Fitting distribution

Let us focus on a log file containing service time for jobs of an application server. Using the data provided in the attachments, fit the service time distribution using both the method of moments the maximum likelihood method. As target distribution, use and hyper-exponential with two stages, and determine parameters p_1 , λ_1 and λ_2 .

Before preforming the fitting compute:

- First four moments
- Variance, Standard Deviation and Coefficient of variation
- Skewness
- Kurtosis

Then, after having performed the fitting, prepare then the following pictures:

- A graph comparing the **PDF** approximated from the samples, with the ones of the hyper-exponentials that uses the parameters found with both procedures
- Two **PP plots** comparing the fitted distributions (for both methods) with sampled data
- A **QQ plot**, comparing the distribution of the first half of the samples, with the second half.

Chose the appropriate set of model parameters according to the last digit on the right (the least significant) of your "Codice Persona". This exercise is mandatory and must be presented at the exam!

Sample O		Last digit of "Codice Persona"								Ex. Session			
2 8.3559 7.7602 33.2856 65.1852 0.12880 0.12880 1.0288 0.0028 515.932 677.3308 6.0582 0.55551 2.3811 0.9186 0.55900 0.0040 0.0049 7.0705 0.0505 657.93015 0.7573 197.500 0.91848 0.0 0.0040 0.0	Sample	0	1	2					7	8	9		mon
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