.95): data are essen
## [1] "GeForce gtx-660, App matMul-Gm-Un-SP.txt, Size No: 6"
## Min. 1st Qu. Median Mean 3rd Qu. Max.
## 13800 13800 13800 13800 13800 13800
## [1] "Error in t.test.default(GPUTime, alternative = \"two.sided\", conf.level = 0.95) : \n data are
## attr(\"class\")
## [1] \"try-error\"
## attr(\"condition\")
## <simpleError in t.test.default(GPUTime, alternative = \"two.sided\", conf.level = 0.95): data are essen
## [1] "GeForce gtx-660, App matMul-Gm-Un-SP.txt, Size No: 7"
## Min. 1st Qu. Median Mean 3rd Qu. Max.
## 113000 114000 114000 113900 114000 114000
##
## One Sample t-test
##
## data: GPUTime
## t = 1139, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 113673.8 114126.2
## sample estimates:
## mean of x
## 113900
##
## [1] "GeForce gtx-660, App matMul-Sm-SP.txt, Size No: 1"
## Min. 1st Qu. Median Mean 3rd Qu. Max.
## 0.03245 0.03245 0.03245 0.03245 0.03245 0.03245
## [1] "Error in t.test.default(GPUTime, alternative = \"two.sided\", conf.level = 0.95) : \n data are
## attr(\"class\")
## [1] \"try-error\"
## attr(\"condition\")
## <simpleError in t.test.default(GPUTime, alternative = \"two.sided\", conf.level = 0.95): data are essen
## [1] "GeForce gtx-660, App matMul-Sm-SP.txt, Size No: 2"
## Min. 1st Qu. Median Mean 3rd Qu. Max.

```

```

##      0.24      0.24      0.24      0.24      0.24      0.24
## [1] "Error in t.test.default(GPUTime, alternative = \"two.sided\", conf.level = 0.95) : \n data are
## attr(,\"class\")
## [1] \"try-error\"
## attr(,\"condition\")
## <simpleError in t.test.default(GPUTime, alternative = \"two.sided\", conf.level = 0.95): data are essen
## [1] \"GeForce gtx-660, App matMul-Sm-SP.txt, Size No: 3\"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##      1.876  1.876  1.876  1.876  1.876  1.876
## [1] "Error in t.test.default(GPUTime, alternative = \"two.sided\", conf.level = 0.95) : \n data are
## attr(,\"class\")
## [1] \"try-error\"
## attr(,\"condition\")
## <simpleError in t.test.default(GPUTime, alternative = \"two.sided\", conf.level = 0.95): data are essen
## [1] \"GeForce gtx-660, App matMul-Sm-SP.txt, Size No: 4\"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##      14.89  14.89  14.89  14.89  14.89  14.89
## [1] "Error in t.test.default(GPUTime, alternative = \"two.sided\", conf.level = 0.95) : \n data are
## attr(,\"class\")
## [1] \"try-error\"
## attr(,\"condition\")
## <simpleError in t.test.default(GPUTime, alternative = \"two.sided\", conf.level = 0.95): data are essen
## [1] \"GeForce gtx-660, App matMul-Sm-SP.txt, Size No: 5\"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##      119.9  119.9  119.9  119.9  119.9  119.9
## [1] "Error in t.test.default(GPUTime, alternative = \"two.sided\", conf.level = 0.95) : \n data are
## attr(,\"class\")
## [1] \"try-error\"
## attr(,\"condition\")
## <simpleError in t.test.default(GPUTime, alternative = \"two.sided\", conf.level = 0.95): data are essen
## [1] \"GeForce gtx-660, App matMul-Sm-SP.txt, Size No: 6\"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##      971.5  971.5  971.5  971.5  971.5  971.5
## [1] "Error in t.test.default(GPUTime, alternative = \"two.sided\", conf.level = 0.95) : \n data are
## attr(,\"class\")
## [1] \"try-error\"
## attr(,\"condition\")
## <simpleError in t.test.default(GPUTime, alternative = \"two.sided\", conf.level = 0.95): data are essen
## [1] \"GeForce gtx-660, App matMul-Sm-SP.txt, Size No: 7\"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##      7920   7920   7920   7920   7920   7920
## [1] "Error in t.test.default(GPUTime, alternative = \"two.sided\", conf.level = 0.95) : \n data are
## attr(,\"class\")
## [1] \"try-error\"
## attr(,\"condition\")
## <simpleError in t.test.default(GPUTime, alternative = \"two.sided\", conf.level = 0.95): data are essen
## [1] \"GeForce gtx-660, App matMul-Sm-Un-SP.txt, Size No: 1\"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##      0.1081  0.1091  0.1100  0.1109  0.1112  0.1163
##
## One Sample t-test
##
## data:  GPUTime
## t = 130.4582, df = 9, p-value = 4.642e-16

```

```

## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 0.1089731 0.1128189
## sample estimates:
## mean of x
## 0.110896
##
## [1] "GeForce gtx-660, App matMul-Sm-Un-SP.txt, Size No: 2"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
## 0.8228 0.8258 0.8274 0.8279 0.8285 0.8382
##
## One Sample t-test
##
## data: GPUTime
## t = 625.5934, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 0.8249390 0.8309266
## sample estimates:
## mean of x
## 0.8279328
##
## [1] "GeForce gtx-660, App matMul-Sm-Un-SP.txt, Size No: 3"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
## 6.399 6.416 6.425 6.423 6.432 6.443
##
## One Sample t-test
##
## data: GPUTime
## t = 1401.657, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 6.412776 6.433509
## sample estimates:
## mean of x
## 6.423142
##
## [1] "GeForce gtx-660, App matMul-Sm-Un-SP.txt, Size No: 4"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
## 51.22 51.31 51.36 51.36 51.40 51.51
##
## One Sample t-test
##
## data: GPUTime
## t = 1842.547, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 51.30082 51.42694
## sample estimates:
## mean of x
## 51.36388
##
## [1] "GeForce gtx-660, App matMul-Sm-Un-SP.txt, Size No: 5"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.

```



```

## 415.3 415.5 415.8 415.9 416.2 416.7
##
## One Sample t-test
##
## data: GPUSTime
## t = 2784.894, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 415.5226 416.1983
## sample estimates:
## mean of x
## 415.8605
##
## [1] "GeForce gtx-660, App matMul-Sm-Un-SP.txt, Size No: 6"
## Min. 1st Qu. Median Mean 3rd Qu. Max.
## 3340 3352 3360 3359 3370 3370
##
## One Sample t-test
##
## data: GPUSTime
## t = 887.2304, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 3350.436 3367.564
## sample estimates:
## mean of x
## 3359
##
## [1] "GeForce gtx-660, App matMul-Sm-Un-SP.txt, Size No: 7"
## Min. 1st Qu. Median Mean 3rd Qu. Max.
## 26900 27000 27000 26990 27000 27000
##
## One Sample t-test
##
## data: GPUSTime
## t = 2699, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 26967.38 27012.62
## sample estimates:
## mean of x
## 26990
##
## [1] "GeForce gtx-660, App SubSeqMax.txt, Size No: 1"
## Min. 1st Qu. Median Mean 3rd Qu. Max.
## 0.1609 0.1610 0.1611 0.1612 0.1612 0.1616
##
## One Sample t-test
##
## data: GPUSTime
## t = 2315.919, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 0.1610010 0.1613158

```

```

## sample estimates:
## mean of x
## 0.1611584
##
## [1] "GeForce gtx-660, App SubSeqMax.txt, Size No: 2"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
## 0.2883  0.2885  0.2886  0.2887  0.2887  0.2892
##
## One Sample t-test
##
## data: GPUTime
## t = 3013.504, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 0.2884361 0.2888695
## sample estimates:
## mean of x
## 0.2886528
##
## [1] "GeForce gtx-660, App SubSeqMax.txt, Size No: 3"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
## 0.5416  0.5418  0.5427  0.5426  0.5434  0.5439
##
## One Sample t-test
##
## data: GPUTime
## t = 2009.038, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 0.5420354 0.5432574
## sample estimates:
## mean of x
## 0.5426464
##
## [1] "GeForce gtx-660, App SubSeqMax.txt, Size No: 4"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
## 1.046  1.048  1.048  1.049  1.050  1.052
##
## One Sample t-test
##
## data: GPUTime
## t = 1652.072, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 1.047316 1.050188
## sample estimates:
## mean of x
## 1.048752
##
## [1] "GeForce gtx-660, App SubSeqMax.txt, Size No: 5"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
## 2.054  2.054  2.054  2.057  2.056  2.069
##
## One Sample t-test

```

```

##
## data: GPUTime
## t = 1198.219, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 2.053038 2.060805
## sample estimates:
## mean of x
## 2.056922
##
## [1] "GeForce gtx-660, App SubSeqMax.txt, Size No: 6"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##      4.075  4.077   4.078   4.080   4.078   4.099
##
## One Sample t-test
##
## data: GPUTime
## t = 1871.599, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 4.074752 4.084614
## sample estimates:
## mean of x
## 4.079683
##
## [1] "GeForce gtx-660, App SubSeqMax.txt, Size No: 7"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##      8.109  8.113   8.115   8.128   8.151   8.153
##
## One Sample t-test
##
## data: GPUTime
## t = 1282.849, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 8.114015 8.142682
## sample estimates:
## mean of x
## 8.128349
##
## [1] "GeForce gtx-660, App SubSeqMax.txt, Size No: 8"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##      16.31  16.32   16.32   16.33   16.32   16.36
##
## One Sample t-test
##
## data: GPUTime
## t = 3040.873, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 16.31494 16.33923
## sample estimates:
## mean of x
## 16.32708

```

```

##
## [1] "GeForce gtx-660, App SubSeqMax.txt, Size No: 9"
##   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##   32.63  32.65   32.66   32.68   32.67   32.79
##
## One Sample t-test
##
## data:  GPUTime
## t = 1780.022, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
##  32.64042 32.72349
## sample estimates:
## mean of x
##  32.68196
##
## [1] "GeForce gtx-660, App SubSeqMax.txt, Size No: 10"
##   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##   65.34  65.36   65.38   65.43   65.52   65.57
##
## One Sample t-test
##
## data:  GPUTime
## t = 2134.192, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
##  65.35645 65.49515
## sample estimates:
## mean of x
##  65.4258
##
## [1] "GeForce gtx-660, App SubSeqMax.txt, Size No: 11"
##   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##   131.1  131.1   131.1   131.1   131.1   131.1
##
## One Sample t-test
##
## data:  GPUTime
## t = 853478.4, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
##  131.1135 131.1142
## sample estimates:
## mean of x
##  131.1138
##
## [1] "GeForce gtx-660, App SubSeqMax.txt, Size No: 12"
##   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##   262.2  262.2   262.2   262.2   262.2   262.2
##
## One Sample t-test
##
## data:  GPUTime
## t = 611963.9, df = 9, p-value < 2.2e-16

```

```

## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 262.1930 262.1949
## sample estimates:
## mean of x
## 262.194
##
## [1] "GeForce gtx-680, App matMul-Gm-SP.txt, Size No: 1"
## Min. 1st Qu. Median Mean 3rd Qu. Max.
## 0.05834 0.05920 0.05938 0.05966 0.05983 0.06138
##
## One Sample t-test
##
## data: GPUTime
## t = 193.4763, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 0.05895839 0.06035341
## sample estimates:
## mean of x
## 0.0596559
##
## [1] "GeForce gtx-680, App matMul-Gm-SP.txt, Size No: 2"
## Min. 1st Qu. Median Mean 3rd Qu. Max.
## 0.4417 0.4419 0.4480 0.4537 0.4669 0.4716
##
## One Sample t-test
##
## data: GPUTime
## t = 109.7687, df = 9, p-value = 2.194e-15
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 0.4443074 0.4630056
## sample estimates:
## mean of x
## 0.4536565
##
## [1] "GeForce gtx-680, App matMul-Gm-SP.txt, Size No: 3"
## Min. 1st Qu. Median Mean 3rd Qu. Max.
## 3.330 3.334 3.336 3.357 3.343 3.534
##
## One Sample t-test
##
## data: GPUTime
## t = 169.4021, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 3.311764 3.401410
## sample estimates:
## mean of x
## 3.356587
##
## [1] "GeForce gtx-680, App matMul-Gm-SP.txt, Size No: 4"
## Min. 1st Qu. Median Mean 3rd Qu. Max.

```

```

## 26.38 26.40 26.41 26.57 26.42 28.04
##
## One Sample t-test
##
## data: GPUSTime
## t = 162.7148, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 26.19833 26.93705
## sample estimates:
## mean of x
## 26.56769
##
## [1] "GeForce gtx-680, App matMul-Gm-SP.txt, Size No: 5"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##      210.6  210.9   211.0   212.4   211.8   223.5
##
## One Sample t-test
##
## data: GPUSTime
## t = 171.1273, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 209.5946 215.2101
## sample estimates:
## mean of x
## 212.4024
##
## [1] "GeForce gtx-680, App matMul-Gm-SP.txt, Size No: 6"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##      1700   1720   1720   1716   1720   1720
##
## One Sample t-test
##
## data: GPUSTime
## t = 643.5, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 1709.968 1722.032
## sample estimates:
## mean of x
##      1716
##
## [1] "GeForce gtx-680, App matMul-Gm-SP.txt, Size No: 7"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##      13800  13900  13900  13890  13900  13900
##
## One Sample t-test
##
## data: GPUSTime
## t = 1389, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 13867.38 13912.62

```

```

## sample estimates:
## mean of x
##      13890
##
## [1] "GeForce gtx-680, App matMul-Gm-Un-SP.txt, Size No: 1"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##      0.2609  0.2611  0.2615  0.2615  0.2616  0.2622
##
##      One Sample t-test
##
## data:  GPUTime
## t = 1985.382, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
##      0.2611548 0.2617506
## sample estimates:
## mean of x
##      0.2614527
##
## [1] "GeForce gtx-680, App matMul-Gm-Un-SP.txt, Size No: 2"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##      2.054   2.056   2.057   2.057   2.059   2.063
##
##      One Sample t-test
##
## data:  GPUTime
## t = 2663.58, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
##      2.055613 2.059107
## sample estimates:
## mean of x
##      2.05736
##
## [1] "GeForce gtx-680, App matMul-Gm-Un-SP.txt, Size No: 3"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##      16.47   16.49   16.51   16.99   17.74   18.18
##
##      One Sample t-test
##
## data:  GPUTime
## t = 66.7825, df = 9, p-value = 1.911e-13
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
##      16.41816 17.56944
## sample estimates:
## mean of x
##      16.9938
##
## [1] "GeForce gtx-680, App matMul-Gm-Un-SP.txt, Size No: 4"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##      131.1   131.4   131.5   135.4   140.9   145.2
##
##      One Sample t-test

```

```

##
## data: GPUTime
## t = 67.0407, df = 9, p-value = 1.846e-13
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 130.8024 139.9380
## sample estimates:
## mean of x
## 135.3702
##
## [1] "GeForce gtx-680, App matMul-Gm-Un-SP.txt, Size No: 5"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##      1070    1070    1070    1077    1080    1100
##
## One Sample t-test
##
## data: GPUTime
## t = 321.4965, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 1069.422 1084.578
## sample estimates:
## mean of x
##      1077
##
## [1] "GeForce gtx-680, App matMul-Gm-Un-SP.txt, Size No: 6"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##      9290    9322    9355    9344    9360    9390
##
## One Sample t-test
##
## data: GPUTime
## t = 964.9012, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 9322.094 9365.906
## sample estimates:
## mean of x
##      9344
##
## [1] "GeForce gtx-680, App matMul-Gm-Un-SP.txt, Size No: 7"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##      80700    80900    81100    81060    81280    81300
##
## One Sample t-test
##
## data: GPUTime
## t = 1154.081, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 80901.11 81218.89
## sample estimates:
## mean of x
##      81060

```



```

##
## [1] "GeForce gtx-680, App matMul-Sm-SP.txt, Size No: 1"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
## 0.02006 0.02006 0.02006 0.02006 0.02006 0.02006
## [1] "Error in t.test.default(GPUTime, alternative = \"two.sided\", conf.level = 0.95) : \n data are
## attr(\"class\")
## [1] "try-error"
## attr(\"condition\")
## <simpleError in t.test.default(GPUTime, alternative = \"two.sided\", conf.level = 0.95): data are essen
## [1] "GeForce gtx-680, App matMul-Sm-SP.txt, Size No: 2"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
## 0.1451 0.1451 0.1451 0.1451 0.1451 0.1451
## [1] "Error in t.test.default(GPUTime, alternative = \"two.sided\", conf.level = 0.95) : \n data are
## attr(\"class\")
## [1] "try-error"
## attr(\"condition\")
## <simpleError in t.test.default(GPUTime, alternative = \"two.sided\", conf.level = 0.95): data are essen
## [1] "GeForce gtx-680, App matMul-Sm-SP.txt, Size No: 3"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
## 1.151 1.151 1.151 1.151 1.151 1.151
## [1] "Error in t.test.default(GPUTime, alternative = \"two.sided\", conf.level = 0.95) : \n data are
## attr(\"class\")
## [1] "try-error"
## attr(\"condition\")
## <simpleError in t.test.default(GPUTime, alternative = \"two.sided\", conf.level = 0.95): data are essen
## [1] "GeForce gtx-680, App matMul-Sm-SP.txt, Size No: 4"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
## 9.141 9.141 9.141 9.141 9.141 9.141
## [1] "Error in t.test.default(GPUTime, alternative = \"two.sided\", conf.level = 0.95) : \n data are
## attr(\"class\")
## [1] "try-error"
## attr(\"condition\")
## <simpleError in t.test.default(GPUTime, alternative = \"two.sided\", conf.level = 0.95): data are essen
## [1] "GeForce gtx-680, App matMul-Sm-SP.txt, Size No: 5"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
## 72.86 72.86 72.86 72.86 72.86 72.86
## [1] "Error in t.test.default(GPUTime, alternative = \"two.sided\", conf.level = 0.95) : \n data are
## attr(\"class\")
## [1] "try-error"
## attr(\"condition\")
## <simpleError in t.test.default(GPUTime, alternative = \"two.sided\", conf.level = 0.95): data are essen
## [1] "GeForce gtx-680, App matMul-Sm-SP.txt, Size No: 6"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
## 587.2 587.2 587.2 587.2 587.2 587.2
## [1] "Error in t.test.default(GPUTime, alternative = \"two.sided\", conf.level = 0.95) : \n data are
## attr(\"class\")
## [1] "try-error"
## attr(\"condition\")
## <simpleError in t.test.default(GPUTime, alternative = \"two.sided\", conf.level = 0.95): data are essen
## [1] "GeForce gtx-680, App matMul-Sm-SP.txt, Size No: 7"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
## 4780 4780 4780 4780 4780 4780
## [1] "Error in t.test.default(GPUTime, alternative = \"two.sided\", conf.level = 0.95) : \n data are
## attr(\"class\")

```

```

## [1] "try-error"
## attr(,"condition")
## <simpleError in t.test.default(GPUTime, alternative = "two.sided", conf.level = 0.95): data are essen
## [1] "GeForce gtx-680, App matMul-Sm-Un-SP.txt, Size No: 1"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
## 0.06707 0.06756 0.06787 0.06794 0.06846 0.06858
##
##      One Sample t-test
##
## data:  GPUTime
## t = 399.6173, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
##  0.06755968 0.06832892
## sample estimates:
## mean of x
## 0.0679443
##
## [1] "GeForce gtx-680, App matMul-Sm-Un-SP.txt, Size No: 2"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
## 0.5266 0.5289 0.5300 0.5347 0.5413 0.5472
##
##      One Sample t-test
##
## data:  GPUTime
## t = 205.4084, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
##  0.5288353 0.5406131
## sample estimates:
## mean of x
## 0.5347242
##
## [1] "GeForce gtx-680, App matMul-Sm-Un-SP.txt, Size No: 3"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
## 4.072 4.077 4.078 4.094 4.117 4.139
##
##      One Sample t-test
##
## data:  GPUTime
## t = 471.4922, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
##  4.074272 4.113556
## sample estimates:
## mean of x
## 4.093914
##
## [1] "GeForce gtx-680, App matMul-Sm-Un-SP.txt, Size No: 4"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
## 32.49 32.61 32.69 32.75 32.93 33.04
##
##      One Sample t-test
##

```

```

## data: GPUTime
## t = 519.1294, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 32.60516 32.89057
## sample estimates:
## mean of x
## 32.74787
##
## [1] "GeForce gtx-680, App matMul-Sm-Un-SP.txt, Size No: 5"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##      264.9  265.3   265.7   266.0   266.9   267.4
##
## One Sample t-test
##
## data: GPUTime
## t = 894.4603, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 265.3345 266.6800
## sample estimates:
## mean of x
## 266.0072
##
## [1] "GeForce gtx-680, App matMul-Sm-Un-SP.txt, Size No: 6"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##      2130   2150   2150   2150   2150   2160
##
## One Sample t-test
##
## data: GPUTime
## t = 832.6914, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 2144.159 2155.841
## sample estimates:
## mean of x
##      2150
##
## [1] "GeForce gtx-680, App matMul-Sm-Un-SP.txt, Size No: 7"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##      17300  17300   17300   17300   17300   17300
## [1] "Error in t.test.default(GPUTime, alternative = \"two.sided\", conf.level = 0.95) : \n data are
## attr(\"class\")
## [1] \"try-error\"
## attr(\"condition\")
## <simpleError in t.test.default(GPUTime, alternative = \"two.sided\", conf.level = 0.95): data are essen
## [1] "GeForce gtx-680, App SubSeqMax.txt, Size No: 1"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##      0.09351 0.09360 0.09847 0.09844 0.10330 0.10330
##
## One Sample t-test
##
## data: GPUTime

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```

## t = 61.1518, df = 9, p-value = 4.216e-13
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 0.0948025 0.1020859
## sample estimates:
## mean of x
## 0.0984442
##
## [1] "GeForce gtx-680, App SubSeqMax.txt, Size No: 2"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
## 0.1610 0.1612 0.1687 0.1687 0.1761 0.1762
##
## One Sample t-test
##
## data: GPUTime
## t = 68.0183, df = 9, p-value = 1.621e-13
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 0.1630419 0.1742599
## sample estimates:
## mean of x
## 0.1686509
##
## [1] "GeForce gtx-680, App SubSeqMax.txt, Size No: 3"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
## 0.2899 0.2904 0.3036 0.3035 0.3166 0.3170
##
## One Sample t-test
##
## data: GPUTime
## t = 69.0504, df = 9, p-value = 1.416e-13
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 0.2935592 0.3134452
## sample estimates:
## mean of x
## 0.3035022
##
## [1] "GeForce gtx-680, App SubSeqMax.txt, Size No: 4"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
## 0.5401 0.5410 0.5656 0.5652 0.5894 0.5895
##
## One Sample t-test
##
## data: GPUTime
## t = 70.0909, df = 9, p-value = 1.238e-13
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 0.5469323 0.5834139
## sample estimates:
## mean of x
## 0.5651731
##
## [1] "GeForce gtx-680, App SubSeqMax.txt, Size No: 5"

```

```

##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##      1.056  1.057   1.105   1.105   1.153   1.154
##
## One Sample t-test
##
## data:  GPUTime
## t = 68.7703, df = 9, p-value = 1.469e-13
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
##  1.068733 1.141435
## sample estimates:
## mean of x
##  1.105084
##
## [1] "GeForce gtx-680, App SubSeqMax.txt, Size No: 6"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##      2.090  2.090   2.184   2.184   2.278   2.278
##
## One Sample t-test
##
## data:  GPUTime
## t = 69.8222, df = 9, p-value = 1.281e-13
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
##  2.113218 2.254734
## sample estimates:
## mean of x
##  2.183976
##
## [1] "GeForce gtx-680, App SubSeqMax.txt, Size No: 7"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##      4.089  4.090   4.275   4.275   4.460   4.460
##
## One Sample t-test
##
## data:  GPUTime
## t = 69.3153, df = 9, p-value = 1.368e-13
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
##  4.135422 4.414453
## sample estimates:
## mean of x
##  4.274937
##
## [1] "GeForce gtx-680, App SubSeqMax.txt, Size No: 8"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##      8.102  8.106   8.471   8.471   8.836   8.839
##
## One Sample t-test
##
## data:  GPUTime
## t = 69.5254, df = 9, p-value = 1.331e-13
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:

```

```

## 8.195372 8.746616
## sample estimates:
## mean of x
## 8.470994
##
## [1] "GeForce gtx-680, App SubSeqMax.txt, Size No: 9"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##      16.14   16.15   16.89   16.89   17.63   17.64
##
## One Sample t-test
##
## data: GPUTime
## t = 68.1233, df = 9, p-value = 1.599e-13
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
##  16.32876 17.45046
## sample estimates:
## mean of x
##  16.88961
##
## [1] "GeForce gtx-680, App SubSeqMax.txt, Size No: 10"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##      32.24   32.25   33.72   33.72   35.20   35.20
##
## One Sample t-test
##
## data: GPUTime
## t = 68.5193, df = 9, p-value = 1.518e-13
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
##  32.60866 34.83532
## sample estimates:
## mean of x
##  33.72199
##
## [1] "GeForce gtx-680, App SubSeqMax.txt, Size No: 11"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##      64.51   64.53   66.20   67.25   70.50   70.53
##
## One Sample t-test
##
## data: GPUTime
## t = 71.4047, df = 9, p-value = 1.048e-13
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
##  65.11965 69.38073
## sample estimates:
## mean of x
##  67.25019
##
## [1] "GeForce gtx-680, App SubSeqMax.txt, Size No: 12"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##      130.2   130.5   130.5   130.4   130.5   130.5
##

```

```

## One Sample t-test
##
## data: GPUTime
## t = 4281.413, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 130.3582 130.4961
## sample estimates:
## mean of x
## 130.4271
##
## [1] "GeForce gtx-Titan, App matMul-Gm-SP.txt, Size No: 1"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
## 0.04682 0.04922 0.05029 0.04978 0.05089 0.05155
##
## One Sample t-test
##
## data: GPUTime
## t = 98.7998, df = 9, p-value = 5.655e-15
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 0.04863631 0.05091569
## sample estimates:
## mean of x
## 0.049776
##
## [1] "GeForce gtx-Titan, App matMul-Gm-SP.txt, Size No: 2"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
## 0.3420 0.3447 0.3459 0.3483 0.3480 0.3604
##
## One Sample t-test
##
## data: GPUTime
## t = 171.5269, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 0.3437010 0.3528878
## sample estimates:
## mean of x
## 0.3482944
##
## [1] "GeForce gtx-Titan, App matMul-Gm-SP.txt, Size No: 3"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
## 2.597 2.598 2.624 2.619 2.637 2.644
##
## One Sample t-test
##
## data: GPUTime
## t = 417.6139, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 2.605085 2.633462
## sample estimates:
## mean of x

```

```

## 2.619274
##
## [1] "GeForce gtx-Titan, App matMul-Gm-SP.txt, Size No: 4"
##   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##   20.43  20.47   20.48   20.48   20.49   20.52
##
## One Sample t-test
##
## data: GPUTime
## t = 2395.76, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
##  20.45913 20.49780
## sample estimates:
## mean of x
##  20.47846
##
## [1] "GeForce gtx-Titan, App matMul-Gm-SP.txt, Size No: 5"
##   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##   163.2  163.3   163.3   163.3   163.3   163.4
##
## One Sample t-test
##
## data: GPUTime
## t = 8120.683, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
##  163.2691 163.3601
## sample estimates:
## mean of x
##  163.3146
##
## [1] "GeForce gtx-Titan, App matMul-Gm-SP.txt, Size No: 6"
##   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##   1310   1310   1310   1310   1310   1310
## [1] "Error in t.test.default(GPUTime, alternative = \"two.sided\", conf.level = 0.95) : \n data are
## attr(\"class\")
## [1] \"try-error\"
## attr(\"condition\")
## <simpleError in t.test.default(GPUTime, alternative = \"two.sided\", conf.level = 0.95): data are essen
## [1] "GeForce gtx-Titan, App matMul-Gm-SP.txt, Size No: 7"
##   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##   10500  10500  10500  10500  10500  10500
## [1] "Error in t.test.default(GPUTime, alternative = \"two.sided\", conf.level = 0.95) : \n data are
## attr(\"class\")
## [1] \"try-error\"
## attr(\"condition\")
## <simpleError in t.test.default(GPUTime, alternative = \"two.sided\", conf.level = 0.95): data are essen
## [1] "GeForce gtx-Titan, App matMul-Gm-SP.txt, Size No: 8"
##   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##   83900  83900  83900  83900  83900  83900
## [1] "Error in t.test.default(GPUTime, alternative = \"two.sided\", conf.level = 0.95) : \n data are
## attr(\"class\")
## [1] \"try-error\"

```



```

## attr("condition")
## <simpleError in t.test.default(GPUTime, alternative = "two.sided", conf.level = 0.95): data are essen
## [1] "GeForce gtx-Titan, App matMul-Gm-Un-SP.txt, Size No: 1"
##   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
## 0.2140 0.2146 0.2148 0.2148 0.2151 0.2152
##
## One Sample t-test
##
## data:  GPUTime
## t = 1846.229, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 0.2145272 0.2150536
## sample estimates:
## mean of x
## 0.2147904
##
## [1] "GeForce gtx-Titan, App matMul-Gm-Un-SP.txt, Size No: 2"
##   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
## 1.606 1.628 1.685 1.672 1.689 1.776
##
## One Sample t-test
##
## data:  GPUTime
## t = 100.3882, df = 9, p-value = 4.899e-15
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 1.634642 1.710011
## sample estimates:
## mean of x
## 1.672326
##
## [1] "GeForce gtx-Titan, App matMul-Gm-Un-SP.txt, Size No: 3"
##   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
## 12.44 12.58 12.59 12.56 12.60 12.61
##
## One Sample t-test
##
## data:  GPUTime
## t = 608.9207, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 12.51815 12.61150
## sample estimates:
## mean of x
## 12.56482
##
## [1] "GeForce gtx-Titan, App matMul-Gm-Un-SP.txt, Size No: 4"
##   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
## 98.77 98.86 98.88 98.90 98.92 99.05
##
## One Sample t-test
##
## data:  GPUTime

```

```

## t = 3933.853, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
##  98.84142 98.95517
## sample estimates:
## mean of x
##  98.89829
##
## [1] "GeForce gtx-Titan, App matMul-Gm-Un-SP.txt, Size No: 5"
##   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##   791.3  791.4   791.5   791.5   791.6   791.6
##
## One Sample t-test
##
## data: GPUTime
## t = 23225.38, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
##  791.3904 791.5446
## sample estimates:
## mean of x
##  791.4675
##
## [1] "GeForce gtx-Titan, App matMul-Gm-Un-SP.txt, Size No: 6"
##   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##   6330   6330   6330   6332   6330   6340
##
## One Sample t-test
##
## data: GPUTime
## t = 4749, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
##  6328.984 6335.016
## sample estimates:
## mean of x
##    6332
##
## [1] "GeForce gtx-Titan, App matMul-Gm-Un-SP.txt, Size No: 7"
##   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##   51400  51400  51400  51410  51400  51500
##
## One Sample t-test
##
## data: GPUTime
## t = 5141, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
##  51387.38 51432.62
## sample estimates:
## mean of x
##    51410
##
## [1] "GeForce gtx-Titan, App matMul-Gm-Un-SP.txt, Size No: 8"

```

```

##      Min. 1st Qu.  Median      Mean 3rd Qu.      Max.
## 415000 415000 415000 415000 415000 415000
## [1] "Error in t.test.default(GPUTime, alternative = \"two.sided\", conf.level = 0.95) : \n data are
## attr(\"class\")
## [1] "try-error"
## attr(\"condition\")
## <simpleError in t.test.default(GPUTime, alternative = \"two.sided\", conf.level = 0.95): data are essen
## [1] "GeForce gtx-Titan, App matMul-Sm-SP.txt, Size No: 1"
##      Min. 1st Qu.  Median      Mean 3rd Qu.      Max.
## 0.02554 0.02554 0.02554 0.02554 0.02554 0.02554
## [1] "Error in t.test.default(GPUTime, alternative = \"two.sided\", conf.level = 0.95) : \n data are
## attr(\"class\")
## [1] "try-error"
## attr(\"condition\")
## <simpleError in t.test.default(GPUTime, alternative = \"two.sided\", conf.level = 0.95): data are essen
## [1] "GeForce gtx-Titan, App matMul-Sm-SP.txt, Size No: 2"
##      Min. 1st Qu.  Median      Mean 3rd Qu.      Max.
## 0.1481 0.1481 0.1481 0.1481 0.1481 0.1481
## [1] "Error in t.test.default(GPUTime, alternative = \"two.sided\", conf.level = 0.95) : \n data are
## attr(\"class\")
## [1] "try-error"
## attr(\"condition\")
## <simpleError in t.test.default(GPUTime, alternative = \"two.sided\", conf.level = 0.95): data are essen
## [1] "GeForce gtx-Titan, App matMul-Sm-SP.txt, Size No: 3"
##      Min. 1st Qu.  Median      Mean 3rd Qu.      Max.
## 1.089 1.089 1.089 1.089 1.089 1.089
## [1] "Error in t.test.default(GPUTime, alternative = \"two.sided\", conf.level = 0.95) : \n data are
## attr(\"class\")
## [1] "try-error"
## attr(\"condition\")
## <simpleError in t.test.default(GPUTime, alternative = \"two.sided\", conf.level = 0.95): data are essen
## [1] "GeForce gtx-Titan, App matMul-Sm-SP.txt, Size No: 4"
##      Min. 1st Qu.  Median      Mean 3rd Qu.      Max.
## 8.529 8.529 8.529 8.529 8.529 8.529
## [1] "Error in t.test.default(GPUTime, alternative = \"two.sided\", conf.level = 0.95) : \n data are
## attr(\"class\")
## [1] "try-error"
## attr(\"condition\")
## <simpleError in t.test.default(GPUTime, alternative = \"two.sided\", conf.level = 0.95): data are essen
## [1] "GeForce gtx-Titan, App matMul-Sm-SP.txt, Size No: 5"
##      Min. 1st Qu.  Median      Mean 3rd Qu.      Max.
## 67.77 67.77 67.77 67.77 67.77 67.77
## [1] "Error in t.test.default(GPUTime, alternative = \"two.sided\", conf.level = 0.95) : \n data are
## attr(\"class\")
## [1] "try-error"
## attr(\"condition\")
## <simpleError in t.test.default(GPUTime, alternative = \"two.sided\", conf.level = 0.95): data are essen
## [1] "GeForce gtx-Titan, App matMul-Sm-SP.txt, Size No: 6"
##      Min. 1st Qu.  Median      Mean 3rd Qu.      Max.
## 543.1 543.1 543.1 543.1 543.1 543.1
## [1] "Error in t.test.default(GPUTime, alternative = \"two.sided\", conf.level = 0.95) : \n data are
## attr(\"class\")
## [1] "try-error"
## attr(\"condition\")

```

```

## <simpleError in t.test.default(GPUTime, alternative = "two.sided", conf.level = 0.95): data are essen
## [1] "GeForce gtx-Titan, App matMul-Sm-SP.txt, Size No: 7"
##   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##   4330   4330   4330   4330   4330   4330
## [1] "Error in t.test.default(GPUTime, alternative = \"two.sided\", conf.level = 0.95) : \n data are
## attr(,"class")
## [1] "try-error"
## attr(,"condition")
## <simpleError in t.test.default(GPUTime, alternative = "two.sided", conf.level = 0.95): data are essen
## [1] "GeForce gtx-Titan, App matMul-Sm-SP.txt, Size No: 8"
##   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##   34600  34600  34600  34600  34600  34600
## [1] "Error in t.test.default(GPUTime, alternative = \"two.sided\", conf.level = 0.95) : \n data are
## attr(,"class")
## [1] "try-error"
## attr(,"condition")
## <simpleError in t.test.default(GPUTime, alternative = "two.sided", conf.level = 0.95): data are essen
## [1] "GeForce gtx-Titan, App matMul-Sm-Un-SP.txt, Size No: 1"
##   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
## 0.05933 0.05974 0.06083 0.06066 0.06157 0.06176
##
## One Sample t-test
##
## data:  GPUTime
## t = 198.3109, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
##  0.05997042 0.06135438
## sample estimates:
## mean of x
## 0.0606624
##
## [1] "GeForce gtx-Titan, App matMul-Sm-Un-SP.txt, Size No: 2"
##   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##   0.4140   0.4175   0.4182   0.4184   0.4199   0.4217
##
## One Sample t-test
##
## data:  GPUTime
## t = 586.2386, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
##  0.4167791 0.4200081
## sample estimates:
## mean of x
## 0.4183936
##
## [1] "GeForce gtx-Titan, App matMul-Sm-Un-SP.txt, Size No: 3"
##   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##   3.223   3.229   3.268   3.258   3.275   3.309
##
## One Sample t-test
##
## data:  GPUTime

```

```

## t = 350.1937, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 3.236598 3.278685
## sample estimates:
## mean of x
## 3.257642
##
## [1] "GeForce gtx-Titan, App matMul-Sm-Un-SP.txt, Size No: 4"
##   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##   25.22  25.29   25.29   25.29   25.30   25.36
##
## One Sample t-test
##
## data: GPUTime
## t = 2348.588, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 25.26740 25.31612
## sample estimates:
## mean of x
## 25.29176
##
## [1] "GeForce gtx-Titan, App matMul-Sm-Un-SP.txt, Size No: 5"
##   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##   201.2  201.3   201.3   201.3   201.3   201.4
##
## One Sample t-test
##
## data: GPUTime
## t = 13304.76, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 201.2688 201.3373
## sample estimates:
## mean of x
## 201.303
##
## [1] "GeForce gtx-Titan, App matMul-Sm-Un-SP.txt, Size No: 6"
##   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##   1610   1610   1610   1610   1610   1610
## [1] "Error in t.test.default(GPUTime, alternative = \"two.sided\", conf.level = 0.95) : \n data are
## attr(\"class\")
## [1] \"try-error\"
## attr(\"condition\")
## <simpleError in t.test.default(GPUTime, alternative = \"two.sided\", conf.level = 0.95): data are essen
## [1] "GeForce gtx-Titan, App matMul-Sm-Un-SP.txt, Size No: 7"
##   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##  12900  12900  12900  12900  12900  12900
## [1] "Error in t.test.default(GPUTime, alternative = \"two.sided\", conf.level = 0.95) : \n data are
## attr(\"class\")
## [1] \"try-error\"
## attr(\"condition\")
## <simpleError in t.test.default(GPUTime, alternative = \"two.sided\", conf.level = 0.95): data are essen

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```

## [1] "GeForce gtx-Titan, App matMul-Sm-Un-SP.txt, Size No: 8"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
## 103000 103000 103000 103000 103000 103000
## [1] "Error in t.test.default(GPUTime, alternative = \"two.sided\", conf.level = 0.95) : \n data are
## attr(,\"class\")
## [1] "try-error"
## attr(,\"condition\")
## <simpleError in t.test.default(GPUTime, alternative = \"two.sided\", conf.level = 0.95): data are essen
## [1] "GeForce gtx-Titan, App SubSeqMax.txt, Size No: 1"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
## 0.07510 0.07536 0.07547 0.07575 0.07582 0.07786
##
##      One Sample t-test
##
## data:  GPUTime
## t = 301.0296, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
##  0.07517798 0.07631642
## sample estimates:
## mean of x
## 0.0757472
##
## [1] "GeForce gtx-Titan, App SubSeqMax.txt, Size No: 2"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
## 0.1373 0.1377 0.1377 0.1379 0.1382 0.1386
##
##      One Sample t-test
##
## data:  GPUTime
## t = 1003.835, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
##  0.1375677 0.1381891
## sample estimates:
## mean of x
## 0.1378784
##
## [1] "GeForce gtx-Titan, App SubSeqMax.txt, Size No: 3"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
## 0.2598 0.2605 0.2617 0.2616 0.2628 0.2631
##
##      One Sample t-test
##
## data:  GPUTime
## t = 631.9563, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
##  0.2606795 0.2625525
## sample estimates:
## mean of x
## 0.261616
##
## [1] "GeForce gtx-Titan, App SubSeqMax.txt, Size No: 4"

```

```

##      Min. 1st Qu.  Median      Mean 3rd Qu.      Max.
## 0.5035 0.5042 0.5052 0.5050 0.5059 0.5064
##
## One Sample t-test
##
## data: GPUTime
## t = 1549.302, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 0.5042738 0.5057486
## sample estimates:
## mean of x
## 0.5050112
##
## [1] "GeForce gtx-Titan, App SubSeqMax.txt, Size No: 5"
##      Min. 1st Qu.  Median      Mean 3rd Qu.      Max.
## 0.9893 0.9900 0.9904 0.9904 0.9910 0.9917
##
## One Sample t-test
##
## data: GPUTime
## t = 3923.453, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 0.9898641 0.9910063
## sample estimates:
## mean of x
## 0.9904352
##
## [1] "GeForce gtx-Titan, App SubSeqMax.txt, Size No: 6"
##      Min. 1st Qu.  Median      Mean 3rd Qu.      Max.
## 1.960 1.961 1.964 1.963 1.964 1.966
##
## One Sample t-test
##
## data: GPUTime
## t = 3123.931, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 1.961746 1.964590
## sample estimates:
## mean of x
## 1.963168
##
## [1] "GeForce gtx-Titan, App SubSeqMax.txt, Size No: 7"
##      Min. 1st Qu.  Median      Mean 3rd Qu.      Max.
## 3.883 3.893 3.894 3.895 3.897 3.905
##
## One Sample t-test
##
## data: GPUTime
## t = 2008.961, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:

```

```

## 3.890638 3.899410
## sample estimates:
## mean of x
## 3.895024
##
## [1] "GeForce gtx-Titan, App SubSeqMax.txt, Size No: 8"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##      7.783   7.786   7.788   7.790   7.792   7.799
##
## One Sample t-test
##
## data: GPUTime
## t = 4640.201, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
##  7.786087 7.793682
## sample estimates:
## mean of x
##  7.789885
##
## [1] "GeForce gtx-Titan, App SubSeqMax.txt, Size No: 9"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##      15.58   15.59   15.59   15.59   15.60   15.61
##
## One Sample t-test
##
## data: GPUTime
## t = 6105.041, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
##  15.58736 15.59892
## sample estimates:
## mean of x
##  15.59314
##
## [1] "GeForce gtx-Titan, App SubSeqMax.txt, Size No: 10"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##      31.23   31.25   31.25   31.25   31.26   31.26
##
## One Sample t-test
##
## data: GPUTime
## t = 9375.094, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
##  31.24551 31.26059
## sample estimates:
## mean of x
##  31.25305
##
## [1] "GeForce gtx-Titan, App SubSeqMax.txt, Size No: 11"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##      62.87   62.88   62.90   62.90   62.91   62.93
##

```



```

## One Sample t-test
##
## data: GPUTime
## t = 8908.666, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 62.88114 62.91308
## sample estimates:
## mean of x
## 62.89711
##
## [1] "GeForce gtx-Titan, App SubSeqMax.txt, Size No: 12"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##      127.2  127.3   127.3   127.4   127.3   128.3
##
## One Sample t-test
##
## data: GPUTime
## t = 1209.864, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 127.1540 127.6304
## sample estimates:
## mean of x
## 127.3922
##
## [1] "GeForce tesla-K20, App matMul-Gm-SP.txt, Size No: 1"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
## 0.05834 0.05931 0.06040 0.06258 0.06591 0.07024
##
## One Sample t-test
##
## data: GPUTime
## t = 41.945, df = 9, p-value = 1.241e-11
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 0.05920563 0.06595577
## sample estimates:
## mean of x
## 0.0625807
##
## [1] "GeForce tesla-K20, App matMul-Gm-SP.txt, Size No: 2"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
## 0.4399 0.4418 0.4480 0.4514 0.4575 0.4716
##
## One Sample t-test
##
## data: GPUTime
## t = 120.477, df = 9, p-value = 9.498e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 0.4429088 0.4598598
## sample estimates:
## mean of x

```

```

## 0.4513843
##
## [1] "GeForce tesla-K20, App matMul-Gm-SP.txt, Size No: 3"
##   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##   3.293   3.327   3.335   3.347   3.341   3.534
##
##   One Sample t-test
##
## data:  GPUTime
## t = 155.4675, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
##   3.298467 3.395874
## sample estimates:
## mean of x
##   3.34717
##
## [1] "GeForce tesla-K20, App matMul-Gm-SP.txt, Size No: 4"
##   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##   25.98   26.14   26.39   26.45   26.40   28.04
##
##   One Sample t-test
##
## data:  GPUTime
## t = 142.5884, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
##   26.02836 26.86756
## sample estimates:
## mean of x
##   26.44796
##
## [1] "GeForce tesla-K20, App matMul-Gm-SP.txt, Size No: 5"
##   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##   206.8   207.8   210.9   211.1   211.4   223.5
##
##   One Sample t-test
##
## data:  GPUTime
## t = 138.492, df = 9, p-value = 2.712e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
##   207.6324 214.5280
## sample estimates:
## mean of x
##   211.0802
##
## [1] "GeForce tesla-K20, App matMul-Gm-SP.txt, Size No: 6"
##   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##   1650   1662   1720   1697   1720   1720
##
##   One Sample t-test
##
## data:  GPUTime

```

```

## t = 162.5431, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 1673.382 1720.618
## sample estimates:
## mean of x
## 1697
##
## [1] "GeForce tesla-K20, App matMul-Gm-SP.txt, Size No: 7"
## Min. 1st Qu. Median Mean 3rd Qu. Max.
## 13300 13420 13900 13710 13900 13900
##
## One Sample t-test
##
## data: GPUTime
## t = 152.3333, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 13506.41 13913.59
## sample estimates:
## mean of x
## 13710
##
## [1] "GeForce tesla-K20, App matMul-Gm-SP.txt, Size No: 8"
## Min. 1st Qu. Median Mean 3rd Qu. Max. NA's
## 107000 107000 107000 107000 107000 107000 7
## [1] "Error in t.test.default(GPUTime, alternative = \"two.sided\", conf.level = 0.95) : \n data are
## attr(\"class\")
## [1] \"try-error\"
## attr(\"condition\")
## <simpleError in t.test.default(GPUTime, alternative = \"two.sided\", conf.level = 0.95): data are essen
## [1] "GeForce tesla-K20, App matMul-Gm-Un-SP.txt, Size No: 1"
## Min. 1st Qu. Median Mean 3rd Qu. Max.
## 0.2606 0.2608 0.2613 0.2612 0.2616 0.2619
##
## One Sample t-test
##
## data: GPUTime
## t = 1900.877, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 0.2609275 0.2615493
## sample estimates:
## mean of x
## 0.2612384
##
## [1] "GeForce tesla-K20, App matMul-Gm-Un-SP.txt, Size No: 2"
## Min. 1st Qu. Median Mean 3rd Qu. Max.
## 2.055 2.057 2.058 2.104 2.120 2.249
##
## One Sample t-test
##
## data: GPUTime
## t = 83.0066, df = 9, p-value = 2.707e-14

```

```

## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 2.046492 2.161162
## sample estimates:
## mean of x
## 2.103827
##
## [1] "GeForce tesla-K20, App matMul-Gm-Un-SP.txt, Size No: 3"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##      16.27  16.34   16.49   16.77   16.52   18.18
##
## One Sample t-test
##
## data: GPUTime
## t = 71.2575, df = 9, p-value = 1.067e-13
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 16.23314 17.29761
## sample estimates:
## mean of x
## 16.76537
##
## [1] "GeForce tesla-K20, App matMul-Gm-Un-SP.txt, Size No: 4"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##      128.9  129.7   131.3   133.4   131.5   145.2
##
## One Sample t-test
##
## data: GPUTime
## t = 68.3893, df = 9, p-value = 1.544e-13
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 128.9821 137.8068
## sample estimates:
## mean of x
## 133.3944
##
## [1] "GeForce tesla-K20, App matMul-Gm-Un-SP.txt, Size No: 5"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##      1030   1040   1070   1065   1080   1100
##
## One Sample t-test
##
## data: GPUTime
## t = 129.8952, df = 9, p-value = 4.826e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 1046.453 1083.547
## sample estimates:
## mean of x
##      1065
##
## [1] "GeForce tesla-K20, App matMul-Gm-Un-SP.txt, Size No: 6"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.

```

```

##      8260      8538      9325      9023      9358      9390
##
## One Sample t-test
##
## data: GPUTime
## t = 54.858, df = 9, p-value = 1.118e-12
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
##  8650.922 9395.078
## sample estimates:
## mean of x
##      9023
##
## [1] "GeForce tesla-K20, App matMul-Gm-Un-SP.txt, Size No: 7"
##      Min. 1st Qu.  Median      Mean 3rd Qu.      Max.
##    66300   69900   81000   76670   81280   81300
##
## One Sample t-test
##
## data: GPUTime
## t = 33.8689, df = 9, p-value = 8.41e-11
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
##  71549.1 81790.9
## sample estimates:
## mean of x
##      76670
##
## [1] "GeForce tesla-K20, App matMul-Gm-Un-SP.txt, Size No: 8"
##      Min. 1st Qu.  Median      Mean 3rd Qu.      Max.      NA's
##    534000 534000 534000 534000 534000 534000         7
## [1] "Error in t.test.default(GPUTime, alternative = \"two.sided\", conf.level = 0.95) : \n data are
## attr(\"class\")
## [1] \"try-error\"
## attr(\"condition\")
## <simpleError in t.test.default(GPUTime, alternative = \"two.sided\", conf.level = 0.95): data are essen
## [1] "GeForce tesla-K20, App matMul-Sm-SP.txt, Size No: 1"
##      Min. 1st Qu.  Median      Mean 3rd Qu.      Max.
##    0.02006 0.02006 0.02006 0.02006 0.02006 0.02006
## [1] "Error in t.test.default(GPUTime, alternative = \"two.sided\", conf.level = 0.95) : \n data are
## attr(\"class\")
## [1] \"try-error\"
## attr(\"condition\")
## <simpleError in t.test.default(GPUTime, alternative = \"two.sided\", conf.level = 0.95): data are essen
## [1] "GeForce tesla-K20, App matMul-Sm-SP.txt, Size No: 2"
##      Min. 1st Qu.  Median      Mean 3rd Qu.      Max.
##    0.1451 0.1451 0.1451 0.1451 0.1451 0.1451
## [1] "Error in t.test.default(GPUTime, alternative = \"two.sided\", conf.level = 0.95) : \n data are
## attr(\"class\")
## [1] \"try-error\"
## attr(\"condition\")
## <simpleError in t.test.default(GPUTime, alternative = \"two.sided\", conf.level = 0.95): data are essen
## [1] "GeForce tesla-K20, App matMul-Sm-SP.txt, Size No: 3"
##      Min. 1st Qu.  Median      Mean 3rd Qu.      Max.

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## 1.151 1.151 1.151 1.151 1.151 1.151
## [1] "Error in t.test.default(GPUPTime, alternative = \"two.sided\", conf.level = 0.95) : \n data are
## attr(\"class\")
## [1] \"try-error\"
## attr(\"condition\")
## <simpleError in t.test.default(GPUPTime, alternative = \"two.sided\", conf.level = 0.95): data are essen
## [1] \"GeForce tesla-K20, App matMul-Sm-SP.txt, Size No: 4\"
## Min. 1st Qu. Median Mean 3rd Qu. Max.
## 9.141 9.141 9.141 9.141 9.141 9.141
## [1] "Error in t.test.default(GPUPTime, alternative = \"two.sided\", conf.level = 0.95) : \n data are
## attr(\"class\")
## [1] \"try-error\"
## attr(\"condition\")
## <simpleError in t.test.default(GPUPTime, alternative = \"two.sided\", conf.level = 0.95): data are essen
## [1] \"GeForce tesla-K20, App matMul-Sm-SP.txt, Size No: 5\"
## Min. 1st Qu. Median Mean 3rd Qu. Max.
## 72.86 72.86 72.86 72.86 72.86 72.86
## [1] "Error in t.test.default(GPUPTime, alternative = \"two.sided\", conf.level = 0.95) : \n data are
## attr(\"class\")
## [1] \"try-error\"
## attr(\"condition\")
## <simpleError in t.test.default(GPUPTime, alternative = \"two.sided\", conf.level = 0.95): data are essen
## [1] \"GeForce tesla-K20, App matMul-Sm-SP.txt, Size No: 6\"
## Min. 1st Qu. Median Mean 3rd Qu. Max.
## 587.2 587.2 587.2 587.2 587.2 587.2
## [1] "Error in t.test.default(GPUPTime, alternative = \"two.sided\", conf.level = 0.95) : \n data are
## attr(\"class\")
## [1] \"try-error\"
## attr(\"condition\")
## <simpleError in t.test.default(GPUPTime, alternative = \"two.sided\", conf.level = 0.95): data are essen
## [1] \"GeForce tesla-K20, App matMul-Sm-SP.txt, Size No: 7\"
## Min. 1st Qu. Median Mean 3rd Qu. Max.
## 4780 4780 4780 4780 4780 4780
## [1] "Error in t.test.default(GPUPTime, alternative = \"two.sided\", conf.level = 0.95) : \n data are
## attr(\"class\")
## [1] \"try-error\"
## attr(\"condition\")
## <simpleError in t.test.default(GPUPTime, alternative = \"two.sided\", conf.level = 0.95): data are essen
## [1] \"GeForce tesla-K20, App matMul-Sm-Un-SP.txt, Size No: 1\"
## Min. 1st Qu. Median Mean 3rd Qu. Max.
## 0.06707 0.06773 0.06843 0.06917 0.07038 0.07277
##
## One Sample t-test
##
## data: GPUPTime
## t = 108.0921, df = 9, p-value = 2.52e-15
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 0.06772544 0.07062076
## sample estimates:
## mean of x
## 0.0691731
##
## [1] \"GeForce tesla-K20, App matMul-Sm-Un-SP.txt, Size No: 2\"

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##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
## 0.5181 0.5207 0.5281 0.5296 0.5364 0.5472
##
## One Sample t-test
##
## data: GPUTime
## t = 163.866, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 0.5222487 0.5368697
## sample estimates:
## mean of x
## 0.5295592
##
## [1] "GeForce tesla-K20, App matMul-Sm-Un-SP.txt, Size No: 3"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
## 4.074 4.077 4.079 4.090 4.081 4.139
##
## One Sample t-test
##
## data: GPUTime
## t = 527.159, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 4.072098 4.107197
## sample estimates:
## mean of x
## 4.089648
##
## [1] "GeForce tesla-K20, App matMul-Sm-Un-SP.txt, Size No: 4"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
## 32.49 32.61 32.76 32.76 32.85 33.04
##
## One Sample t-test
##
## data: GPUTime
## t = 552.947, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 32.62132 32.88933
## sample estimates:
## mean of x
## 32.75532
##
## [1] "GeForce tesla-K20, App matMul-Sm-Un-SP.txt, Size No: 5"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
## 261.5 262.5 265.4 264.7 266.1 267.4
##
## One Sample t-test
##
## data: GPUTime
## t = 371.3342, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:

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## 263.1097 266.3350
## sample estimates:
## mean of x
## 264.7223
##
## [1] "GeForce tesla-K20, App matMul-Sm-Un-SP.txt, Size No: 6"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##      2090    2100    2150    2131    2150    2160
##
## One Sample t-test
##
## data: GPUTime
## t = 230.5375, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 2110.089 2151.911
## sample estimates:
## mean of x
##      2131
##
## [1] "GeForce tesla-K20, App matMul-Sm-Un-SP.txt, Size No: 7"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##      16700    16920    17300    17140    17300    17300
##
## One Sample t-test
##
## data: GPUTime
## t = 209.225, df = 9, p-value < 2.2e-16
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 16954.68 17325.32
## sample estimates:
## mean of x
##      17140
##
## [1] "GeForce tesla-K20, App matMul-Sm-Un-SP.txt, Size No: 8"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.    NA's
##      134000 134000 134000 134000 134000 134000      7
## [1] "Error in t.test.default(GPUTime, alternative = \"two.sided\", conf.level = 0.95) : \n data are
## attr(\"class\")
## [1] \"try-error\"
## attr(\"condition\")
## <simpleError in t.test.default(GPUTime, alternative = \"two.sided\", conf.level = 0.95): data are essen
## [1] "GeForce tesla-K20, App SubSeqMax.txt, Size No: 1"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##      0.09351 0.09579 0.10220 0.10000 0.10330 0.10330
##
## One Sample t-test
##
## data: GPUTime
## t = 70.4746, df = 9, p-value = 1.179e-13
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 0.09683599 0.10325881

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## sample estimates:
## mean of x
## 0.1000474
##
## [1] "GeForce tesla-K20, App SubSeqMax.txt, Size No: 2"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
## 0.1610 0.1637 0.1712 0.1701 0.1760 0.1762
##
## One Sample t-test
##
## data: GPUTime
## t = 82.1099, df = 9, p-value = 2.985e-14
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 0.1653891 0.1747603
## sample estimates:
## mean of x
## 0.1700747
##
## [1] "GeForce tesla-K20, App SubSeqMax.txt, Size No: 3"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
## 0.2904 0.2972 0.3166 0.3155 0.3334 0.3395
##
## One Sample t-test
##
## data: GPUTime
## t = 50.1732, df = 9, p-value = 2.49e-12
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 0.3013170 0.3297708
## sample estimates:
## mean of x
## 0.3155439
##
## [1] "GeForce tesla-K20, App SubSeqMax.txt, Size No: 4"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
## 0.5401 0.5532 0.5894 0.5961 0.6424 0.6608
##
## One Sample t-test
##
## data: GPUTime
## t = 38.2749, df = 9, p-value = 2.817e-11
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 0.5609092 0.6313768
## sample estimates:
## mean of x
## 0.596143
##
## [1] "GeForce tesla-K20, App SubSeqMax.txt, Size No: 5"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
## 1.056 1.081 1.153 1.165 1.255 1.292
##
## One Sample t-test

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##
## data: GPUTime
## t = 38.3686, df = 9, p-value = 2.756e-11
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 1.096770 1.234201
## sample estimates:
## mean of x
## 1.165485
##
## [1] "GeForce tesla-K20, App SubSeqMax.txt, Size No: 6"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##      2.090   2.137   2.278   2.302   2.477   2.547
##
## One Sample t-test
##
## data: GPUTime
## t = 38.971, df = 9, p-value = 2.397e-11
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 2.167990 2.435192
## sample estimates:
## mean of x
## 2.301591
##
## [1] "GeForce tesla-K20, App SubSeqMax.txt, Size No: 7"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##      4.089   4.183   4.460   4.529   4.906   5.065
##
## One Sample t-test
##
## data: GPUTime
## t = 35.7685, df = 9, p-value = 5.163e-11
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 4.242329 4.815164
## sample estimates:
## mean of x
## 4.528747
##
## [1] "GeForce tesla-K20, App SubSeqMax.txt, Size No: 8"
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##      8.105   8.290   8.836   8.990   9.767  10.080
##
## One Sample t-test
##
## data: GPUTime
## t = 34.7991, df = 9, p-value = 6.601e-11
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
## 8.405783 9.574619
## sample estimates:
## mean of x
## 8.990201

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##
## [1] "GeForce tesla-K20, App SubSeqMax.txt, Size No: 9"
##   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##   16.14   16.52   17.63   17.94   19.50   20.14
##
## One Sample t-test
##
## data:  GPUTime
## t = 34.3848, df = 9, p-value = 7.347e-11
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
##  16.75736 19.11756
## sample estimates:
## mean of x
##  17.93746
##
## [1] "GeForce tesla-K20, App SubSeqMax.txt, Size No: 10"
##   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##   32.24   32.98   35.20   35.83   38.98   40.29
##
## One Sample t-test
##
## data:  GPUTime
## t = 34.1428, df = 9, p-value = 7.826e-11
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
##  33.45863 38.20689
## sample estimates:
## mean of x
##  35.83276
##
## [1] "GeForce tesla-K20, App SubSeqMax.txt, Size No: 11"
##   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##   64.52   65.36   70.49   71.58   78.21   81.08
##
## One Sample t-test
##
## data:  GPUTime
## t = 32.762, df = 9, p-value = 1.132e-10
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
##  66.63373 76.51811
## sample estimates:
## mean of x
##  71.57592
##
## [1] "GeForce tesla-K20, App SubSeqMax.txt, Size No: 12"
##   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##   130.2   130.5   130.5   140.5   155.5   164.0
##
## One Sample t-test
##
## data:  GPUTime
## t = 27.435, df = 9, p-value = 5.508e-10

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```
## alternative hypothesis: true mean is not equal to 0
## 95 percent confidence interval:
##  128.8761 152.0390
## sample estimates:
## mean of x
##  140.4575
```