

```

data = Macro(25:end,2:end);

er = er_ms(25:end,1);
ms = er_ms(25:end,2);

data=data(:, [1:3,5:8,10:14]);

[Ev,Vals] = eig(cov(data));
[Vals,index] = sort(diag(Vals), 'descend');

Ev = Ev(:,index(1:1));
p_feat = data*Ev;

%First PCA
P1=-(p_feat(:,1)-mean(p_feat(:,1)))/std(p_feat(:,1));
result_1pc=ols(er(2:end),[ones(119,1) ms(1:end-1) P1(1:end-1)]);

result_1pc.beta(2)
result_1pc.tstat(2)

[Ev,Vals] = eig(cov(data{:, :}));
[Vals,index] = sort(diag(Vals), 'descend');
Ev = Ev(:,index(1:3));
p_feat = data*Ev;

%Second PCA
P1=-(p_feat(:,1:3)-mean(p_feat(:,1:3)))/std(p_feat(:,1:3));
result_2pc=ols(er(2:end),[ones(119,1) ms(1:end-1) P1(1:end-1,:)]);

result_2pc.beta(2)
result_2pc.tstat(2)

```