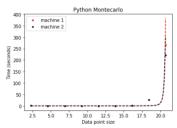
Computação Experimental - 2/2-17

```
In [82]: import numpy as np import pandas as pd import scipy and import scipy scipy
```



```
In [92]:

dataMCRScalaJader = np.genfromtxt('montecarlo-scalalog-jader.txt', delimiter=',')

dataMCRScalaJader[:,0]

yScalaJ = dataMCRScalaJader[:,1]

yScalaH = dataMCRScalaJader[:,0]

xScalaH = dataMCRScalaJadgo[:,0]

xScalaH = dataMCRScalaJadgo[:,0]

resultScalaJ = exp_regression_xy(xScalaJ)

resultScalaH = exp_regression_xy(xScalaJ)

plt.plot(np.log(resultScalaJ[0]), resultScalaJ[1, 'r--')

plt.plot(np.log(resultScalaJ[0]), resultScalaH[1], 'k--')

plt.plot(np.log(xScalaJ), yScalaJ, 'r.', label='machine 1')

plt.plot(np.log(xScalaJ), yScalaH, 'k.', label='machine 2')

plt.title('Scala Montecarlo')

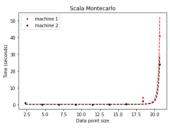
plt.title('Scala Montecarlo')

plt.tlabel('Data point size')

plt.label('Time (seconds)')

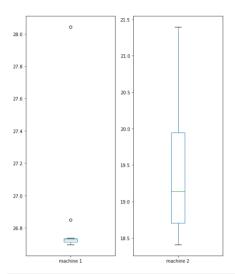
plt.legend()
```

Out[92]: <matplotlib.legend.Legend at 0x11b8579b0>



```
In [165]: dfMcPareadoJader = pd.read_csv('pareado-mc-jader.txt', names=['machine 1', 'scala'])
del dfMcPareadoJader['scala']
dfMcPareadoHugo = pd.read_csv('pareado-mc-hugo.txt', names=['machine 2', 'scala'])
del dfMcPareadoHugo['scala']
dfPython = pd.concat[(dfMcPareadoJader, dfMcPareadoHugo])
dfPython.plot(kind='box', figsize=(8, 10), subplots=True, title='Python Montecarlo')
```

Python Montecarlo



```
In [166]:

dfMcPareadoJader = pd.read_csv('pareado-mc-jader.txt', names=['python', 'machine 1'])

del dfMcPareadoJader['python']

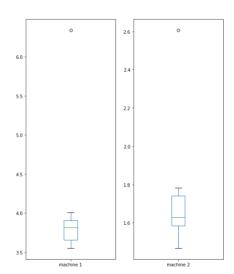
dfMcPareadoHugo = pd.read_csv('pareado-mc-hugo.txt', names=['python', 'machine 2'])

del dfMcPareadoHugo['python']

dfPython = pd.concat([dfMcPareadoJader, dfMcPareadoHugo])

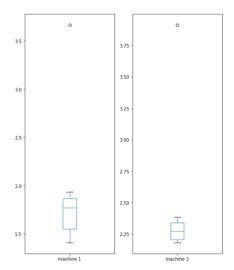
dfPython.plot(kind='box', figsize=(8, 10), subplots=True, title='Scala Montecarlo')
```

Scala Montecarlo



```
In [168]: dfWCPareadoJader = pd.read_csv('pareado-wc-jader.txt', names=['machine 1', 'scala'])
del dfWCPareadoJader['scala']
dfWCPareadoHugo = pd.read_csv('pareado-wc-hugo.txt', names=['machine 2', 'scala'])
del dfWCPareadoHugo' = pd.read_csv('pareado-wc-hugo.txt', names=['machine 2', 'scala'])
del dfWCPareadoHugo' | scala']
dfPython = pd.concat([dfWCPareadoJader, dfWCPareadoHugo])
dfPython.plot(kind='box', figsize=(8, 10), subplots=True, title='Python WordCount')
```

Python WordCount



```
In [169]: dfWCPareadoJader = pd.read_csv('pareado-wc-jader.txt', names=['python', 'machine 1'])
del dfWCPareadoJader('python')
dfWCPareadoHugo = pd.read_csv('pareado-wc-hugo.txt', names=['python', 'machine 2'])
del dfWCPareadoHugo['python']
dfPython = pd.concat([dfWCPareadoJader, dfWCPareadoHugo])
dfPython.plot(kind='box', figsize=(8, 10), subplots=True, title='Scala WordCount')
```

Scala WordCount

