

Mplus Output for Path Analysis (excerpts)

Mplus VERSION 5
MUTHEN & MUTHEN
01/24/2008 12:46 PM

INPUT INSTRUCTIONS

```
title: Data from social exchanges pretest;

data: file=path1.dat; format=free;
      listwise=on;

variable: names = sex hostile negaff;
          missing = sex-negaff (-99);

! analysis: type=basic;

analysis: type=general; estimator=ml; matrix=covariance;

model: hostile on sex;
       negaff on hostile;

Model indirect: negaff ind sex;

output: stdyx ;
```

INPUT READING TERMINATED NORMALLY

Data from social exchanges pretest;

SUMMARY OF ANALYSIS

Number of groups	1
Number of observations	271
Number of dependent variables	2
Number of independent variables	1
Number of continuous latent variables	0

Observed dependent variables

Continuous
HOSTILE NEGAFF

Observed independent variables

SEX

Estimator	ML
Information matrix	OBSERVED
Maximum number of iterations	1000
Convergence criterion	0.500D-04
Maximum number of steepest descent iterations	20

Input data file(s)
path1.dat

Input data format FREE

THE MODEL ESTIMATION TERMINATED NORMALLY

MODEL RESULTS

	Estimate	S.E.	Est./S.E.	Two-Tailed P-Value
HOSTILE ON SEX	0.006	0.078	0.077	0.938
NEGAFF ON HOSTILE	0.344	0.067	5.109	0.000
Intercepts				
HOSTILE	0.578	0.059	9.879	0.000
NEGAFF	1.532	0.058	26.412	0.000
Residual Variances				
HOSTILE	0.405	0.035	11.640	0.000
NEGAFF	0.497	0.043	11.640	0.000

STANDARDIZED MODEL RESULTS

STDYX Standardization

	Estimate	S.E.	Est./S.E.	Two-Tailed P-Value
HOSTILE ON SEX	0.005	0.061	0.077	0.938
NEGAFF ON HOSTILE	0.296	0.055	5.349	0.000
Intercepts				
HOSTILE	0.909	0.100	9.078	0.000
NEGAFF	2.077	0.134	15.510	0.000
Residual Variances				
HOSTILE	1.000	0.001	1752.497	0.000
NEGAFF	0.912	0.033	27.769	0.000

R-SQUARE

Observed Variable	Estimate	S.E.	Est./S.E.	Two-Tailed P-Value
HOSTILE	0.000	0.001	0.039	0.969
NEGAFF	0.088	0.033	2.675	0.007

TOTAL, TOTAL INDIRECT, SPECIFIC INDIRECT, AND DIRECT EFFECTS

	Estimate	S.E.	Est./S.E.	Two-Tailed P-Value
Effects from SEX to NEGAFF				
Total	0.002	0.027	0.077	0.938
Total indirect	0.002	0.027	0.077	0.938
Specific indirect				
NEGAFF HOSTILE SEX	0.002	0.027	0.077	0.938

STANDARDIZED TOTAL, TOTAL INDIRECT, SPECIFIC INDIRECT, AND DIRECT EFFECTS

Output for Amos (excerpts)

C:\Jason\amos\path1.amw

Analysis Summary

Date and Time

Date: Thursday, January 24, 2008

Time: 12:30:53 PM

Title

path1: Thursday, January 24, 2008 12:30 PM

Groups

Group number 1 (Group number 1)

Notes for Group (Group number 1)

The model is recursive.

Sample size = 275

Variable Summary (Group number 1)

Your model contains the following variables (Group number 1)

Observed, endogenous variables

hostile

negaff

Observed, exogenous variables

sex

Unobserved, exogenous variables

e2

e1

Variable counts (Group number 1)

Number of variables in your model: 5

Number of observed variables: 3

Number of unobserved variables: 2

Number of exogenous variables: 3

Number of endogenous variables: 2

Parameter summary (Group number 1)

Weights Covariances Variances Means Intercepts Total

Fixed 2 0 0 0 0 2

Labeled 0 0 0 0 0 0

Unlabeled 2 0 3 1 2 8

Total 4 0 3 1 2 10

Models

Default model (Default model)

Notes for Model (Default model)

Computation of degrees of freedom (Default model)

Number of distinct sample moments: 9

Number of distinct parameters to be estimated: 8

Degrees of freedom (9 - 8): 1

Scalar Estimates (Group number 1 - Default model)

Maximum Likelihood Estimates

Regression Weights: (Group number 1 - Default model)

Estimate S.E. C.R. P Label

hostile <--- sex -.006 .078 -.072 .943

negaff <--- hostile .354 .067 5.285 ***

Variances: (Group number 1 - Default model)

Estimate S.E. C.R. P Label

sex .246 .021 11.683 ***

e1 .409 .035 11.705 ***

e2 .497 .043 11.641 ***