1. Event Studies in SAS

The next assignment is based on chapter 5 in Boehmer/Broussard/Kallunki (2002). The following Tasks prepare the data for the next assignment sheet.

i) Read in the data edata.dat and label the variables as in the 1st SAS assignment.
   Create a dummy variable named before taking the value 1 for all days before the corresponding event (i.e. for date<evntdate).

ii) Sort the data by firm, event date and date. Use Proc Means to compute the number of days before the event date for each firm and each event (name the variable bef_sum and use the sum option in the output statment of Proc Means ). Merge this variable back to the original data and drop the variable before.

iii) Compute a (negative!) counter (name it relday) returning the day relative to the event date (event date should be zero). Use a data step and an if statement:

```sas
by firm evntdate;
if first.evntdate then relday=-bef_sum-1;
relday+1;
```

iv) Split the data set into estimation (returns on 110 trading days before the event) and event periods (returns on the day before the event day and the event day (day 0) . Again use a data step and an if statement.