1st set SAS assignments

Basic SAS - some exercises

1.1 Use the datasets abx.txt and aby.txt from the introduction. Read them into SAS and store them in a permanent library.

1.2 Use data steps to add the midquote \((\text{bid} + \text{ask})/2\) and the spread \((\text{ask} - \text{bid})\) in each data set (name them midq_abx and spread_abx and midq_aby and spread_aby). Keep only the newly created variables and the date and time variables in the data sets (use the drop or keep statement in the data step).

1.3 Use proc sql to merge both data sets into a new temporary data set called temp in such a way that only observations with the same timestamp are in the new data set.

1.4 Use proc corr to calculate the correlation between the spreads.

1.5 Use proc means to create a new temporary data set called means that contains the average spreads and midquotes from the data set temp.

2.1 Compute a macro that does the job in 1.2, so that you can replace the code of 1.2 by calling the macro twice and end up with the same datasets.

2.2 Take the data set temp: You want to get the means as in 1.5, but you want to have different output datasets for the values on abx and aby. Write a macro that can be called twice to return these two datasets.