

## Workload properties

The enclosed files `Data1.txt` to `Data4.txt`, contains the inter-arrival times (one per line) between requests to a Web server.

Determine for each file:

- The first four moments
- The second, third and fourth centered moments
- The third and fourth standardized moments
- Standard Deviation, Coefficient of Variation and Kurtosis
- The 10%, 25%, 50%, 75% and 90% percentiles
- The cross-covariance for lags  $m=1$ ,  $m=2$  and  $m=3$

Then draw the approximated CDF of the corresponding distribution

## ***OPTIONAL\****

The tool used for computing the requested measures might have been built-in functions to compute some of the previous indices. For sample, *Matlab* has *mean(A)*, *var(A)* and *std(A)* to compute respectively average, variance and standard deviation of a vector *A*.

- Find which of the considered measures can be computed with built-in functions
- Compare their results with the formula given during the lessons. Most probably, results will not match, since some of the considered indices have many definitions, each one with their pro and cons. However, the difference in general must not be too big.

\* Optional parts are useful to challenge your understanding of the topic. You are encouraged to do them, but they will not asked during the exam