

```

data test;
input sub low mod high;
cards;
1.00      .5122      .2560      .5120
2.00     1.0240      .2880      .7680
3.00      .2560      .0640      .2560
4.00      .7680      .1280      .7680
5.00      .7680      .2560      .5120
6.00      .5120      .0960      .2560
run;

```

```

proc glm;
  Title 'Halpin Repeated Measures Example';
  model low mod high = /nouni;
  repeated arousal profile/summary;
run;

```

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The GLM Procedure

Number of observations 6  
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Dependent Variable	low	mod	high
Level of arousal	1	2	3

Statistic	Value	F Value	Num DF	Den DF	Pr > F
Wilks' Lambda	0.15133090	11.22	2	4	0.0229
Pillai's Trace	0.84866910	11.22	2	4	0.0229
Hotelling-Lawley Trace	5.60803590	11.22	2	4	0.0229
Roy's Greatest Root	5.60803590	11.22	2	4	0.0229

The GLM Procedure  
Repeated Measures Analysis of Variance  
Univariate Tests of Hypotheses for Within Subject Effects

Source	DF	Type III SS	Mean Square	F Value	Pr > F	Adj G - G	Pr > F H - F
arousal	2	0.67227734	0.33613867	20.08	0.0003	0.0009	0.0003
Error(arousal)	10	0.16743682	0.01674368				

Greenhouse-Geisser Epsilon 0.8338  
Huynh-Feldt Epsilon 1.2011  
Halpin Repeated Measures Example

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15:04 Sunday, September 16, 2001

Repeated Measures Analysis of Variance  
Analysis of Variance of Contrast Variables

Contrast Variable: arousal\_1

Source	DF	Type III SS	Mean Square	F Value	Pr > F
Mean	1	1.26243414	1.26243414	27.86	0.0032
Error	5	0.22656430	0.04531286		

Contrast Variable: arousal\_2

Source	DF	Type III SS	Mean Square	F Value	Pr > F
Mean	1	0.65604267	0.65604267	18.48	0.0077
Error	5	0.17749333	0.03549867		