

Physics 410/609—Computational Physics
Exercise 1—Due Thursday, September 8, 2005

- 1) Prepare a data file with one column of numbers δt . A range $0.01 \leq \delta t \leq 0.5$ would be particularly convenient, but it is not required. Explain how you prepared the file.
- 2) Prepare a second data file with two columns of numbers. This file should contain δt and $0.5\delta t^2$. Show the commands you used to create the second data file.
- 3) Graph your data, preferably using axis, with the x -axis properly labeled using a Greek symbol for δ . You may label the y -axis as error. Put a title on the graph that is your name (first and last).
- 4) Graph the same data, but this time make a log-log plot. This is very easy to do using axis.