

Mplus VERSION 7.31
MUTHEN & MUTHEN
11/01/2018 10:18 AM

INPUT INSTRUCTIONS

TITLE: Relationship between fluid intelligence (block pattern) and digital game use;

DATA: File is GamePlayData.dat;

VARIABLE: Names are RespID W1_SEXK W1_AgeY
W1DEGAME W1BLOCK W1INFO
W2DEGAME W2BLOCK W2INFO
W3DEGAME W3BLOCK W3INFO
W4DEGAME W4BLOCK W4INFO
RW1DEGAME RW2DEGAME RW3DEGAME RW4DEGAME;

USEVARIABLES ARE W1DEGAME W2DEGAME W3DEGAME W4DEGAME W1BLOCK W2BLOCK
W3BLOCK W4BLOCK;
MISSING ARE ALL(999);

ANALYSIS:
ESTIMATOR = MLR;

MODEL:

cW1DEGAME BY W1DEGAME;
cW2DEGAME BY W2DEGAME;
cW3DEGAME BY W3DEGAME;
cW4DEGAME BY W4DEGAME;
cW1BLOCK BY W1BLOCK;
cW2BLOCK BY W2BLOCK;
cW3BLOCK BY W3BLOCK;
cW4BLOCK BY W4BLOCK;

W1DEGAME-W4BLOCK@0;

cW2DEGAME cW2BLOCK ON cW1DEGAME cW1BLOCK;
cW3DEGAME cW3BLOCK ON cW2DEGAME cW2BLOCK;
cW4DEGAME cW4BLOCK ON cW3DEGAME cW3BLOCK;

cW1DEGAME WITH cW1BLOCK;

cW2DEGAME WITH cW2BLOCK;
cW3DEGAME WITH cW3BLOCK;

cW4DEGAME WITH cW4BLOCK;

RI_DEGAME BY W1DEGAME-W4DEGAME@1;

RI_BLOCK BY W1BLOCK-W4BLOCK@1;

RI_DEGAME RI_BLOCK WITH cW1DEGAME@0 cW1BLOCK@0;

OUTPUT: Tech1 STANDARDIZED (STDYX);

OUTPUT

Relationship between fluid intelligence (block pattern) and digital game use;

SUMMARY OF ANALYSIS

| | |
|---------------------------------------|-----|
| Number of groups | 1 |
| Number of observations | 934 |
| Number of dependent variables | 8 |
| Number of independent variables | 0 |
| Number of continuous latent variables | 10 |

Observed dependent variables

Continuous

W1DEGAME W2DEGAME W3DEGAME W4DEGAME W1BLOCK W2BLOCK
W3BLOCK W4BLOCK

Continuous latent variables

CW1DEGAM CW2DEGAM CW3DEGAM CW4DEGAM CW1BLOCK CW2BLOCK
CW3BLOCK CW4BLOCK RI_DEGAM RI_BLOCK

| | |
|---|-----------|
| Estimator | MLR |
| Information matrix | OBSERVED |
| Maximum number of iterations | 1000 |
| Convergence criterion | 0.500D-04 |
| Maximum number of steepest descent iterations | 20 |
| Maximum number of iterations for H1 | 2000 |
| Convergence criterion for H1 | 0.100D-03 |

Input data file(s)

GamePlayData.dat

Input data format FREE

SUMMARY OF DATA

| | |
|---------------------------------|----|
| Number of missing data patterns | 25 |
|---------------------------------|----|

COVARIANCE COVERAGE OF DATA

Minimum covariance coverage value 0.100

PROPORTION OF DATA PRESENT

Covariance Coverage

| | W1DEGAME | W2DEGAME | W3DEGAME | W4DEGAME | W1BLOCK |
|----------|----------|----------|----------|----------|---------|
| W1DEGAME | 1.000 | | | | |
| W2DEGAME | 0.953 | 0.953 | | | |
| W3DEGAME | 0.901 | 0.901 | 0.901 | | |
| W4DEGAME | 0.889 | 0.889 | 0.889 | 0.889 | |
| W1BLOCK | 0.915 | 0.872 | 0.825 | 0.813 | 0.915 |
| W2BLOCK | 0.874 | 0.873 | 0.824 | 0.815 | 0.798 |
| W3BLOCK | 0.798 | 0.798 | 0.792 | 0.779 | 0.728 |
| W4BLOCK | 0.782 | 0.782 | 0.782 | 0.782 | 0.718 |

Covariance Coverage

| | W2BLOCK | W3BLOCK | W4BLOCK |
|---------|---------|---------|---------|
| W2BLOCK | 0.874 | | |
| W3BLOCK | 0.730 | 0.798 | |
| W4BLOCK | 0.717 | 0.695 | 0.782 |

THE MODEL ESTIMATION TERMINATED NORMALLY

MODEL FIT INFORMATION

Number of Free Parameters 35

Loglikelihood

H0 Value -16412.290
H0 Scaling Correction Factor 2.7571
for MLR
H1 Value -16400.569
H1 Scaling Correction Factor 2.4705
for MLR

Information Criteria

Akaike (AIC) 32894.580
Bayesian (BIC) 33063.962
Sample-Size Adjusted BIC 32952.805
($n^* = (n + 2) / 24$)

Chi-Square Test of Model Fit

| | |
|--------------------------------------|---------|
| Value | 17.284* |
| Degrees of Freedom | 9 |
| P-Value | 0.0444 |
| Scaling Correction Factor for MLR | 1.3563 |

* The chi-square value for MLM, MLMV, MLR, ULSMV, WLSM and WLSMV cannot be used for chi-square difference testing in the regular way. MLM, MLR and WLSM chi-square difference testing is described on the Mplus website. MLMV, WLSMV, and ULSMV difference testing is done using the DIFFTEST option.

RMSEA (Root Mean Square Error Of Approximation)

| | |
|--------------------------|-------------|
| Estimate | 0.031 |
| 90 Percent C.I. | 0.005 0.054 |
| Probability RMSEA <= .05 | 0.911 |

CFI/TLI

| | |
|-----|-------|
| CFI | 0.992 |
| TLI | 0.974 |

Chi-Square Test of Model Fit for the Baseline Model

| | |
|--------------------|----------|
| Value | 1030.096 |
| Degrees of Freedom | 28 |
| P-Value | 0.0000 |

SRMR (Standardized Root Mean Square Residual)

| | |
|-------|-------|
| Value | 0.024 |
|-------|-------|

MODEL RESULTS

| | Estimate | S.E. | Two-Tailed Est./S.E. | P-Value |
|-------------|----------|-------|-------------------------|---------|
| CW1DEGAM BY | | | | |
| W1DEGAME | 1.000 | 0.000 | 999.000 | 999.000 |
| CW2DEGAM BY | | | | |
| W2DEGAME | 1.000 | 0.000 | 999.000 | 999.000 |
| CW3DEGAM BY | | | | |
| W3DEGAME | 1.000 | 0.000 | 999.000 | 999.000 |
| CW4DEGAM BY | | | | |
| W4DEGAME | 1.000 | 0.000 | 999.000 | 999.000 |
| CW1BLOCK BY | | | | |
| W1BLOCK | 1.000 | 0.000 | 999.000 | 999.000 |
| CW2BLOCK BY | | | | |
| W2BLOCK | 1.000 | 0.000 | 999.000 | 999.000 |
| CW3BLOCK BY | | | | |
| W3BLOCK | 1.000 | 0.000 | 999.000 | 999.000 |
| CW4BLOCK BY | | | | |
| W4BLOCK | 1.000 | 0.000 | 999.000 | 999.000 |
| RI_DEGAM BY | | | | |
| W1DEGAME | 1.000 | 0.000 | 999.000 | 999.000 |
| W2DEGAME | 1.000 | 0.000 | 999.000 | 999.000 |
| W3DEGAME | 1.000 | 0.000 | 999.000 | 999.000 |
| W4DEGAME | 1.000 | 0.000 | 999.000 | 999.000 |
| RI_BLOCK BY | | | | |
| W1BLOCK | 1.000 | 0.000 | 999.000 | 999.000 |
| W2BLOCK | 1.000 | 0.000 | 999.000 | 999.000 |
| W3BLOCK | 1.000 | 0.000 | 999.000 | 999.000 |
| W4BLOCK | 1.000 | 0.000 | 999.000 | 999.000 |
| CW2DEGAM ON | | | | |
| CW1DEGAME | -0.435 | 0.304 | -1.430 | 0.153 |
| CW1BLOCK | -0.063 | 0.082 | -0.771 | 0.441 |

| | | | | |
|---------------|--------|-------|---------|---------|
| CW2BLOCK ON | | | | |
| CW1DEGAME | -0.023 | 0.084 | -0.274 | 0.784 |
| CW1BLOCK | -0.151 | 0.077 | -1.961 | 0.050 |
| CW3DEGAM ON | | | | |
| CW2DEGAME | 0.273 | 0.164 | 1.670 | 0.095 |
| CW2BLOCK | 0.060 | 0.075 | 0.806 | 0.420 |
| CW3BLOCK ON | | | | |
| CW2DEGAME | 0.162 | 0.082 | 1.974 | 0.048 |
| CW2BLOCK | 0.138 | 0.091 | 1.515 | 0.130 |
| CW4DEGAM ON | | | | |
| CW3DEGAME | 0.512 | 0.075 | 6.817 | 0.000 |
| CW3BLOCK | -0.108 | 0.071 | -1.518 | 0.129 |
| CW4BLOCK ON | | | | |
| CW3DEGAME | 0.053 | 0.030 | 1.784 | 0.074 |
| CW3BLOCK | 0.403 | 0.052 | 7.708 | 0.000 |
| CW1DEGAM WITH | | | | |
| CW1BLOCK | -0.277 | 0.272 | -1.017 | 0.309 |
| CW2DEGAM WITH | | | | |
| CW2BLOCK | -0.329 | 0.387 | -0.850 | 0.395 |
| CW3DEGAM WITH | | | | |
| CW3BLOCK | 0.057 | 0.292 | 0.196 | 0.844 |
| CW4DEGAM WITH | | | | |
| CW4BLOCK | 0.537 | 0.300 | 1.790 | 0.073 |
| RI_DEGAM WITH | | | | |
| CW1DEGAME | 0.000 | 0.000 | 999.000 | 999.000 |
| CW1BLOCK | 0.000 | 0.000 | 999.000 | 999.000 |
| RI_BLOCK WITH | | | | |
| CW1DEGAME | 0.000 | 0.000 | 999.000 | 999.000 |
| CW1BLOCK | 0.000 | 0.000 | 999.000 | 999.000 |
| RI_DEGAME | -0.042 | 0.290 | -0.144 | 0.885 |
| Intercepts | | | | |
| W1DEGAME | 1.962 | 0.108 | 18.184 | 0.000 |
| W2DEGAME | 2.387 | 0.101 | 23.661 | 0.000 |
| W3DEGAME | 3.162 | 0.137 | 23.146 | 0.000 |

| | | | | |
|----------|--------|-------|---------|-------|
| W4DEGAME | 4.185 | 0.167 | 25.068 | 0.000 |
| W1BLOCK | 10.383 | 0.102 | 101.836 | 0.000 |
| W2BLOCK | 10.970 | 0.100 | 109.360 | 0.000 |
| W3BLOCK | 11.179 | 0.108 | 103.212 | 0.000 |
| W4BLOCK | 11.745 | 0.111 | 105.675 | 0.000 |

Variances

| | | | | |
|-----------|-------|-------|--------|-------|
| CW1DEGAME | 4.288 | 2.304 | 1.861 | 0.063 |
| CW1BLOCK | 4.568 | 0.465 | 9.824 | 0.000 |
| RI_DEGAME | 6.779 | 1.064 | 6.374 | 0.000 |
| RI_BLOCK | 4.683 | 0.302 | 15.483 | 0.000 |

Residual Variances

| | | | | |
|-----------|--------|-------|---------|---------|
| W1DEGAME | 0.000 | 0.000 | 999.000 | 999.000 |
| W2DEGAME | 0.000 | 0.000 | 999.000 | 999.000 |
| W3DEGAME | 0.000 | 0.000 | 999.000 | 999.000 |
| W4DEGAME | 0.000 | 0.000 | 999.000 | 999.000 |
| W1BLOCK | 0.000 | 0.000 | 999.000 | 999.000 |
| W2BLOCK | 0.000 | 0.000 | 999.000 | 999.000 |
| W3BLOCK | 0.000 | 0.000 | 999.000 | 999.000 |
| W4BLOCK | 0.000 | 0.000 | 999.000 | 999.000 |
| CW2DEGAME | 1.359 | 1.237 | 1.099 | 0.272 |
| CW3DEGAME | 9.383 | 1.207 | 7.771 | 0.000 |
| CW4DEGAME | 13.494 | 1.582 | 8.530 | 0.000 |
| CW2BLOCK | 3.632 | 0.480 | 7.567 | 0.000 |
| CW3BLOCK | 4.599 | 0.341 | 13.468 | 0.000 |
| CW4BLOCK | 4.490 | 0.316 | 14.224 | 0.000 |

STANDARDIZED MODEL RESULTS

STDYX Standardization

| | Estimate | S.E. | Two-Tailed Est./S.E. | P-Value |
|-------------|----------|-------|-------------------------|---------|
| CW1DEGAM BY | | | | |
| W1DEGAME | 0.622 | 0.111 | 5.616 | 0.000 |
| CW2DEGAM BY | | | | |
| W2DEGAME | 0.493 | 0.082 | 5.982 | 0.000 |
| CW3DEGAM BY | | | | |
| W3DEGAME | 0.765 | 0.027 | 27.946 | 0.000 |
| CW4DEGAM BY | | | | |
| W4DEGAME | 0.838 | 0.022 | 38.493 | 0.000 |
| CW1BLOCK BY | | | | |
| W1BLOCK | 0.703 | 0.024 | 29.767 | 0.000 |
| CW2BLOCK BY | | | | |
| W2BLOCK | 0.666 | 0.028 | 23.522 | 0.000 |
| CW3BLOCK BY | | | | |
| W3BLOCK | 0.708 | 0.019 | 36.550 | 0.000 |
| CW4BLOCK BY | | | | |
| W4BLOCK | 0.728 | 0.018 | 40.088 | 0.000 |
| RI_DEGAM BY | | | | |
| W1DEGAME | 0.783 | 0.088 | 8.880 | 0.000 |
| W2DEGAME | 0.870 | 0.047 | 18.664 | 0.000 |
| W3DEGAME | 0.644 | 0.032 | 19.838 | 0.000 |
| W4DEGAME | 0.545 | 0.033 | 16.281 | 0.000 |
| RI_BLOCK BY | | | | |
| W1BLOCK | 0.711 | 0.023 | 30.516 | 0.000 |
| W2BLOCK | 0.746 | 0.025 | 29.478 | 0.000 |
| W3BLOCK | 0.706 | 0.019 | 36.292 | 0.000 |
| W4BLOCK | 0.685 | 0.019 | 35.498 | 0.000 |

CW2DEGAM ON
CW1DEGAME -0.611 0.340 -1.797 0.072
CW1BLOCK -0.091 0.123 -0.742 0.458

CW2BLOCK ON
CW1DEGAME -0.025 0.086 -0.287 0.774
CW1BLOCK -0.167 0.086 -1.951 0.051

CW3DEGAM ON
CW2DEGAME 0.130 0.091 1.437 0.151
CW2BLOCK 0.038 0.046 0.811 0.417

CW3BLOCK ON
CW2DEGAME 0.110 0.050 2.214 0.027
CW2BLOCK 0.123 0.082 1.498 0.134

CW4DEGAM ON
CW3DEGAME 0.395 0.050 7.828 0.000
CW3BLOCK -0.058 0.037 -1.581 0.114

CW4BLOCK ON
CW3DEGAME 0.071 0.039 1.826 0.068
CW3BLOCK 0.380 0.049 7.821 0.000

CW1DEGAM WITH
CW1BLOCK -0.063 0.070 -0.892 0.372

CW2DEGAM WITH
CW2BLOCK -0.148 0.208 -0.711 0.477

CW3DEGAM WITH
CW3BLOCK 0.009 0.045 0.196 0.845

CW4DEGAM WITH
CW4BLOCK 0.069 0.038 1.822 0.068

RI_DEGAM WITH
CW1DEGAME 0.000 0.000 999.000 999.000
CW1BLOCK 0.000 0.000 999.000 999.000

RI_BLOCK WITH
CW1DEGAME 0.000 0.000 999.000 999.000
CW1BLOCK 0.000 0.000 999.000 999.000
RI_DEGAME -0.007 0.051 -0.144 0.886

Intercepts

| | | | | |
|----------|-------|-------|--------|-------|
| W1DEGAME | 0.590 | 0.046 | 12.897 | 0.000 |
| W2DEGAME | 0.798 | 0.031 | 25.922 | 0.000 |
| W3DEGAME | 0.782 | 0.028 | 28.350 | 0.000 |
| W4DEGAME | 0.876 | 0.030 | 28.862 | 0.000 |
| W1BLOCK | 3.414 | 0.094 | 36.246 | 0.000 |
| W2BLOCK | 3.781 | 0.099 | 38.258 | 0.000 |
| W3BLOCK | 3.646 | 0.089 | 41.074 | 0.000 |
| W4BLOCK | 3.720 | 0.092 | 40.428 | 0.000 |

Variances

| | | | | |
|-----------|-------|-------|---------|---------|
| CW1DEGAME | 1.000 | 0.000 | 999.000 | 999.000 |
| CW1BLOCK | 1.000 | 0.000 | 999.000 | 999.000 |
| RI_DEGAME | 1.000 | 0.000 | 999.000 | 999.000 |
| RI_BLOCK | 1.000 | 0.000 | 999.000 | 999.000 |

Residual Variances

| | | | | |
|-----------|-------|---------|---------|---------|
| W1DEGAME | 0.000 | 999.000 | 999.000 | 999.000 |
| W2DEGAME | 0.000 | 999.000 | 999.000 | 999.000 |
| W3DEGAME | 0.000 | 999.000 | 999.000 | 999.000 |
| W4DEGAME | 0.000 | 999.000 | 999.000 | 999.000 |
| W1BLOCK | 0.000 | 999.000 | 999.000 | 999.000 |
| W2BLOCK | 0.000 | 999.000 | 999.000 | 999.000 |
| W3BLOCK | 0.000 | 999.000 | 999.000 | 999.000 |
| W4BLOCK | 0.000 | 999.000 | 999.000 | 999.000 |
| CW2DEGAME | 0.626 | 0.414 | 1.512 | 0.131 |
| CW3DEGAME | 0.982 | 0.024 | 40.768 | 0.000 |
| CW4DEGAME | 0.842 | 0.040 | 20.998 | 0.000 |
| CW2BLOCK | 0.972 | 0.029 | 33.907 | 0.000 |
| CW3BLOCK | 0.975 | 0.022 | 43.984 | 0.000 |
| CW4BLOCK | 0.849 | 0.037 | 22.845 | 0.000 |

R-SQUARE

| Variable | Observed Estimate | Two-Tailed | | |
|----------|----------------------|------------|-----------|---------|
| | | S.E. | Est./S.E. | P-Value |
| W1DEGAME | 1.000 | 999.000 | 999.000 | 999.000 |
| W2DEGAME | 1.000 | 999.000 | 999.000 | 999.000 |
| W3DEGAME | 1.000 | 999.000 | 999.000 | 999.000 |
| W4DEGAME | 1.000 | 999.000 | 999.000 | 999.000 |
| W1BLOCK | 1.000 | 999.000 | 999.000 | 999.000 |
| W2BLOCK | 1.000 | 999.000 | 999.000 | 999.000 |
| W3BLOCK | 1.000 | 999.000 | 999.000 | 999.000 |
| W4BLOCK | 1.000 | 999.000 | 999.000 | 999.000 |

| Latent Variable | Estimate | S.E. | Two-Tailed Est./S.E. | P-Value |
|-----------------|----------|-------|----------------------|---------|
| CW2DEGAM | 0.374 | 0.414 | 0.905 | 0.366 |
| CW3DEGAM | 0.018 | 0.024 | 0.727 | 0.467 |
| CW4DEGAM | 0.158 | 0.040 | 3.946 | 0.000 |
| CW2BLOCK | 0.028 | 0.029 | 0.980 | 0.327 |
| CW3BLOCK | 0.025 | 0.022 | 1.116 | 0.264 |
| CW4BLOCK | 0.151 | 0.037 | 4.061 | 0.000 |

QUALITY OF NUMERICAL RESULTS

Condition Number for the Information Matrix 0.206E-03
 (ratio of smallest to largest eigenvalue)

TECHNICAL 1 OUTPUT

PARAMETER SPECIFICATION

| NU | | | | | |
|----|----------|----------|----------|----------|---------|
| | W1DEGAME | W2DEGAME | W3DEGAME | W4DEGAME | W1BLOCK |
| 1 | 1 | 2 | 3 | 4 | 5 |

| NU | | | | |
|----|---------|---------|---------|--|
| | W2BLOCK | W3BLOCK | W4BLOCK | |
| 1 | 6 | 7 | 8 | |

| LAMBDA | | | | | |
|----------|----------|----------|----------|----------|----------|
| | CW1DEGAM | CW2DEGAM | CW3DEGAM | CW4DEGAM | CW1BLOCK |
| W1DEGAME | 0 | 0 | 0 | 0 | 0 |
| W2DEGAME | 0 | 0 | 0 | 0 | 0 |
| W3DEGAME | 0 | 0 | 0 | 0 | 0 |
| W4DEGAME | 0 | 0 | 0 | 0 | 0 |
| W1BLOCK | 0 | 0 | 0 | 0 | 0 |
| W2BLOCK | 0 | 0 | 0 | 0 | 0 |
| W3BLOCK | 0 | 0 | 0 | 0 | 0 |
| W4BLOCK | 0 | 0 | 0 | 0 | 0 |

| LAMBDA | | | | | |
|----------|----------|----------|----------|----------|----------|
| | CW2BLOCK | CW3BLOCK | CW4BLOCK | RI_DEGAM | RI_BLOCK |
| W1DEGAME | 0 | 0 | 0 | 0 | 0 |
| W2DEGAME | 0 | 0 | 0 | 0 | 0 |
| W3DEGAME | 0 | 0 | 0 | 0 | 0 |
| W4DEGAME | 0 | 0 | 0 | 0 | 0 |
| W1BLOCK | 0 | 0 | 0 | 0 | 0 |
| W2BLOCK | 0 | 0 | 0 | 0 | 0 |
| W3BLOCK | 0 | 0 | 0 | 0 | 0 |
| W4BLOCK | 0 | 0 | 0 | 0 | 0 |

THETA

| | W1DEGAME | W2DEGAME | W3DEGAME | W4DEGAME | W1BLOCK |
|----------|----------|----------|----------|----------|---------|
| W1DEGAME | 0 | | | | |
| W2DEGAME | 0 | 0 | | | |
| W3DEGAME | 0 | 0 | 0 | | |
| W4DEGAME | 0 | 0 | 0 | 0 | |
| W1BLOCK | 0 | 0 | 0 | 0 | 0 |
| W2BLOCK | 0 | 0 | 0 | 0 | 0 |
| W3BLOCK | 0 | 0 | 0 | 0 | 0 |
| W4BLOCK | 0 | 0 | 0 | 0 | 0 |

THETA

| | W2BLOCK | W3BLOCK | W4BLOCK |
|---------|---------|---------|---------|
| W2BLOCK | 0 | | |
| W3BLOCK | 0 | 0 | |
| W4BLOCK | 0 | 0 | 0 |

ALPHA

| | CW1DEGAM | CW2DEGAM | CW3DEGAM | CW4DEGAM | CW1BLOCK |
|---|----------|----------|----------|----------|----------|
| 1 | 0 | 0 | 0 | 0 | |

ALPHA

| | CW2BLOCK | CW3BLOCK | CW4BLOCK | RI_DEGAM | RI_BLOCK |
|---|----------|----------|----------|----------|----------|
| 1 | 0 | 0 | 0 | 0 | |

BETA

| | CW1DEGAM | CW2DEGAM | CW3DEGAM | CW4DEGAM | CW1BLOCK |
|----------|----------|----------|----------|----------|----------|
| CW1DEGAM | 0 | 0 | 0 | 0 | 0 |
| CW2DEGAM | 9 | 0 | 0 | 0 | 10 |
| CW3DEGAM | 0 | 11 | 0 | 0 | 0 |
| CW4DEGAM | 0 | 0 | 13 | 0 | 0 |
| CW1BLOCK | 0 | 0 | 0 | 0 | 0 |
| CW2BLOCK | 15 | 0 | 0 | 0 | 16 |
| CW3BLOCK | 0 | 17 | 0 | 0 | 0 |
| CW4BLOCK | 0 | 0 | 19 | 0 | 0 |
| RI_DEGAM | 0 | 0 | 0 | 0 | 0 |

RI_BLOCK 0 0 0 0 0

BETA

| | CW2BLOCK | CW3BLOCK | CW4BLOCK | RI_DEGAM | RI_BLOCK |
|----------|----------|----------|----------|----------|----------|
| CW1DEGAM | 0 | 0 | 0 | 0 | 0 |
| CW2DEGAM | 0 | 0 | 0 | 0 | 0 |
| CW3DEGAM | 12 | 0 | 0 | 0 | 0 |
| CW4DEGAM | 0 | 14 | 0 | 0 | 0 |
| CW1BLOCK | 0 | 0 | 0 | 0 | 0 |
| CW2BLOCK | 0 | 0 | 0 | 0 | 0 |
| CW3BLOCK | 18 | 0 | 0 | 0 | 0 |
| CW4BLOCK | 0 | 20 | 0 | 0 | 0 |
| RI_DEGAM | 0 | 0 | 0 | 0 | 0 |
| RI_BLOCK | 0 | 0 | 0 | 0 | 0 |

PSI

| | CW1DEGAM | CW2DEGAM | CW3DEGAM | CW4DEGAM | CW1BLOCK |
|----------|----------|----------|----------|----------|----------|
| CW1DEGAM | 21 | | | | |
| CW2DEGAM | 0 | 22 | | | |
| CW3DEGAM | 0 | 0 | 23 | | |
| CW4DEGAM | 0 | 0 | 0 | 24 | |
| CW1BLOCK | 25 | 0 | 0 | 0 | 26 |
| CW2BLOCK | 0 | 27 | 0 | 0 | 0 |
| CW3BLOCK | 0 | 0 | 29 | 0 | 0 |
| CW4BLOCK | 0 | 0 | 0 | 31 | 0 |
| RI_DEGAM | 0 | 0 | 0 | 0 | 0 |
| RI_BLOCK | 0 | 0 | 0 | 0 | 0 |

PSI

| | CW2BLOCK | CW3BLOCK | CW4BLOCK | RI_DEGAM | RI_BLOCK |
|----------|----------|----------|----------|----------|----------|
| CW2BLOCK | 28 | | | | |
| CW3BLOCK | 0 | 30 | | | |
| CW4BLOCK | 0 | 0 | 32 | | |
| RI_DEGAM | 0 | 0 | 0 | 33 | |
| RI_BLOCK | 0 | 0 | 0 | 34 | 35 |

STARTING VALUES

NU

| | W1DEGAME | W2DEGAME | W3DEGAME | W4DEGAME | W1BLOCK |
|---|----------|----------|----------|----------|---------|
| 1 | 1.962 | 2.376 | 3.115 | 4.152 | 10.422 |

NU

| | W2BLOCK | W3BLOCK | W4BLOCK |
|---|---------|---------|---------|
| 1 | 11.027 | 11.232 | 11.797 |

LAMBDA

| | CW1DEGAM | CW2DEGAM | CW3DEGAM | CW4DEGAM | CW1BLOCK |
|----------|----------|----------|----------|----------|----------|
| W1DEGAME | 1.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| W2DEGAME | 0.000 | 1.000 | 0.000 | 0.000 | 0.000 |
| W3DEGAME | 0.000 | 0.000 | 1.000 | 0.000 | 0.000 |
| W4DEGAME | 0.000 | 0.000 | 0.000 | 1.000 | 0.000 |
| W1BLOCK | 0.000 | 0.000 | 0.000 | 0.000 | 1.000 |
| W2BLOCK | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| W3BLOCK | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| W4BLOCK | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

LAMBDA

| | CW2BLOCK | CW3BLOCK | CW4BLOCK | RI_DEGAM | RI_BLOCK |
|----------|----------|----------|----------|----------|----------|
| W1DEGAME | 0.000 | 0.000 | 0.000 | 1.000 | 0.000 |
| W2DEGAME | 0.000 | 0.000 | 0.000 | 1.000 | 0.000 |
| W3DEGAME | 0.000 | 0.000 | 0.000 | 1.000 | 0.000 |
| W4DEGAME | 0.000 | 0.000 | 0.000 | 1.000 | 0.000 |
| W1BLOCK | 0.000 | 0.000 | 0.000 | 0.000 | 1.000 |
| W2BLOCK | 1.000 | 0.000 | 0.000 | 0.000 | 1.000 |
| W3BLOCK | 0.000 | 1.000 | 0.000 | 0.000 | 1.000 |
| W4BLOCK | 0.000 | 0.000 | 1.000 | 0.000 | 1.000 |

THETA

| | W1DEGAME | W2DEGAME | W3DEGAME | W4DEGAME | W1BLOCK |
|--|----------|----------|----------|----------|---------|
|--|----------|----------|----------|----------|---------|

| | | | | | |
|----------|-------|-------|-------|-------|-------|
| W1DEGAME | 0.000 | | | | |
| W2DEGAME | 0.000 | 0.000 | | | |
| W3DEGAME | 0.000 | 0.000 | 0.000 | | |
| W4DEGAME | 0.000 | 0.000 | 0.000 | 0.000 | |
| W1BLOCK | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| W2BLOCK | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| W3BLOCK | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| W4BLOCK | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

THETA

| | W2BLOCK | W3BLOCK | W4BLOCK |
|---------|---------|---------|---------|
| W2BLOCK | 0.000 | | |
| W3BLOCK | 0.000 | 0.000 | |
| W4BLOCK | 0.000 | 0.000 | 0.000 |

ALPHA

| | CW1DEGAM | CW2DEGAM | CW3DEGAM | CW4DEGAM | CW1BLOCK |
|---|----------|----------|----------|----------|----------|
| 1 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

ALPHA

| | CW2BLOCK | CW3BLOCK | CW4BLOCK | RI_DEGAM | RI_BLOCK |
|---|----------|----------|----------|----------|----------|
| 1 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

BETA

| | CW1DEGAM | CW2DEGAM | CW3DEGAM | CW4DEGAM | CW1BLOCK |
|----------|----------|----------|----------|----------|----------|
| CW1DEGAM | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| CW2DEGAM | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| CW3DEGAM | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| CW4DEGAM | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| CW1BLOCK | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| CW2BLOCK | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| CW3BLOCK | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| CW4BLOCK | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| RI_DEGAM | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| RI_BLOCK | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

BETA

| | CW2BLOCK | CW3BLOCK | CW4BLOCK | RI_DEGAM | RI_BLOCK |
|----------|----------|----------|----------|----------|----------|
| CW1DEGAM | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| CW2DEGAM | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| CW3DEGAM | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| CW4DEGAM | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| CW1BLOCK | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| CW2BLOCK | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| CW3BLOCK | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| CW4BLOCK | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| RI_DEGAM | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| RI_BLOCK | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

PSI

| | CW1DEGAM | CW2DEGAM | CW3DEGAM | CW4DEGAM | CW1BLOCK |
|----------|----------|----------|----------|----------|----------|
| CW1DEGAM | 0.050 | | | | |
| CW2DEGAM | 0.000 | 0.050 | | | |
| CW3DEGAM | 0.000 | 0.000 | 0.050 | | |
| CW4DEGAM | 0.000 | 0.000 | 0.000 | 0.050 | |
| CW1BLOCK | 0.000 | 0.000 | 0.000 | 0.000 | 0.050 |
| CW2BLOCK | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| CW3BLOCK | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| CW4BLOCK | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| RI_DEGAM | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| RI_BLOCK | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

PSI

| | CW2BLOCK | CW3BLOCK | CW4BLOCK | RI_DEGAM | RI_BLOCK |
|----------|----------|----------|----------|----------|----------|
| CW2BLOCK | 0.050 | | | | |
| CW3BLOCK | 0.000 | 0.050 | | | |
| CW4BLOCK | 0.000 | 0.000 | 0.050 | | |
| RI_DEGAM | 0.000 | 0.000 | 0.000 | 0.050 | |
| RI_BLOCK | 0.000 | 0.000 | 0.000 | 0.000 | 0.050 |

Beginning Time: 10:18:50

Ending Time: 10:18:54

Elapsed Time: 00:00:04

MUTHEN & MUTHEN
3463 Stoner Ave.
Los Angeles, CA 90066

Tel: (310) 391-9971
Fax: (310) 391-8971
Web: www.StatModel.com
Support: Support@StatModel.com

Copyright (c) 1998-2015 Muthen & Muthen