

## **Exercise:**

### **Data analysis & Visualization**

The file wave.dat contains some measurement of a frequency signal over time. During the experiment the program to measure the data has been changed, and after that there is an additional column in the data file that is not needed.

1. Use your favourite tool (awk, perl, python) to extract the relevant data from the file. Note: the simpler, the better!
2. Use a plot tool (e.g. gnuplot, or your favourite tool) to plot the "good" data.
  - a) Label the axes with "time/secs" and "Signal/V"
  - b) Give the plot a title
  - c) Create a figure file (PNG, EPS, ...) that can be used in another document
3. Repeat 2), plotting both the defect and the good data sets in one figure.
  - a) - c) Like 2)
  - d) Add a legend box