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Rolling-window regressions

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Rolling-window regressions

Occasional Contributor

07-01-2015 09:02 PM



Posts: 14

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Hello, The question may be confusing. Allow me to explain. I am running a regression Proc reg data= all_compus2 outest=est noprint; ; model2:model log_ME = log_BE In_income_positve dummy_NI_negative leverage /noprint; ; by year group ; run;; I have about 2,000 observations per year (this number changes, depending on the year); I have 50 years of data. So I have about 100,000 = 2,000x50 observations, dividedeach year in 48 groups. I run the regression and keep the parameter estimates and the intercept for each regression. The tricky part is that for each year "T", I have to use observations for the prior 10 years (from "T-10" to "T-1"). For instance, for the year 2000, I have to run a regression with observations from 1990-1999; then for

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07-01-2015 09:02 PM

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year 2001, another regression with observations in years 1991-2000; for 2002 with observations 1992-2001... etc. So I will run 40 of identical regressions (I will miss 10 years of data), one per year, using 10 years of data starting the prior year. I have to do a lop, but I do not know how. Any body has an idea how to do this in a simple way? Thank you for your help,







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Reeza

Posts: 13,554

Re: Rolling-window regressions

Grand Advisor 07-01-2015 10:57 PM

ST.

Can you please clean up how your code is formatted?

Also, do you have a license for SAS/ETS?

Message 2 of 4 (226

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Views)

Thomas_mp

Re: Rolling-window regressions

Occasional Contributor 07-01-2015 11:29 PM

E N

Posts: 14

Hello Reeza, The data consists of apprx 100,000 observations, in rows, each observation is a firm; the variables are firm- accounting characteristics observed annually; the groups identify industries. I have 50 years of data. I need to run about 40 regressions, one regression for each year and group, using observations of the prior 10 years; I keep the estimated coefficients and intercept for each regression to use in other analysis. The proc reg for each regression is Proc reg data= all_compus2 outest=est noprint; model2 :model log_ME = log_BE In_income_positve dummy_NI_negative leverage /noprint; by year group; run;; I am not sure about the SAS/ETS. I will ask tomorrow to technical support Thank you!!

Message 3 of 4 (226 Views)

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Respected Advisor



Posts: 4,265

Re: Rolling-window regressions

07-01-2015 11:48 PM

I would try to replicate the data to create all the required 10-year periods. Something like this:

%let lastYear=2014;

data expanded;

set all_compus2;

do year10 = year to year+9;

if year10 <= &lastYear then output;

end;

run;

proc sort data=expanded; by year10 group year; run;

Proc reg data= expanded outest=est noprint;

model2 :model log_ME = log_BE In_income_positve dummy_NI_negative leverage /noprint;

by year10 group;

run;

PG

PG

Message 4 of 4 (226 Views)

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