Ph3 Set 3

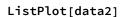
Jacob Snyder

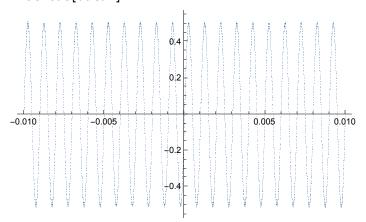
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```
data = Import["~/Downloads/getwfm.isf"]
data2 = Most[data]
```

```
 \left\{ \{-0.01,\,0.028\},\, \{-0.009998,\,0.032\},\, \{-0.009996,\,0.036\},\, \{-0.009994,\,0.04\},\, \{-0.009992,\,0.056\},\, \{-0.009999,\,0.064\},\, \{-0.009988,\,0.064\},\, \{-0.009986,\,0.072\},\, \dots 9985 \dots \right\}, \\ \left\{ \{0.009992,\,0\},\, \{0.009994,\,0.008\},\, \{0.009998,\,-0.012\},\, \{0.009999,\,0\},\, \{0.009992,\,0\},\, \{0.009994,\,0.008\},\, \{0.009996,\,0.02\},\, \{0.009998,\,0.024\} \right\}  large output show less show more show all set size limit...
```

data2 = Table[data[[i]], {i, Length[data] - 1}]





shortdata = Table[data2[[i]], {i, 10}]; TableForm[shortdata]

0.088

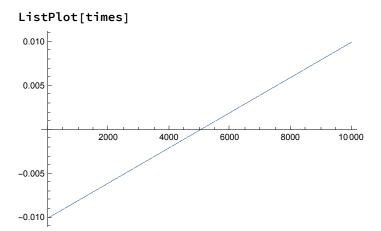
-0.01	0.028
-0.009998	0.032
-0.009996	0.036
-0.009994	0.04
-0.009992	0.056
-0.00999	0.064
-0.009988	0.064
-0.009986	0.072
-0.009984	0.08

-0.009982

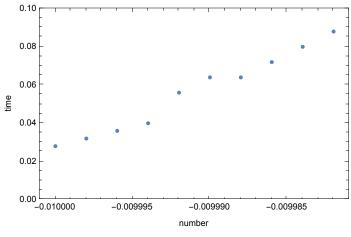
times = Table[data2[[i, 1]], {i, Length[data2]}]

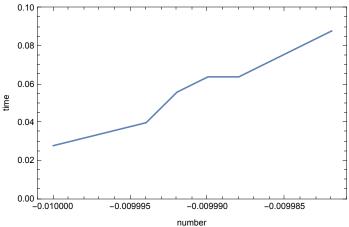
```
{-0.01, -0.009998, -0.009996, -0.009994, -0.009992, -0.00999, -0.009988, -0.009986, -0.009984, -0.009982, -0.00998, -0.009978, -0.009976, -0.009974, -0.009972, -0.009970, 0.009972, 0.009974, 0.009976, 0.009978, 0.00998, 0.009982, 0.009984, 0.009986, 0.009988, 0.00999, 0.009992, 0.009994, 0.009996, 0.009998}

| large output | show less | show more | show all | set size limit... |
```



 $\label{limits} \begin{tabular}{ll} ListPlot[shortdata, PlotRange \rightarrow $\{\{-0.010001, -0.009981\}, \{0, 0.1\}\}$, \\ Frame \rightarrow True, FrameLabel \rightarrow {"number", "time"}]$ \\ ListPlot[shortdata, PlotRange \rightarrow $\{\{-0.010001, -0.009981\}, \{0, 0.1\}\}$, \\ Frame \rightarrow True, FrameLabel \rightarrow {"number", "time"}, Joined \rightarrow True]$ \\ \end{tabular}$

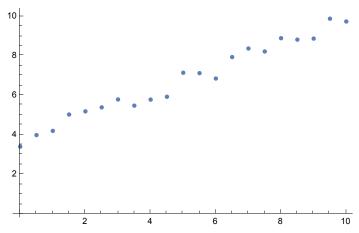




data = Drop@Import["http://pmaweb.caltech.edu/~phy003/labs/Data1.txt", "TSV"]

```
 \{\{X,Y\}, \{0.,3.4039\}, \{0.5,3.9881\}, \{1.,4.2004\}, \{1.5,5.0291\}, \{2.,5.188\}, \\ \{2.5,5.3914\}, \{3.,5.7904\}, \{3.5,5.4771\}, \{4.,5.784\}, \{4.5,5.9271\}, \{5.,7.1422\}, \\ \{5.5,7.1213\}, \{6.,6.8499\}, \{6.5,7.936\}, \{7.,8.3686\}, \{7.5,8.2178\}, \\ \{8.,8.8891\}, \{8.5,8.8176\}, \{9.,8.8702\}, \{9.5,9.8769\}, \{10.,9.7354\} \}
```

ListPlot[data]



Needs["ErrorBarPlots`"]

ErrorListPlot[Table[{data[[i]], ErrorBar[0.3]}, {i, Length[data]}]]

