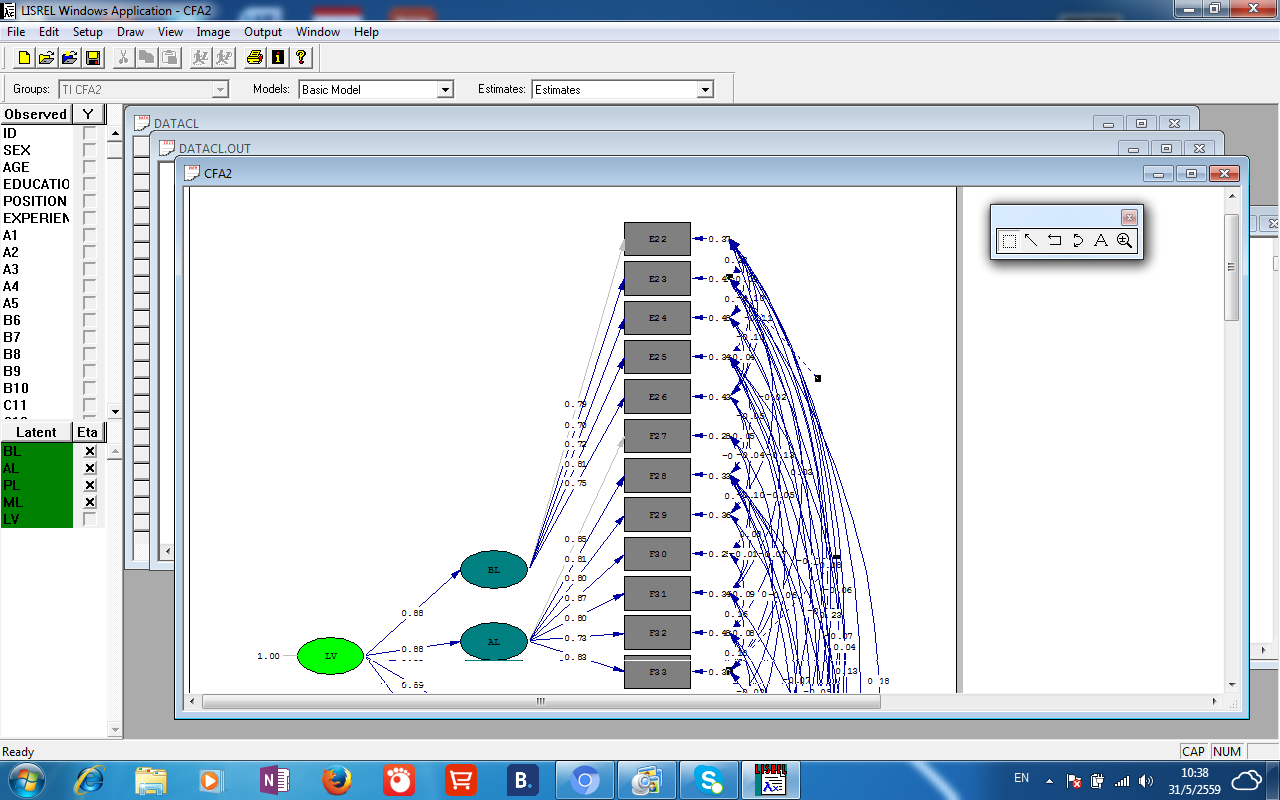
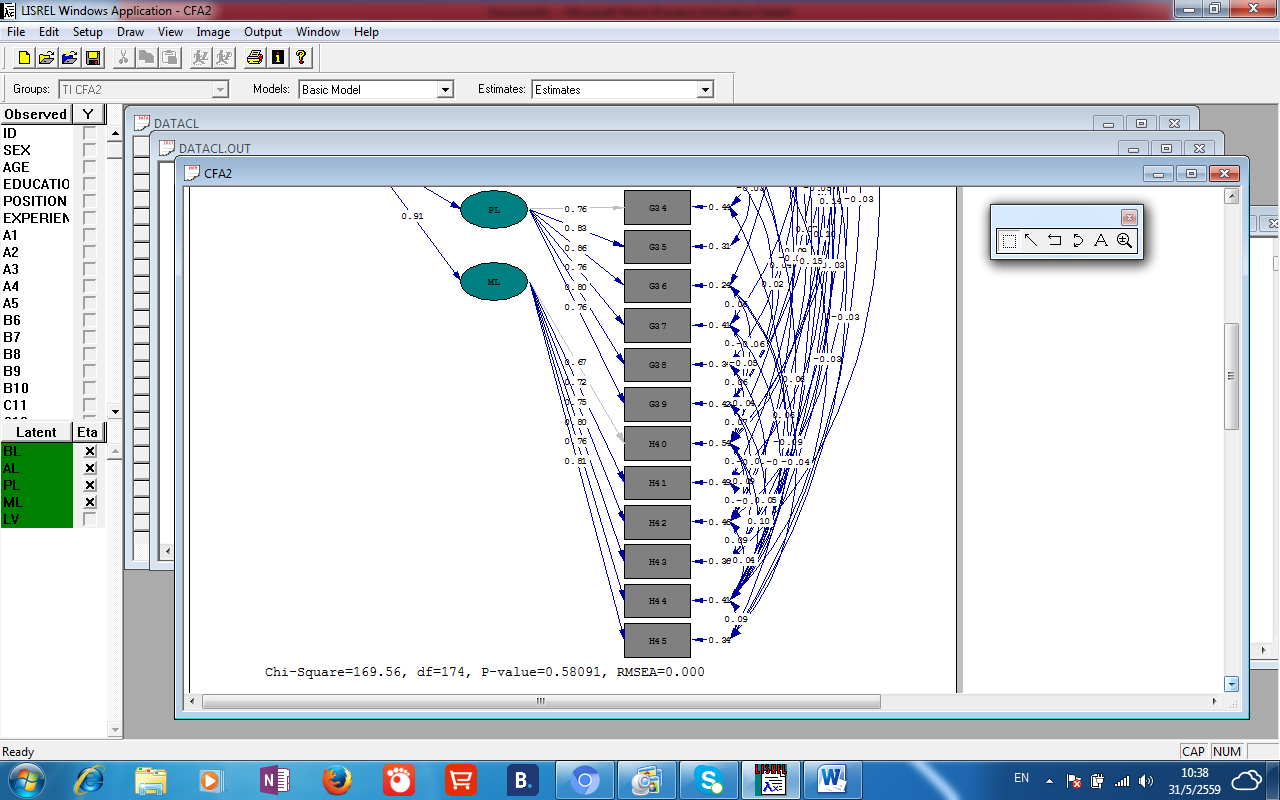
**ภาคผนวก ซ**

**โมเดลความสัมพันธ์โครงสร้างด้านการเป็นผู้นำที่มีวิสัยทัศน์**

**โมเดลความสัมพันธ์โครงสร้างด้านการเป็นผู้นำที่มีวิสัยทัศน์**





DATE: 5/31/2016

TIME: 10:31

L I S R E L 8.52

BY

Karl G. J”reskog and Dag S”rbom

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The following lines were read from file D:\CFA2.LPJ:

TI CFA2

CFA2

!DA NI=74 NO=280 NG=1 MA=KM

SY='D:\DATACL.dsf' NG=1

SE

28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45

46 47 48 49 50 51 /

MO NY=24 NK=1 NE=4 LY=FU,FI BE=FU,FI GA=FU,FI PH=SY,FR PS=DI,FR TE=SY

LE

BL AL PL ML

LK

LV

FR LY(1,1) LY(2,1) LY(3,1) LY(4,1) LY(5,1) LY(6,2) LY(7,2) LY(8,2) LY(9,2)

FR LY(10,2) LY(11,2) LY(12,2) LY(13,3) LY(14,3) LY(15,3) LY(16,3) LY(17,3) LY(18,3)

FR LY(19,4) LY(20,4) LY(21,4) LY(22,4) LY(23,4) LY(24,4) GA(1,1) GA(2,1) GA(3,1)

FR GA(4,1)

FR TE 1 1 TE 2 2 TE 3 3 TE 4 4 TE 5 5 TE 6 6 TE 7 7 TE 8 8 TE 9 9 TE 010 10 TE 11 11 TE 12 12

FR TE 13 13 TE 14 14 TE 15 15 TE 16 16 TE 17 17 TE 18 18 TE 19 19 TE 20 20 TE 21 21 TE 22 22

FR TE 23 23 TE 24 24 TE 2 1 TE 21 1 TE 23 3 TE 24 4 TE 22 2 TE 21 2 TE 10 3 TE 12 11 TE 21 19

FR TE 22 19 TE 20 19 TE 17 16 TE 21 18 TE 23 13 TE 21 20 TE 23 16 TE 18 12 TE 11 9 TE 11 10

FR TE 4 1 TE 20 7 TE 21 7 TE 10 8 TE 12 10 TE 3 1 TE 3 2 TE 19 2 TE 15 5 TE 18 1 TE 17 7 TE 20 8

FR TE 16 15 TE 18 16 TE 24 15 TE 24 23 TE 10 7 TE 19 7 TE 23 15 TE 19 17 TE 23 21 TE 23 1 TE 16 2

FR TE 22 4 TE 23 4 TE 9 6 TE 23 19 TE 22 21 TE 23 10 TE 7 4 TE 7 6 TE 12 6 TE 19 4 TE 23 11 TE 24 7

FR TE 13 7 TE 18 15 TE 18 17 TE 11 4 TE 24 1 TE 22 1 TE 5 1 TE 5 2 TE 5 3 TE 7 5 TE 22 17 TE 23 18

FR TE 19 18 TE 8 7 TE 14 11 TE 18 11 TE 19 1 TE 12 2 TE 8 2 TE 8 5

PD

OU ME=ML AM RS EF FS SC IT=250

TI CFA2

Number of Input Variables 74

Number of Y - Variables 24

Number of X - Variables 0

Number of ETA - Variables 4

Number of KSI - Variables 1

Number of Observations 280

TI CFA2

Covariance Matrix

E22 E23 E24 E25 E26 F27

-------- -------- -------- -------- -------- --------

E22 1.00

E23 0.80 1.00

E24 0.48 0.54 1.00

E25 0.52 0.56 0.61 1.00

E26 0.47 0.44 0.59 0.64 1.00

F27 0.53 0.49 0.47 0.56 0.49 1.00

F28 0.54 0.51 0.42 0.47 0.49 0.63

F29 0.48 0.43 0.44 0.47 0.39 0.69

F30 0.57 0.51 0.49 0.58 0.48 0.64

F31 0.51 0.48 0.29 0.54 0.46 0.66

F32 0.48 0.43 0.37 0.46 0.43 0.58

F33 0.55 0.52 0.45 0.55 0.48 0.62

G34 0.53 0.49 0.46 0.48 0.47 0.61

G35 0.52 0.46 0.47 0.48 0.46 0.58

G36 0.52 0.49 0.44 0.51 0.41 0.61

G37 0.44 0.36 0.40 0.45 0.44 0.52

G38 0.47 0.40 0.40 0.44 0.45 0.58

G39 0.42 0.45 0.47 0.51 0.49 0.56

H40 0.36 0.27 0.35 0.36 0.38 0.45

H41 0.47 0.44 0.37 0.43 0.41 0.49

H42 0.70 0.57 0.43 0.49 0.44 0.52

H43 0.55 0.62 0.47 0.49 0.49 0.55

H44 0.43 0.42 0.62 0.56 0.52 0.50

H45 0.46 0.42 0.52 0.68 0.54 0.54

Covariance Matrix

F28 F29 F30 F31 F32 F33

-------- -------- -------- -------- -------- --------

F28 1.00

F29 0.70 1.00

F30 0.71 0.71 1.00

F31 0.75 0.63 0.71 1.00

F32 0.62 0.60 0.73 0.75 1.00

F33 0.71 0.66 0.72 0.76 0.79 1.00

G34 0.59 0.56 0.56 0.53 0.50 0.57

G35 0.50 0.52 0.54 0.50 0.45 0.54

G36 0.50 0.56 0.56 0.55 0.52 0.57

G37 0.40 0.44 0.43 0.47 0.41 0.48

G38 0.42 0.52 0.52 0.52 0.45 0.51

G39 0.47 0.46 0.48 0.46 0.47 0.51

H40 0.47 0.39 0.44 0.38 0.37 0.45

H41 0.57 0.53 0.52 0.46 0.47 0.54

H42 0.46 0.45 0.51 0.43 0.45 0.52

H43 0.52 0.51 0.52 0.48 0.46 0.52

H44 0.50 0.48 0.53 0.42 0.49 0.53

H45 0.49 0.48 0.57 0.50 0.49 0.55

Covariance Matrix

G34 G35 G36 G37 G38 G39

-------- -------- -------- -------- -------- --------

G34 1.00

G35 0.62 1.00

G36 0.63 0.74 1.00

G37 0.55 0.67 0.72 1.00

G38 0.58 0.68 0.73 0.74 1.00

G39 0.56 0.60 0.61 0.55 0.68 1.00

H40 0.40 0.45 0.47 0.39 0.47 0.54

H41 0.45 0.51 0.49 0.42 0.46 0.54

H42 0.48 0.54 0.53 0.43 0.47 0.41

H43 0.52 0.58 0.60 0.54 0.58 0.54

H44 0.52 0.49 0.42 0.40 0.44 0.55

H45 0.48 0.53 0.51 0.48 0.52 0.57

Covariance Matrix

H40 H41 H42 H43 H44 H45

-------- -------- -------- -------- -------- --------

H40 1.00

H41 0.72 1.00

H42 0.59 0.68 1.00

H43 0.42 0.59 0.68 1.00

H44 0.62 0.57 0.61 0.59 1.00

H45 0.56 0.56 0.59 0.64 0.73 1.00

TI CFA2

Parameter Specifications

LAMBDA-Y

BL AL PL ML

-------- -------- -------- --------

E22 0 0 0 0

E23 1 0 0 0

E24 2 0 0 0

E25 3 0 0 0

E26 4 0 0 0

F27 0 0 0 0

F28 0 5 0 0

F29 0 6 0 0

F30 0 7 0 0

F31 0 8 0 0

F32 0 9 0 0

F33 0 10 0 0

G34 0 0 0 0

G35 0 0 11 0

G36 0 0 12 0

G37 0 0 13 0

G38 0 0 14 0

G39 0 0 15 0

H40 0 0 0 0

H41 0 0 0 16

H42 0 0 0 17

H43 0 0 0 18

H44 0 0 0 19

H45 0 0 0 20

GAMMA

LV

--------

BL 21

AL 22

PL 23

ML 24

PSI

BL AL PL ML

-------- -------- -------- --------

25 26 27 28

THETA-EPS

E22 E23 E24 E25 E26 F27

-------- -------- -------- -------- -------- --------

E22 29

E23 30 31

E24 32 33 34

E25 35 0 0 36

E26 37 38 39 0 40

F27 0 0 0 0 0 41

F28 0 0 0 42 43 44

F29 0 46 0 0 47 0

F30 0 0 0 0 0 50

F31 0 0 52 0 0 0

F32 0 0 0 56 0 0

F33 0 60 0 0 0 61

G34 0 0 0 0 0 0

G35 0 0 0 0 0 0

G36 0 0 0 0 69 0

G37 0 71 0 0 0 0

G38 0 0 0 0 0 0

G39 77 0 0 0 0 0

H40 84 85 0 86 0 0

H41 0 0 0 0 0 0

H42 95 96 0 0 0 0

H43 102 103 0 104 0 0

H44 109 0 110 111 0 0

H45 121 0 0 122 0 0

THETA-EPS

F28 F29 F30 F31 F32 F33

-------- -------- -------- -------- -------- --------

F28 45

F29 48 49

F30 0 0 51

F31 53 54 0 55

F32 0 0 57 58 59

F33 0 0 0 62 63 64

G34 65 0 0 0 0 0

G35 0 0 0 0 67 0

G36 0 0 0 0 0 0

G37 0 0 0 0 0 0

G38 74 0 0 0 0 0

G39 0 0 0 0 78 79

H40 87 0 0 0 0 0

H41 91 92 0 0 0 0

H42 97 0 0 0 0 0

H43 0 0 0 0 0 0

H44 0 0 0 112 113 0

H45 123 0 0 0 0 0

THETA-EPS

G34 G35 G36 G37 G38 G39

-------- -------- -------- -------- -------- --------

G34 66

G35 0 68

G36 0 0 70

G37 0 0 72 73

G38 0 0 0 75 76

G39 0 0 80 81 82 83

H40 0 0 0 0 88 89

H41 0 0 0 0 0 0

H42 0 0 0 0 0 98

H43 0 0 0 0 105 0

H44 114 0 115 116 0 117

H45 0 0 124 0 0 0

THETA-EPS

H40 H41 H42 H43 H44 H45

-------- -------- -------- -------- -------- --------

H40 90

H41 93 94

H42 99 100 101

H43 106 0 107 108

H44 118 0 119 0 120

H45 0 0 0 0 125 126

TI CFA2

Number of Iterations = 17

LISREL Estimates (Maximum Likelihood)

LAMBDA-Y

BL AL PL ML

-------- -------- -------- --------

E22 0.79 - - - - - -

E23 0.70 - - - - - -

(0.04)

15.89

E24 0.72 - - - - - -

(0.07)

11.01

E25 0.81 - - - - - -

(0.07)

11.78

E26 0.75 - - - - - -

(0.07)

11.26

F27 - - 0.85 - - - -

F28 - - 0.81 - - - -

(0.05)

15.23

F29 - - 0.80 - - - -

(0.05)

15.80

F30 - - 0.87 - - - -

(0.05)

15.84

F31 - - 0.80 - - - -

(0.05)

15.89

F32 - - 0.73 - - - -

(0.05)

13.75

F33 - - 0.83 - - - -

(0.05)

15.38

G34 - - - - 0.76 - -

G35 - - - - 0.83 - -

(0.06)

14.57

G36 - - - - 0.86 - -

(0.06)

15.15

G37 - - - - 0.76 - -

(0.06)

12.95

G38 - - - - 0.80 - -

(0.06)

14.11

G39 - - - - 0.76 - -

(0.06)

12.79

H40 - - - - - - 0.67

H41 - - - - - - 0.72

(0.05)

14.21

H42 - - - - - - 0.75

(0.06)

12.08

H43 - - - - - - 0.80

(0.08)

10.40

H44 - - - - - - 0.76

(0.06)

12.28

H45 - - - - - - 0.81

(0.07)

11.53

GAMMA

LV

--------

BL 0.88

(0.07)

13.12

AL 0.88

(0.06)

14.67

PL 0.89

(0.07)

12.93

ML 0.91

(0.08)

11.30

Covariance Matrix of ETA and KSI

BL AL PL ML LV

-------- -------- -------- -------- --------

BL 1.00

AL 0.78 1.00

PL 0.79 0.79 1.00

ML 0.81 0.80 0.81 1.00

LV 0.88 0.88 0.89 0.91 1.00

PHI

LV

--------

1.00

PSI

Note: This matrix is diagonal.

BL AL PL ML

-------- -------- -------- --------

0.22 0.23 0.20 0.17

(0.05) (0.04) (0.04) (0.04)

4.16 5.86 5.04 3.87

Squared Multiple Correlations for Structural Equations

BL AL PL ML

-------- -------- -------- --------

0.78 0.77 0.80 0.83

Squared Multiple Correlations for Reduced Form

BL AL PL ML

-------- -------- -------- --------

0.78 0.77 0.80 0.83

THETA-EPS

E22 E23 E24 E25 E26 F27

-------- -------- -------- -------- -------- --------

E22 0.37

(0.06)

6.33

E23 0.22 0.49

(0.05) (0.05)

4.65 9.58

E24 -0.09 0.03 0.48

(0.04) (0.03) (0.05)

-2.45 1.02 9.56

E25 -0.10 - - - - 0.34

(0.03) (0.04)

-3.75 8.62

E26 -0.11 -0.10 0.04 - - 0.43

(0.04) (0.03) (0.03) (0.05)

-3.02 -3.09 1.09 8.92

F27 - - - - - - - - - - 0.28

(0.03)

8.23

F28 - - - - - - -0.05 0.05 -0.06

(0.02) (0.02) (0.02)

-2.15 1.90 -2.46

F29 - - -0.02 - - - - -0.04 - -

(0.02) (0.03)

-1.09 -1.61

F30 - - - - - - - - - - -0.10

(0.02)

-4.32

F31 - - - - -0.13 - - - - - -

(0.02)

-5.61

F32 - - - - - - -0.05 - - - -

(0.02)

-2.61

F33 - - 0.03 - - - - - - -0.07

(0.02) (0.02)

2.00 -3.48

G34 - - - - - - - - - - - -

G35 - - - - - - - - - - - -

G36 - - - - - - - - -0.06 - -

(0.02)

-2.56

G37 - - -0.06 - - - - - - - -

(0.02)

-3.07

G38 - - - - - - - - - - - -

G39 -0.08 - - - - - - - - - -

(0.02)

-3.28

H40 -0.06 -0.12 - - -0.07 - - - -

(0.03) (0.03) (0.02)

-2.11 -4.13 -3.02

H41 - - - - - - - - - - - -

H42 0.23 0.13 - - - - - - - -

(0.03) (0.03)

6.86 4.53

H43 0.04 0.18 - - -0.02 - - - -

(0.03) (0.03) (0.02)

1.36 5.46 -0.86

H44 -0.05 - - 0.14 0.03 - - - -

(0.02) (0.03) (0.03)

-2.25 5.37 1.14

H45 -0.03 - - - - 0.15 - - - -

(0.02) (0.03)

-1.25 5.11

THETA-EPS

F28 F29 F30 F31 F32 F33

-------- -------- -------- -------- -------- --------

F28 0.33

(0.03)

9.73

F29 0.04 0.36

(0.02) (0.03)

1.68 10.41

F30 - - - - 0.25

(0.03)

8.61

F31 0.08 -0.01 - - 0.34

(0.02) (0.02) (0.03)

3.75 -0.68 10.50

F32 - - - - 0.09 0.16 0.48

(0.02) (0.02) (0.04)

4.43 6.36 11.43

F33 - - - - - - 0.08 0.18 0.30

(0.02) (0.03) (0.03)

3.49 6.39 9.38

G34 0.06 - - - - - - - - - -

(0.02)

2.87

G35 - - - - - - - - -0.03 - -

(0.02)

-1.43

G36 - - - - - - - - - - - -

G37 - - - - - - - - - - - -

G38 -0.07 - - - - - - - - - -

(0.02)

-3.62

G39 - - - - - - - - 0.04 0.02

(0.02) (0.02)

1.94 0.99

H40 0.07 - - - - - - - - - -

(0.02)

3.04

H41 0.10 0.09 - - - - - - - -

(0.03) (0.02)

3.94 3.84

H42 -0.02 - - - - - - - - - -

(0.02)

-1.13

H43 - - - - - - - - - - - -

H44 - - - - - - -0.03 0.06 - -

(0.02) (0.02)

-1.79 3.08

H45 -0.03 - - - - - - - - - -

(0.02)

-1.40

THETA-EPS

G34 G35 G36 G37 G38 G39

-------- -------- -------- -------- -------- --------

G34 0.44

(0.04)

10.66

G35 - - 0.31

(0.03)

9.74

G36 - - - - 0.24

(0.03)

8.35

G37 - - - - 0.06 0.41

(0.02) (0.04)

2.41 9.84

G38 - - - - - - 0.10 0.34

(0.03) (0.03)

3.84 9.95

G39 - - - - -0.06 -0.05 0.06 0.42

(0.02) (0.03) (0.03) (0.04)

-2.53 -1.67 2.29 9.64

H40 - - - - - - - - 0.04 0.07

(0.02) (0.03)

1.72 2.46

H41 - - - - - - - - - - - -

H42 - - - - - - - - - - -0.12

(0.03)

-4.77

H43 - - - - - - - - 0.05 - -

(0.02)

2.41

H44 0.06 - - -0.09 -0.04 - - 0.05

(0.02) (0.02) (0.02) (0.02)

2.45 -4.19 -1.63 2.22

H45 - - - - -0.04 - - - - - -

(0.02)

-2.09

THETA-EPS

H40 H41 H42 H43 H44 H45

-------- -------- -------- -------- -------- --------

H40 0.54

(0.05)

10.69

H41 0.23 0.49

(0.04) (0.05)

6.33 10.56

H42 0.09 0.15 0.46

(0.03) (0.03) (0.04)

2.68 5.39 10.37

H43 -0.12 - - 0.09 0.36

(0.03) (0.03) (0.04)

-4.44 3.17 9.29

H44 0.10 - - 0.04 - - 0.41

(0.03) (0.02) (0.04)

4.08 1.85 10.00

H45 - - - - - - - - 0.09 0.34

(0.03) (0.04)

3.36 8.97

Squared Multiple Correlations for Y - Variables

E22 E23 E24 E25 E26 F27

-------- -------- -------- -------- -------- --------

0.63 0.50 0.52 0.66 0.57 0.72

Squared Multiple Correlations for Y - Variables

F28 F29 F30 F31 F32 F33

-------- -------- -------- -------- -------- --------

0.66 0.64 0.75 0.65 0.52 0.70

Squared Multiple Correlations for Y - Variables

G34 G35 G36 G37 G38 G39

-------- -------- -------- -------- -------- --------

0.57 0.69 0.75 0.59 0.65 0.58

Squared Multiple Correlations for Y - Variables

H40 H41 H42 H43 H44 H45

-------- -------- -------- -------- -------- --------

0.45 0.51 0.55 0.64 0.58 0.66

Goodness of Fit Statistics

Degrees of Freedom = 174

Minimum Fit Function Chi-Square = 173.07 (P = 0.51)

Normal Theory Weighted Least Squares Chi-Square = 169.56 (P = 0.58)

Estimated Non-centrality Parameter (NCP) = 0.0

90 Percent Confidence Interval for NCP = (0.0 ; 29.78)

Minimum Fit Function Value = 0.62

Population Discrepancy Function Value (F0) = 0.0

90 Percent Confidence Interval for F0 = (0.0 ; 0.11)

Root Mean Square Error of Approximation (RMSEA) = 0.0

90 Percent Confidence Interval for RMSEA = (0.0 ; 0.025)

P-Value for Test of Close Fit (RMSEA < 0.05) = 1.00

Expected Cross-Validation Index (ECVI) = 1.53

90 Percent Confidence Interval for ECVI = (1.53 ; 1.63)

ECVI for Saturated Model = 2.15

ECVI for Independence Model = 76.96

Chi-Square for Independence Model with 276 Degrees of Freedom = 21424.68

Independence AIC = 21472.68

Model AIC = 421.56

Saturated AIC = 600.00

Independence CAIC = 21583.92

Model CAIC = 1005.54

Saturated CAIC = 1990.44

Normed Fit Index (NFI) = 0.99

Non-Normed Fit Index (NNFI) = 1.00

Parsimony Normed Fit Index (PNFI) = 0.63

Comparative Fit Index (CFI) = 1.00

Incremental Fit Index (IFI) = 1.00

Relative Fit Index (RFI) = 0.99

Critical N (CN) = 356.16

Root Mean Square Residual (RMR) = 0.029

Standardized RMR = 0.029

Goodness of Fit Index (GFI) = 0.95

Adjusted Goodness of Fit Index (AGFI) = 0.92

Parsimony Goodness of Fit Index (PGFI) = 0.55

TI CFA2

Fitted Covariance Matrix

E22 E23 E24 E25 E26 F27

-------- -------- -------- -------- -------- --------

E22 0.99

E23 0.78 0.99

E24 0.48 0.54 1.00

E25 0.54 0.57 0.58 0.99

E26 0.49 0.43 0.58 0.61 0.99

F27 0.52 0.47 0.48 0.53 0.50 1.00

F28 0.50 0.44 0.45 0.46 0.52 0.63

F29 0.49 0.42 0.45 0.50 0.43 0.68

F30 0.53 0.47 0.48 0.54 0.51 0.64

F31 0.49 0.44 0.31 0.50 0.47 0.68

F32 0.45 0.40 0.41 0.41 0.42 0.62

F33 0.51 0.49 0.46 0.52 0.49 0.63

G34 0.47 0.42 0.43 0.48 0.45 0.50

G35 0.52 0.46 0.47 0.53 0.49 0.56

G36 0.54 0.48 0.49 0.55 0.46 0.58

G37 0.48 0.37 0.43 0.49 0.45 0.51

G38 0.50 0.45 0.45 0.51 0.48 0.53

G39 0.40 0.42 0.43 0.49 0.45 0.51

H40 0.37 0.26 0.39 0.37 0.41 0.46

H41 0.46 0.41 0.42 0.47 0.44 0.49

H42 0.71 0.56 0.44 0.49 0.46 0.51

H43 0.55 0.63 0.46 0.50 0.49 0.55

H44 0.43 0.43 0.58 0.52 0.46 0.52

H45 0.49 0.46 0.47 0.67 0.49 0.55

Fitted Covariance Matrix

F28 F29 F30 F31 F32 F33

-------- -------- -------- -------- -------- --------

F28 0.99

F29 0.69 0.99

F30 0.70 0.69 1.00

F31 0.73 0.62 0.69 0.98

F32 0.59 0.58 0.72 0.74 1.01

F33 0.67 0.66 0.72 0.74 0.78 0.99

G34 0.54 0.47 0.51 0.47 0.43 0.49

G35 0.53 0.52 0.57 0.52 0.45 0.54

G36 0.55 0.54 0.59 0.54 0.49 0.56

G37 0.49 0.48 0.52 0.48 0.44 0.50

G38 0.44 0.50 0.54 0.50 0.46 0.52

G39 0.49 0.48 0.52 0.48 0.48 0.52

H40 0.51 0.43 0.46 0.43 0.39 0.45

H41 0.57 0.55 0.50 0.46 0.42 0.48

H42 0.47 0.48 0.52 0.48 0.44 0.50

H43 0.52 0.51 0.56 0.51 0.47 0.53

H44 0.49 0.48 0.52 0.45 0.50 0.50

H45 0.50 0.52 0.56 0.52 0.47 0.54

Fitted Covariance Matrix

G34 G35 G36 G37 G38 G39

-------- -------- -------- -------- -------- --------

G34 1.01

G35 0.63 1.00

G36 0.65 0.72 0.99

G37 0.58 0.64 0.72 1.00

G38 0.61 0.67 0.69 0.71 0.98

G39 0.58 0.64 0.60 0.54 0.68 1.01

H40 0.41 0.45 0.47 0.42 0.47 0.48

H41 0.44 0.49 0.51 0.45 0.47 0.45

H42 0.46 0.51 0.53 0.47 0.49 0.35

H43 0.49 0.54 0.56 0.50 0.57 0.50

H44 0.52 0.51 0.44 0.44 0.49 0.53

H45 0.50 0.55 0.53 0.50 0.53 0.50

Fitted Covariance Matrix

H40 H41 H42 H43 H44 H45

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H40 0.99

H41 0.72 1.01

H42 0.60 0.70 1.02

H43 0.42 0.58 0.69 1.01

H44 0.61 0.55 0.61 0.61 0.98

H45 0.54 0.58 0.61 0.65 0.70 1.00

Fitted Residuals

E22 E23 E24 E25 E26 F27

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E22 0.01

E23 0.02 0.01

E24 -0.01 0.00 0.00

E25 -0.01 -0.01 0.03 0.01

E26 -0.01 0.01 0.01 0.03 0.01

F27 0.01 0.03 0.00 0.03 -0.01 0.00

F28 0.04 0.07 -0.03 0.01 -0.02 0.00

F29 -0.01 0.01 -0.01 -0.03 -0.03 0.01

F30 0.03 0.04 0.01 0.03 -0.03 0.00

F31 0.02 0.04 -0.02 0.04 -0.01 -0.02

F32 0.03 0.04 -0.04 0.05 0.00 -0.04

F33 0.03 0.04 -0.01 0.03 -0.01 -0.01

G34 0.06 0.06 0.03 0.00 0.02 0.10

G35 0.00 0.00 0.00 -0.05 -0.04 0.02

G36 -0.02 0.01 -0.05 -0.04 -0.04 0.03

G37 -0.04 -0.01 -0.04 -0.04 -0.02 0.01

G38 -0.03 -0.05 -0.05 -0.07 -0.03 0.04

G39 0.02 0.02 0.04 0.03 0.04 0.05

H40 0.00 0.01 -0.04 0.00 -0.02 0.00

H41 0.01 0.03 -0.05 -0.04 -0.02 0.00

H42 -0.01 0.01 0.00 0.00 -0.02 0.00

H43 0.00 -0.01 0.00 -0.01 0.01 0.00

H44 0.00 -0.01 0.04 0.03 0.06 -0.02

H45 -0.03 -0.04 0.05 0.01 0.04 -0.01

Fitted Residuals

F28 F29 F30 F31 F32 F33

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F28 0.01

F29 0.01 0.01

F30 0.01 0.02 0.00

F31 0.02 0.01 0.02 0.02

F32 0.03 0.02 0.01 0.02 -0.01

F33 0.04 0.00 0.00 0.02 0.01 0.01

G34 0.04 0.09 0.04 0.06 0.07 0.08

G35 -0.03 0.00 -0.03 -0.02 0.00 -0.01

G36 -0.05 0.02 -0.03 0.00 0.03 0.01

G37 -0.09 -0.04 -0.09 -0.01 -0.02 -0.02

G38 -0.02 0.02 -0.03 0.02 -0.01 -0.01

G39 -0.02 -0.02 -0.03 -0.01 -0.01 -0.01

H40 -0.04 -0.04 -0.02 -0.05 -0.02 0.01

H41 0.00 -0.01 0.02 0.00 0.05 0.06

H42 -0.01 -0.03 -0.01 -0.05 0.01 0.02

H43 0.00 0.00 -0.03 -0.04 0.00 -0.01

H44 0.01 0.00 0.00 -0.03 -0.01 0.02

H45 -0.01 -0.03 0.01 -0.02 0.01 0.01

Fitted Residuals

G34 G35 G36 G37 G38 G39

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G34 -0.01

G35 -0.01 0.00

G36 -0.02 0.02 0.01

G37 -0.03 0.04 0.00 0.00

G38 -0.02 0.01 0.03 0.03 0.02

G39 -0.01 -0.04 0.01 0.02 0.00 -0.01

H40 -0.01 0.00 0.00 -0.03 -0.01 0.05

H41 0.01 0.02 -0.02 -0.03 -0.01 0.09

H42 0.02 0.03 0.00 -0.04 -0.02 0.06

H43 0.02 0.04 0.03 0.04 0.01 0.04

H44 0.00 -0.02 -0.02 -0.04 -0.05 0.03

H45 -0.02 -0.02 -0.01 -0.02 -0.01 0.06

Fitted Residuals

H40 H41 H42 H43 H44 H45

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H40 0.01

H41 0.00 -0.01

H42 0.00 -0.01 -0.02

H43 0.00 0.01 -0.01 -0.01

H44 0.01 0.02 0.00 -0.02 0.02

H45 0.02 -0.03 -0.02 -0.01 0.02 0.00

Summary Statistics for Fitted Residuals

Smallest Fitted Residual = -0.09

Median Fitted Residual = 0.00

Largest Fitted Residual = 0.10

Stemleaf Plot

- 8|98

- 7|

- 6|9

- 5|5332

- 4|9999533222110

- 3|988877766554443333111110

- 2|998876554333322211111100000

- 1|98776665554444333222222211111110000000

- 0|9977777776666655554444333333222222221110000

0|1111122233333444455555556666777788888999999

1|0011111222223333455667778899999

2|00001111112222345577789

3|0000222223344445566678899

4|113344557

5|113477

6|012449

7|07

8|

9|12

10|4

Standardized Residuals

E22 E23 E24 E25 E26 F27

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E22 0.37

E23 1.41 0.97

E24 -0.27 0.07 0.08

E25 -0.69 -0.67 1.71 0.79

E26 -0.65 0.42 0.92 1.70 0.90

F27 0.30 0.89 -0.10 1.06 -0.26 -0.57

F28 1.50 2.18 -0.97 0.67 -1.08 -0.04

F29 -0.34 0.50 -0.20 -1.10 -1.67 0.67

F30 1.30 1.29 0.18 1.41 -1.01 -0.28

F31 0.71 1.20 -0.90 1.38 -0.34 -1.47

F32 0.85 0.98 -1.01 2.00 0.09 -2.13

F33 1.21 1.30 -0.41 1.16 -0.25 -1.26

G34 1.82 1.85 0.91 -0.04 0.66 3.42

G35 -0.06 -0.14 -0.04 -2.14 -1.35 0.81

G36 -0.67 0.25 -1.70 -1.83 -2.35 1.36

G37 -1.32 -0.18 -1.09 -1.45 -0.47 0.33

G38 -1.20 -1.43 -1.67 -2.61 -0.95 1.47

G39 0.83 0.66 1.09 0.87 1.26 1.72

H40 -0.22 0.43 -1.18 -0.17 -0.67 -0.06

H41 0.27 0.92 -1.46 -1.27 -0.73 0.10

H42 -0.27 0.56 -0.09 0.01 -0.65 0.12

H43 -0.19 -0.58 0.06 -0.79 0.27 0.17

H44 -0.09 -0.27 1.46 1.96 2.08 -0.70

H45 -1.54 -1.27 1.56 0.44 1.57 -0.39

Standardized Residuals

F28 F29 F30 F31 F32 F33

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F28 0.85

F29 0.94 1.31

F30 0.62 1.27 1.43

F31 1.43 0.62 1.28 1.71

F32 1.53 1.03 0.81 1.51 -0.51

F33 2.50 -0.16 -0.16 1.80 0.67 1.52

G34 1.70 2.80 1.51 1.78 1.94 2.49

G35 -1.09 -0.14 -1.12 -0.73 -0.01 -0.24

G36 -1.89 0.72 -1.31 0.16 0.97 0.23

G37 -2.88 -1.36 -3.15 -0.37 -0.65 -0.52

G38 -0.88 0.69 -1.07 0.74 -0.18 -0.39

G39 -0.48 -0.53 -1.22 -0.45 -0.42 -0.37

H40 -1.70 -1.25 -0.78 -1.50 -0.57 0.22

H41 0.06 -0.56 0.55 0.03 1.47 1.97

H42 -0.42 -0.84 -0.36 -1.58 0.28 0.59

H43 0.16 0.10 -1.26 -1.25 -0.10 -0.35

H44 0.29 -0.15 0.17 -1.46 -0.37 0.73

H45 -0.53 -1.22 0.22 -0.74 0.46 0.46

Standardized Residuals

G34 G35 G36 G37 G38 G39

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G34 -1.71

G35 -0.36 -0.69

G36 -1.43 1.57 1.35

G37 -1.53 2.18 0.57 0.50

G38 -1.18 0.91 2.52 3.20 2.31

G39 -0.61 -2.09 1.11 1.40 0.00 -0.57

H40 -0.37 -0.13 -0.06 -0.89 -0.25 2.14

H41 0.25 0.81 -0.70 -0.97 -0.24 2.72

H42 0.64 1.05 0.08 -1.16 -0.67 2.79

H43 0.74 1.36 1.30 1.50 0.60 1.42

H44 -0.07 -0.74 -0.99 -1.58 -1.85 1.21

H45 -0.66 -0.63 -0.87 -0.86 -0.44 2.15

Standardized Residuals

H40 H41 H42 H43 H44 H45

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H40 0.72

H41 0.03 -1.15

H42 -0.46 -0.73 -1.34

H43 0.40 0.58 -0.95 -0.60

H44 0.52 0.85 0.23 -0.83 1.00

H45 1.00 -1.36 -1.15 -0.89 1.83 0.29

Summary Statistics for Standardized Residuals

Smallest Standardized Residual = -3.15

Median Standardized Residual = 0.00

Largest Standardized Residual = 3.42

Stemleaf Plot

- 3|1

- 2|96

- 2|4111

- 1|9887777766555555

- 1|4444443333333322222222211111100000

- 0|99999999888877777777777777776666666665555555

- 0|44444444444444333333333222222222211111111111100000000

0|11111111122222222222333333344444

0|555556666666667777777777778888888999999999

1|00000001112222333333334444444444

1|55555555566677777888889

2|000111223

2|555788

3|24

Largest Negative Standardized Residuals

Residual for G37 and F28 -2.88

Residual for G37 and F30 -3.15

Residual for G38 and E25 -2.61

Largest Positive Standardized Residuals

Residual for G34 and F27 3.42

Residual for G34 and F29 2.80

Residual for G38 and G37 3.20

Residual for H41 and G39 2.72

Residual for H42 and G39 2.79

TI CFA2

Qplot of Standardized Residuals

3.5..........................................................................

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. . .

. . .

. . .

. . .

. . x.

. . x .

. . \* .

. . x x .

. . xx .

. . \* x .

. . xx\* .

. . x\*x .

. . xx\* .

N . . \*\* .

o . . x\*x .

r . .xx\*x .

m . .x\*\* .

a . .\*\*x .

l . x\*\* .

. xxx .

Q . \*\* .

u . \*\* .

a . \*x\* .

n . xxx .

t . x\* .

i . x\*\* .

l . xxx\* .

e . xx. .

s . \*\* .

. xx .

. xx .

. \* .

. \* x .

. x.x .

. \* .

. x x .

. x . .

. x . .

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. . .

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-3.5..........................................................................

-3.5 3.5

Standardized Residuals

TI CFA2

Modification Indices and Expected Change

Modification Indices for LAMBDA-Y

BL AL PL ML

-------- -------- -------- --------

E22 - - 0.49 0.73 0.04

E23 - - 0.84 0.55 0.02

E24 - - 0.14 0.00 0.30

E25 - - 2.07 3.93 0.42

E26 - - 1.38 0.00 0.20

F27 0.45 - - 4.67 0.45

F28 0.23 - - 2.34 0.00

F29 1.74 - - 0.26 0.50

F30 1.03 - - 2.42 0.45

F31 0.30 - - 0.01 3.70

F32 0.23 - - 0.48 0.42

F33 0.49 - - 0.21 1.39

G34 4.43 12.61 - - 0.15

G35 1.82 0.59 - - 0.00

G36 1.22 0.17 - - 0.04

G37 0.00 5.00 - - 0.24

G38 4.40 0.68 - - 0.86

G39 5.75 0.25 - - 7.44

H40 1.39 0.57 0.15 - -

H41 0.01 1.76 0.17 - -

H42 0.16 0.65 0.01 - -

H43 0.01 0.90 1.94 - -

H44 0.48 0.00 1.00 - -

H45 0.02 0.05 0.02 - -

Expected Change for LAMBDA-Y

BL AL PL ML

-------- -------- -------- --------

E22 - - 0.07 -0.10 0.04

E23 - - 0.07 0.06 -0.02

E24 - - -0.03 0.00 -0.06

E25 - - 0.16 -0.25 0.13

E26 - - -0.11 0.00 0.05

F27 0.05 - - 0.18 0.06

F28 -0.04 - - -0.10 0.00

F29 -0.09 - - 0.04 -0.06

F30 0.07 - - -0.11 -0.05

F31 0.03 - - -0.01 -0.13

F32 -0.03 - - 0.05 0.04

F33 0.04 - - 0.03 0.08

G34 0.16 0.27 - - 0.04

G35 -0.10 -0.06 - - 0.00

G36 -0.08 -0.03 - - -0.02

G37 0.00 -0.16 - - -0.04

G38 -0.14 0.05 - - -0.08

G39 0.21 -0.04 - - 0.27

H40 -0.13 -0.06 0.04 - -

H41 -0.01 0.10 0.03 - -

H42 0.04 -0.06 -0.01 - -

H43 -0.01 -0.07 0.13 - -

H44 0.06 0.00 -0.09 - -

H45 0.01 -0.02 0.01 - -

Standardized Expected Change for LAMBDA-Y

BL AL PL ML

-------- -------- -------- --------

E22 - - 0.07 -0.10 0.04

E23 - - 0.07 0.06 -0.02

E24 - - -0.03 0.00 -0.06

E25 - - 0.16 -0.25 0.13

E26 - - -0.11 0.00 0.05

F27 0.05 - - 0.18 0.06

F28 -0.04 - - -0.10 0.00

F29 -0.09 - - 0.04 -0.06

F30 0.07 - - -0.11 -0.05

F31 0.03 - - -0.01 -0.13

F32 -0.03 - - 0.05 0.04

F33 0.04 - - 0.03 0.08

G34 0.16 0.27 - - 0.04

G35 -0.10 -0.06 - - 0.00

G36 -0.08 -0.03 - - -0.02

G37 0.00 -0.16 - - -0.04

G38 -0.14 0.05 - - -0.08

G39 0.21 -0.04 - - 0.27

H40 -0.13 -0.06 0.04 - -

H41 -0.01 0.10 0.03 - -

H42 0.04 -0.06 -0.01 - -

H43 -0.01 -0.07 0.13 - -

H44 0.06 0.00 -0.09 - -

H45 0.01 -0.02 0.01 - -

Completely Standardized Expected Change for LAMBDA-Y

BL AL PL ML

-------- -------- -------- --------

E22 - - 0.07 -0.10 0.04

E23 - - 0.07 0.07 -0.02

E24 - - -0.03 0.00 -0.06

E25 - - 0.16 -0.25 0.13

E26 - - -0.11 0.00 0.05

F27 0.05 - - 0.18 0.06

F28 -0.04 - - -0.10 0.00

F29 -0.09 - - 0.04 -0.06

F30 0.07 - - -0.11 -0.05

F31 0.03 - - -0.01 -0.13

F32 -0.03 - - 0.05 0.04

F33 0.04 - - 0.03 0.08

G34 0.16 0.27 - - 0.04

G35 -0.10 -0.06 - - 0.00

G36 -0.08 -0.03 - - -0.02

G37 0.00 -0.16 - - -0.04

G38 -0.14 0.05 - - -0.08

G39 0.21 -0.04 - - 0.27

H40 -0.13 -0.06 0.04 - -

H41 -0.01 0.10 0.03 - -

H42 0.03 -0.06 -0.01 - -

H43 -0.01 -0.07 0.13 - -

H44 0.06 0.00 -0.09 - -

H45 0.01 -0.02 0.01 - -

Modification Indices for BETA

BL AL PL ML

-------- -------- -------- --------

BL - - 2.42 3.31 0.08

AL 2.42 - - 0.08 3.31

PL 3.31 0.08 - - 2.42

ML 0.08 3.31 2.42 - -

Expected Change for BETA

BL AL PL ML

-------- -------- -------- --------

BL - - 0.20 -0.27 0.06

AL 0.21 - - 0.05 -0.33

PL -0.25 0.04 - - 0.28

ML 0.04 -0.24 0.24 - -

Standardized Expected Change for BETA

BL AL PL ML

-------- -------- -------- --------

BL - - 0.20 -0.27 0.06

AL 0.21 - - 0.05 -0.33

PL -0.25 0.04 - - 0.28

ML 0.04 -0.24 0.24 - -

No Non-Zero Modification Indices for GAMMA

No Non-Zero Modification Indices for PHI

Modification Indices for PSI

BL AL PL ML

-------- -------- -------- --------

BL - -

AL 2.42 - -

PL 3.31 0.08 - -

ML 0.08 3.31 2.42 - -

Expected Change for PSI

BL AL PL ML

-------- -------- -------- --------

BL - -

AL 0.05 - -

PL -0.05 0.01 - -

ML 0.01 -0.06 0.05 - -

Standardized Expected Change for PSI

BL AL PL ML

-------- -------- -------- --------

BL - -

AL 0.05 - -

PL -0.05 0.01 - -

ML 0.01 -0.06 0.05 - -

Modification Indices for THETA-EPS

E22 E23 E24 E25 E26 F27

-------- -------- -------- -------- -------- --------

E22 - -

E23 - - - -

E24 - - - - - -

E25 - - 0.64 0.18 - -

E26 - - - - - - 0.08 - -

F27 0.62 0.08 0.02 0.52 0.25 - -

F28 0.43 0.01 1.12 - - - - - -

F29 1.09 - - 0.48 1.83 - - 0.62

F30 1.40 0.04 1.79 0.74 1.41 - -

F31 0.03 0.37 - - 0.62 0.02 0.57

F32 0.21 0.00 2.81 - - 0.50 2.04

F33 0.33 - - 0.02 0.06 0.22 - -

G34 0.30 0.28 0.27 0.03 0.00 2.46

G35 0.00 0.23 0.73 0.91 0.94 0.00

G36 1.34 1.05 1.95 0.06 - - 0.32

G37 0.00 - - 0.06 0.05 0.53 0.12

G38 0.00 0.60 0.11 3.58 0.01 0.02

G39 - - 0.05 0.80 0.49 0.26 2.26

H40 - - - - 0.71 - - 0.15 1.15

H41 0.04 0.83 1.73 0.50 0.02 1.11

H42 - - - - 0.08 1.70 0.61 1.94

H43 - - - - 0.16 - - 0.02 0.00

H44 - - 0.05 - - - - 2.59 2.44

H45 - - 2.71 2.24 - - 0.13 0.17

Modification Indices for THETA-EPS

F28 F29 F30 F31 F32 F33

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F28 - -

F29 - - - -

F30 0.26 0.41 - -

F31 - - - - 2.05 - -

F32 0.03 0.48 - - - - - -

F33 1.16 1.57 0.93 - - - - - -

G34 - - 1.54 0.41 0.00 0.08 0.30

G35 0.01 0.12 0.02 0.13 - - 0.00

G36 0.13 2.67 0.74 0.34 3.40 0.44

G37 2.57 1.00 2.87 0.63 0.11 0.62

G38 - - 2.07 0.24 2.36 0.51 0.35

G39 0.05 3.31 0.67 0.84 - - - -

H40 - - 0.78 0.07 0.53 0.55 0.01

H41 - - - - 0.32 0.07 0.05 1.39

H42 - - 0.33 0.45 2.59 0.42 0.00

H43 0.64 0.26 1.03 1.09 0.36 0.58

H44 0.13 0.18 0.00 - - - - 0.79

H45 - - 0.10 0.18 0.04 0.02 0.03

Modification Indices for THETA-EPS

G34 G35 G36 G37 G38 G39

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G34 - -

G35 0.00 - -

G36 1.37 0.33 - -

G37 0.14 2.35 - - - -

G38 0.33 0.04 1.69 - - - -

G39 0.21 2.75 - - - - - - - -

H40 0.06 0.31 1.92 0.06 - - - -

H41 0.09 0.62 2.30 0.34 0.63 4.72

H42 0.02 0.29 0.43 1.80 0.00 - -

H43 0.26 0.43 0.01 4.14 - - 0.11

H44 - - 0.22 - - - - 0.86 - -

H45 1.24 0.03 - - 0.56 0.69 1.49

Modification Indices for THETA-EPS

H40 H41 H42 H43 H44 H45

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H40 - -

H41 - - - -

H42 - - - - - -

H43 - - 0.03 - - - -

H44 - - 0.86 - - 0.36 - -

H45 0.50 1.73 0.09 0.28 - - - -

Expected Change for THETA-EPS

E22 E23 E24 E25 E26 F27

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E22 - -

E23 - - - -

E24 - - - - - -

E25 - - -0.03 0.01 - -

E26 - - - - - - 0.01 - -

F27 -0.01 0.01 0.00 0.02 -0.01 - -

F28 0.01 0.00 -0.03 - - - - - -

F29 -0.02 - - 0.02 -0.03 - - 0.02

F30 0.02 0.00 0.03 0.02 -0.03 - -

F31 0.00 0.01 - - 0.02 0.00 -0.02

F32 -0.01 0.00 -0.04 - - 0.02 -0.04

F33 0.01 - - 0.00 0.01 -0.01 - -

G34 0.01 0.01 0.01 0.00 0.00 0.04

G35 0.00 -0.01 0.02 -0.02 -0.02 0.00

G36 -0.02 0.02 -0.03 0.01 - - -0.01

G37 0.00 - - 0.01 0.00 0.02 0.01

G38 0.00 -0.02 -0.01 -0.04 0.00 0.00

G39 - - 0.01 0.02 0.02 0.01 0.03

H40 - - - - -0.02 - - -0.01 0.02

H41 0.01 0.02 -0.03 -0.02 0.00 -0.02

H42 - - - - 0.01 0.03 -0.02 0.03

H43 - - - - -0.01 - - 0.00 0.00

H44 - - -0.01 - - - - 0.04 -0.03

H45 - - -0.04 0.04 - - 0.01 -0.01

Expected Change for THETA-EPS

F28 F29 F30 F31 F32 F33

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F28 - -

F29 - - - -

F30 -0.01 0.01 - -

F31 - - - - 0.03 - -

F32 0.00 0.01 - - - - - -

F33 0.02 -0.03 -0.02 - - - - - -

G34 - - 0.03 0.01 0.00 -0.01 0.01

G35 0.00 -0.01 0.00 -0.01 - - 0.00

G36 -0.01 0.03 -0.01 -0.01 0.03 -0.01

G37 -0.03 -0.02 -0.03 0.01 -0.01 0.01

G38 - - 0.03 0.01 0.03 -0.01 -0.01

G39 0.00 -0.04 -0.02 -0.02 - - - -

H40 - - -0.02 0.01 -0.01 -0.02 0.00

H41 - - - - 0.01 0.00 0.00 0.02

H42 - - -0.01 -0.01 -0.03 0.01 0.00

H43 0.02 0.01 -0.02 -0.02 0.01 -0.01

H44 0.01 0.01 0.00 - - - - 0.02

H45 - - -0.01 0.01 0.00 0.00 0.00

Expected Change for THETA-EPS

G34 G35 G36 G37 G38 G39

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G34 - -

G35 0.00 - -

G36 -0.03 0.01 - -

G37 -0.01 0.04 - - - -

G38 -0.01 0.00 0.03 - - - -

G39 -0.01 -0.05 - - - - - - - -

H40 -0.01 -0.01 0.03 0.01 - - - -

H41 -0.01 0.02 -0.03 0.01 -0.02 0.06

H42 0.00 0.01 0.01 -0.03 0.00 - -

H43 -0.01 0.01 0.00 0.05 - - -0.01

H44 - - -0.01 - - - - -0.02 - -

H45 -0.03 0.00 - - -0.02 0.02 0.03

Expected Change for THETA-EPS

H40 H41 H42 H43 H44 H45

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H40 - -

H41 - - - -

H42 - - - - - -

H43 - - 0.00 - - - -

H44 - - 0.03 - - -0.02 - -

H45 0.02 -0.03 0.01 0.01 - - - -

Completely Standardized Expected Change for THETA-EPS

E22 E23 E24 E25 E26 F27

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E22 - -

E23 - - - -

E24 - - - - - -

E25 - - -0.03 0.01 - -

E26 - - - - - - 0.01 - -

F27 -0.01 0.01 0.00 0.02 -0.01 - -

F28 0.01 0.00 -0.03 - - - - - -

F29 -0.02 - - 0.02 -0.03 - - 0.02

F30 0.02 0.00 0.03 0.02 -0.03 - -

F31 0.00 0.01 - - 0.02 0.00 -0.02

F32 -0.01 0.00 -0.04 - - 0.02 -0.04

F33 0.01 - - 0.00 0.01 -0.01 - -

G34 0.01 0.01 0.01 0.00 0.00 0.04

G35 0.00 -0.01 0.02 -0.02 -0.02 0.00

G36 -0.02 0.02 -0.03 0.01 - - -0.01

G37 0.00 - - 0.01 0.00 0.02 0.01

G38 0.00 -0.02 -0.01 -0.04 0.00 0.00

G39 - - 0.01 0.02 0.02 0.01 0.03

H40 - - - - -0.02 - - -0.01 0.02

H41 0.01 0.02 -0.03 -0.02 0.00 -0.02

H42 - - - - 0.01 0.03 -0.02 0.03

H43 - - - - -0.01 - - 0.00 0.00

H44 - - -0.01 - - - - 0.04 -0.03

H45 - - -0.04 0.04 - - 0.01 -0.01

Completely Standardized Expected Change for THETA-EPS

F28 F29 F30 F31 F32 F33

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F28 - -

F29 - - - -

F30 -0.01 0.01 - -

F31 - - - - 0.03 - -

F32 0.00 0.01 - - - - - -

F33 0.02 -0.03 -0.02 - - - - - -

G34 - - 0.03 0.01 0.00 -0.01 0.01

G35 0.00 -0.01 0.00 -0.01 - - 0.00

G36 -0.01 0.03 -0.02 -0.01 0.03 -0.01

G37 -0.03 -0.02 -0.03 0.01 -0.01 0.01

G38 - - 0.03 0.01 0.03 -0.01 -0.01

G39 0.00 -0.04 -0.02 -0.02 - - - -

H40 - - -0.02 0.01 -0.01 -0.02 0.00

H41 - - - - 0.01 0.01 0.00 0.02

H42 - - -0.01 -0.01 -0.03 0.01 0.00

H43 0.02 0.01 -0.02 -0.02 0.01 -0.01

H44 0.01 0.01 0.00 - - - - 0.02

H45 - - -0.01 0.01 0.00 0.00 0.00

Completely Standardized Expected Change for THETA-EPS

G34 G35 G36 G37 G38 G39

-------- -------- -------- -------- -------- --------

G34 - -

G35 0.00 - -

G36 -0.03 0.01 - -

G37 -0.01 0.04 - - - -

G38 -0.01 0.00 0.03 - - - -

G39 -0.01 -0.05 - - - - - - - -

H40 -0.01 -0.01 0.03 0.01 - - - -

H41 -0.01 0.02 -0.03 0.01 -0.02 0.06

H42 0.00 0.01 0.01 -0.03 0.00 - -

H43 -0.01 0.01 0.00 0.05 - - -0.01

H44 - - -0.01 - - - - -0.02 - -

H45 -0.03 0.00 - - -0.02 0.02 0.03

Completely Standardized Expected Change for THETA-EPS

H40 H41 H42 H43 H44 H45

-------- -------- -------- -------- -------- --------

H40 - -

H41 - - - -

H42 - - - - - -

H43 - - 0.00 - - - -

H44 - - 0.03 - - -0.02 - -

H45 0.02 -0.03 0.01 0.01 - - - -

Maximum Modification Index is 12.61 for Element (13, 2) of LAMBDA-Y

TI CFA2

Factor Scores Regressions

ETA

E22 E23 E24 E25 E26 F27

-------- -------- -------- -------- -------- --------

BL 0.51 -0.07 0.16 0.32 0.19 0.00

AL 0.03 -0.04 0.02 0.01 0.00 0.31

PL 0.04 -0.01 0.00 -0.02 0.06 0.03

ML 0.15 -0.12 0.02 0.00 0.05 0.05

ETA

F28 F29 F30 F31 F32 F33

-------- -------- -------- -------- -------- --------

BL -0.08 0.03 0.01 0.09 0.01 -0.01

AL 0.15 0.08 0.30 0.07 -0.11 0.23

PL 0.01 0.01 0.03 0.02 -0.03 0.01

ML -0.05 0.00 0.07 0.07 -0.07 0.06

ETA

G34 G35 G36 G37 G38 G39

-------- -------- -------- -------- -------- --------

BL 0.02 0.02 0.06 0.01 -0.05 0.00

AL -0.02 0.00 0.03 -0.01 0.04 0.01

PL 0.10 0.18 0.30 0.08 0.11 0.18

ML 0.00 0.01 0.14 0.01 -0.05 0.04

ETA

H40 H41 H42 H43 H44 H45

-------- -------- -------- -------- -------- --------

BL 0.18 0.04 -0.30 0.16 0.03 -0.08

AL -0.01 -0.04 0.02 0.01 0.03 0.02

PL -0.05 0.02 0.04 -0.03 0.06 0.05

ML 0.10 0.10 0.00 0.28 0.15 0.20

TI CFA2

Standardized Solution

LAMBDA-Y

BL AL PL ML

-------- -------- -------- --------

E22 0.79 - - - - - -

E23 0.70 - - - - - -

E24 0.72 - - - - - -

E25 0.81 - - - - - -

E26 0.75 - - - - - -

F27 - - 0.85 - - - -

F28 - - 0.81 - - - -

F29 - - 0.80 - - - -

F30 - - 0.87 - - - -

F31 - - 0.80 - - - -

F32 - - 0.73 - - - -

F33 - - 0.83 - - - -

G34 - - - - 0.76 - -

G35 - - - - 0.83 - -

G36 - - - - 0.86 - -

G37 - - - - 0.76 - -

G38 - - - - 0.80 - -

G39 - - - - 0.76 - -

H40 - - - - - - 0.67

H41 - - - - - - 0.72

H42 - - - - - - 0.75

H43 - - - - - - 0.80

H44 - - - - - - 0.76

H45 - - - - - - 0.81

GAMMA

LV

--------

BL 0.88

AL 0.88

PL 0.89

ML 0.91

Correlation Matrix of ETA and KSI

BL AL PL ML LV

-------- -------- -------- -------- --------

BL 1.00

AL 0.78 1.00

PL 0.79 0.79 1.00

ML 0.81 0.80 0.81 1.00

LV 0.88 0.88 0.89 0.91 1.00

PSI

Note: This matrix is diagonal.

BL AL PL ML

-------- -------- -------- --------

0.22 0.23 0.20 0.17

TI CFA2

Completely Standardized Solution

LAMBDA-Y

BL AL PL ML

-------- -------- -------- --------

E22 0.79 - - - - - -

E23 0.71 - - - - - -

E24 0.72 - - - - - -

E25 0.81 - - - - - -

E26 0.76 - - - - - -

F27 - - 0.85 - - - -

F28 - - 0.81 - - - -

F29 - - 0.80 - - - -

F30 - - 0.87 - - - -

F31 - - 0.81 - - - -

F32 - - 0.72 - - - -

F33 - - 0.83 - - - -

G34 - - - - 0.75 - -

G35 - - - - 0.83 - -

G36 - - - - 0.87 - -

G37 - - - - 0.77 - -

G38 - - - - 0.81 - -

G39 - - - - 0.76 - -

H40 - - - - - - 0.67

H41 - - - - - - 0.72

H42 - - - - - - 0.74

H43 - - - - - - 0.80

H44 - - - - - - 0.76

H45 - - - - - - 0.81

GAMMA

LV

--------

BL 0.88

AL 0.88

PL 0.89

ML 0.91

Correlation Matrix of ETA and KSI

BL AL PL ML LV

-------- -------- -------- -------- --------

BL 1.00

AL 0.78 1.00

PL 0.79 0.79 1.00

ML 0.81 0.80 0.81 1.00

LV 0.88 0.88 0.89 0.91 1.00

PSI

Note: This matrix is diagonal.

BL AL PL ML

-------- -------- -------- --------

0.22 0.23 0.20 0.17

THETA-EPS

E22 E23 E24 E25 E26 F27

-------- -------- -------- -------- -------- --------

E22 0.37

E23 0.22 0.50

E24 -0.09 0.03 0.48

E25 -0.10 - - - - 0.34

E26 -0.11 -0.10 0.04 - - 0.43

F27 - - - - - - - - - - 0.28

F28 - - - - - - -0.05 0.05 -0.06

F29 - - -0.02 - - - - -0.04 - -

F30 - - - - - - - - - - -0.10

F31 - - - - -0.13 - - - - - -

F32 - - - - - - -0.05 - - - -

F33 - - 0.03 - - - - - - -0.07

G34 - - - - - - - - - - - -

G35 - - - - - - - - - - - -

G36 - - - - - - - - -0.06 - -

G37 - - -0.06 - - - - - - - -

G38 - - - - - - - - - - - -

G39 -0.08 - - - - - - - - - -

H40 -0.06 -0.12 - - -0.07 - - - -

H41 - - - - - - - - - - - -

H42 0.22 0.13 - - - - - - - -

H43 0.04 0.18 - - -0.02 - - - -

H44 -0.05 - - 0.15 0.03 - - - -

H45 -0.03 - - - - 0.15 - - - -

THETA-EPS

F28 F29 F30 F31 F32 F33

-------- -------- -------- -------- -------- --------

F28 0.34

F29 0.04 0.36

F30 - - - - 0.25

F31 0.08 -0.01 - - 0.35

F32 - - - - 0.09 0.16 0.48

F33 - - - - - - 0.08 0.18 0.30

G34 0.06 - - - - - - - - - -

G35 - - - - - - - - -0.03 - -

G36 - - - - - - - - - - - -

G37 - - - - - - - - - - - -

G38 -0.07 - - - - - - - - - -

G39 - - - - - - - - 0.04 0.02

H40 0.08 - - - - - - - - - -

H41 0.10 0.09 - - - - - - - -

H42 -0.02 - - - - - - - - - -

H43 - - - - - - - - - - - -

H44 - - - - - - -0.03 0.06 - -

H45 -0.03 - - - - - - - - - -

THETA-EPS

G34 G35 G36 G37 G38 G39

-------- -------- -------- -------- -------- --------

G34 0.43

G35 - - 0.31

G36 - - - - 0.25

G37 - - - - 0.06 0.41

G38 - - - - - - 0.10 0.35

G39 - - - - -0.06 -0.05 0.06 0.42

H40 - - - - - - - - 0.04 0.07

H41 - - - - - - - - - - - -

H42 - - - - - - - - - - -0.12

H43 - - - - - - - - 0.05 - -

H44 0.06 - - -0.09 -0.04 - - 0.06

H45 - - - - -0.04 - - - - - -

THETA-EPS

H40 H41 H42 H43 H44 H45

-------- -------- -------- -------- -------- --------

H40 0.55

H41 0.23 0.49

H42 0.09 0.15 0.45

H43 -0.12 - - 0.09 0.36

H44 0.10 - - 0.04 - - 0.42

H45 - - - - - - - - 0.09 0.34

TI CFA2

Total and Indirect Effects

Total Effects of X on ETA

LV

--------

BL 0.88

(0.07)

13.12

AL 0.88

(0.06)

14.67

PL 0.89

(0.07)

12.93

ML 0.91

(0.08)

11.30

BETA\*BETA' is not Pos. Def., Stability Index cannot be Computed

Total Effects of ETA on Y

BL AL PL ML

-------- -------- -------- --------

E22 0.79 - - - - - -

E23 0.70 - - - - - -

(0.04)

15.89

E24 0.72 - - - - - -

(0.07)

11.01

E25 0.81 - - - - - -

(0.07)

11.78

E26 0.75 - - - - - -

(0.07)

11.26

F27 - - 0.85 - - - -

F28 - - 0.81 - - - -

(0.05)

15.23

F29 - - 0.80 - - - -

(0.05)

15.80

F30 - - 0.87 - - - -

(0.05)

15.84

F31 - - 0.80 - - - -

(0.05)

15.89

F32 - - 0.73 - - - -

(0.05)

13.75

F33 - - 0.83 - - - -

(0.05)

15.38

G34 - - - - 0.76 - -

G35 - - - - 0.83 - -

(0.06)

14.57

G36 - - - - 0.86 - -

(0.06)

15.15

G37 - - - - 0.76 - -

(0.06)

12.95

G38 - - - - 0.80 - -

(0.06)

14.11

G39 - - - - 0.76 - -

(0.06)

12.79

H40 - - - - - - 0.67

H41 - - - - - - 0.72

(0.05)

14.21

H42 - - - - - - 0.75

(0.06)

12.08

H43 - - - - - - 0.80

(0.08)

10.40

H44 - - - - - - 0.76

(0.06)

12.28

H45 - - - - - - 0.81

(0.07)

11.53

Total Effects of X on Y

LV

--------

E22 0.70

(0.05)

13.12

E23 0.62

(0.05)

11.57

E24 0.64

(0.05)

11.87

E25 0.71

(0.05)

13.31

E26 0.67

(0.05)

12.48

F27 0.75

(0.05)

14.67

F28 0.71

(0.05)

13.90

F29 0.70

(0.05)

13.69

F30 0.76

(0.05)

15.04

F31 0.70

(0.05)

13.80

F32 0.64

(0.05)

12.24

F33 0.73

(0.05)

14.35

G34 0.68

(0.05)

12.93

G35 0.74

(0.05)

14.46

G36 0.77

(0.05)

15.27

G37 0.68

(0.05)

13.03

G38 0.72

(0.05)

14.01

G39 0.68

(0.05)

12.94

H40 0.61

(0.05)

11.30

H41 0.66

(0.05)

12.30

H42 0.68

(0.05)

12.66

H43 0.73

(0.05)

13.92

H44 0.69

(0.05)

13.14

H45 0.74

(0.05)

14.11

TI CFA2

Standardized Total and Indirect Effects

Standardized Total Effects of X on ETA

LV

--------

BL 0.88

AL 0.88

PL 0.89

ML 0.91

Standardized Total Effects of ETA on Y

BL AL PL ML

-------- -------- -------- --------

E22 0.79 - - - - - -

E23 0.70 - - - - - -

E24 0.72 - - - - - -

E25 0.81 - - - - - -

E26 0.75 - - - - - -

F27 - - 0.85 - - - -

F28 - - 0.81 - - - -

F29 - - 0.80 - - - -

F30 - - 0.87 - - - -

F31 - - 0.80 - - - -

F32 - - 0.73 - - - -

F33 - - 0.83 - - - -

G34 - - - - 0.76 - -

G35 - - - - 0.83 - -

G36 - - - - 0.86 - -

G37 - - - - 0.76 - -

G38 - - - - 0.80 - -

G39 - - - - 0.76 - -

H40 - - - - - - 0.67

H41 - - - - - - 0.72

H42 - - - - - - 0.75

H43 - - - - - - 0.80

H44 - - - - - - 0.76

H45 - - - - - - 0.81

Completely Standardized Total Effects of ETA on Y

BL AL PL ML

-------- -------- -------- --------

E22 0.79 - - - - - -

E23 0.71 - - - - - -

E24 0.72 - - - - - -

E25 0.81 - - - - - -

E26 0.76 - - - - - -

F27 - - 0.85 - - - -

F28 - - 0.81 - - - -

F29 - - 0.80 - - - -

F30 - - 0.87 - - - -

F31 - - 0.81 - - - -

F32 - - 0.72 - - - -

F33 - - 0.83 - - - -

G34 - - - - 0.75 - -

G35 - - - - 0.83 - -

G36 - - - - 0.87 - -

G37 - - - - 0.77 - -

G38 - - - - 0.81 - -

G39 - - - - 0.76 - -

H40 - - - - - - 0.67

H41 - - - - - - 0.72

H42 - - - - - - 0.74

H43 - - - - - - 0.80

H44 - - - - - - 0.76

H45 - - - - - - 0.81

Standardized Total Effects of X on Y

LV

--------

E22 0.70

E23 0.62

E24 0.64

E25 0.71

E26 0.67

F27 0.75

F28 0.71

F29 0.70

F30 0.76

F31 0.70

F32 0.64

F33 0.73

G34 0.68

G35 0.74

G36 0.77

G37 0.68

G38 0.72

G39 0.68

H40 0.61

H41 0.66

H42 0.68

H43 0.73

H44 0.69

H45 0.74

Completely Standardized Total Effects of X on Y

LV

--------

E22 0.70

E23 0.63

E24 0.64

E25 0.72

E26 0.67

F27 0.75

F28 0.72

F29 0.70

F30 0.76

F31 0.71

F32 0.64

F33 0.73

G34 0.67

G35 0.74

G36 0.77

G37 0.68

G38 0.72

G39 0.68

H40 0.61

H41 0.65

H42 0.68

H43 0.73

H44 0.70

H45 0.74

Time used: 0.140 Seconds