

DATE: 7/28/2013
TIME: 9:20

L I S R E L 8.53

BY

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The following lines were read from file D:\Dissertation\Lisrel - Viroj\Model F10
All\F10All.LPJ:

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TI F10All
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TD=DI,FR
LE
COA SP
LK
STA EI
FR LY(1,1) LY(2,1) LY(3,1) LY(4,1) LY(5,2) LY(6,2) LX(1,1) LX(2,1) LX(3,1)
FR LX(4,1) LX(5,2) LX(6,2) LX(7,2) LX(8,2) BE(2,1) GA(1,1) GA(1,2) GA(2,1)
FR GA(2,2)
PD
OU AM PC RS EF FS SS SC LX=F10All.lxs PH=F10All.phs TD=F10All.tds
```

TI F10All

```
Number of Input Variables 14
Number of Y - Variables 6
Number of X - Variables 8
Number of ETA - Variables 2
Number of KSI - Variables 2
Number of Observations 402
```

TI F10All

Covariance Matrix

	IOE	TFC	CWF	WWT	BP	OP
IOE	0.23					
TFC	0.12	0.24				
CWF	0.13	0.15	0.27			
WWT	0.12	0.14	0.13	0.23		
BP	0.10	0.09	0.10	0.08	0.41	
OP	0.07	0.08	0.08	0.05	0.34	0.45
PU	0.06	0.08	0.06	0.07	0.07	0.07
TUCR	0.09	0.09	0.07	0.10	0.06	0.07
TUIC	0.12	0.11	0.11	0.11	0.10	0.09
SEA	0.10	0.09	0.11	0.10	0.09	0.07
UOE	0.10	0.09	0.09	0.11	0.09	0.07

Covariance Matrix

	PU	TUCR	TUIC	SEA	UOE
PU	0.28				
TUCR	0.13	0.36			

TUIC	0.14	0.17	0.35		
SEA	0.06	0.08	0.09	0.27	
UOE	0.04	0.06	0.09	0.10	0.21

TI F10All

Number of Iterations = 7

LISREL Estimates (Maximum Likelihood)

Measurement Equations

IOE = 0.34*COA, Errorvar.= 0.11 , R² = 0.53
 (0.0100)
 10.76

TFC = 0.35*COA, Errorvar.= 0.12 , R² = 0.52
 (0.028) (0.011)
 12.50 10.22

CWF = 0.34*COA, Errorvar.= 0.14 , R² = 0.46
 (0.028) (0.012)
 12.12 11.68

WWT = 0.36*COA, Errorvar.= 0.089 , R² = 0.60
 (0.026) (0.0088)
 13.75 10.20

BP = 0.63*SP, Errorvar.= 0.00094, R² = 1.00
 (0.038)
 0.024

OP = 0.52*SP, Errorvar.= 0.17 , R² = 0.61
 (0.052) (0.028)
 9.87 6.17

PU = 0.31*STA, Errorvar.= 0.19 , R² = 0.35
 (0.028) (0.016)
 11.21 11.67

TUCR = 0.39*STA, Errorvar.= 0.21 , R² = 0.42
 (0.031) (0.019)
 12.46 10.70

TUIC = 0.45*STA, Errorvar.= 0.15 , R² = 0.57
 (0.030) (0.019)
 14.70 7.88

SEA = 0.33*EI, Errorvar.= 0.16 , R² = 0.40
 (0.027) (0.014)
 12.13 11.12

UOE = 0.32*EI, Errorvar.= 0.10 , R² = 0.50
 (0.024) (0.011)
 13.47 9.08

Error Covariance for TFC and IOE = -0.01
 (0.0072)
 -1.43

Error Covariance for CWF and TFC = 0.029
 (0.0091)
 3.16

Structural Equations

COA = 0.26*STA + 0.75*EI, Errorvar.= 0.21 , R² = 0.81

	(0.081)	(0.089)	(0.068)
	3.16	8.45	3.02
SP	= 0.044*COA + 0.11*STA + 0.33*EI, Errorvar.= 0.83, R ² = 0.19		
	(0.22)	(0.088)	(0.21)
	0.20	1.20	1.54
			(0.11)
			7.26

Reduced Form Equations

COA	= 0.26*STA + 0.75*EI, Errorvar.= 0.21, R ² = 0.81		
	(0.081)	(0.089)	
	3.16	8.45	
SP	= 0.12*STA + 0.36*EI, Errorvar.= 0.83, R ² = 0.19		
	(0.080)	(0.084)	
	1.46	4.28	

Correlation Matrix of Independent Variables

	STA	EI
	-----	-----
STA	1.00	
EI	0.57	1.00
	(0.06)	
	9.15	

Covariance Matrix of Latent Variables

	COA	SP	STA	EI
	-----	-----	-----	-----
COA	1.06			
SP	0.41	1.02		
STA	0.68	0.32	1.00	
EI	0.90	0.43	0.57	1.00

LX was written to file fort.11

PH was written to file fort.12

TD was written to file fort.13

Goodness of Fit Statistics

Degrees of Freedom = 36
 Minimum Fit Function Chi-Square = 51.08 (P = 0.049)
 Normal Theory Weighted Least Squares Chi-Square = 50.56 (P = 0.054)
 Chi-Square Difference with 1 Degree of Freedom = 2.73 (P = 0.099)
 Estimated Non-centrality Parameter (NCP) = 14.56
 90 Percent Confidence Interval for NCP = (0.0 ; 37.45)

Minimum Fit Function Value = 0.13
 Population Discrepancy Function Value (F0) = 0.036
 90 Percent Confidence Interval for F0 = (0.0 ; 0.093)
 Root Mean Square Error of Approximation (RMSEA) = 0.032
 90 Percent Confidence Interval for RMSEA = (0.0 ; 0.051)
 P-Value for Test of Close Fit (RMSEA < 0.05) = 0.94

Expected Cross-Validation Index (ECVI) = 0.28
 90 Percent Confidence Interval for ECVI = (0.24 ; 0.33)
 ECVI for Saturated Model = 0.33
 ECVI for Independence Model = 7.35

Chi-Square for Independence Model with 55 Degrees of Freedom = 2926.39
 Independence AIC = 2948.39
 Model AIC = 110.56
 Saturated AIC = 132.00
 Independence CAIC = 3003.35
 Model CAIC = 260.46
 Saturated CAIC = 461.77

Normed Fit Index (NFI) = 0.98
 Non-Normed Fit Index (NNFI) = 0.99
 Parsimony Normed Fit Index (PNFI) = 0.64
 Comparative Fit Index (CFI) = 0.99
 Incremental Fit Index (IFI) = 0.99
 Relative Fit Index (RFI) = 0.97

Critical N (CN) = 461.16

Root Mean Square Residual (RMR) = 0.0082
 Standardized RMR = 0.027
 Goodness of Fit Index (GFI) = 0.98
 Adjusted Goodness of Fit Index (AGFI) = 0.96
 Parsimony Goodness of Fit Index (PGFI) = 0.53

TI F10All

Fitted Covariance Matrix

	IOE	TFC	CWF	WWT	BP	OP
IOE	0.23					
TFC	0.12	0.24				
CWF	0.12	0.15	0.27			
WWT	0.13	0.13	0.13	0.23		
BP	0.09	0.09	0.09	0.09	0.41	
OP	0.07	0.07	0.07	0.08	0.34	0.45
PU	0.07	0.07	0.07	0.08	0.06	0.05
TUCR	0.09	0.09	0.09	0.09	0.08	0.06
TUIC	0.10	0.11	0.10	0.11	0.09	0.07
SEA	0.10	0.10	0.10	0.10	0.09	0.07
UOE	0.10	0.10	0.10	0.10	0.09	0.07

Fitted Covariance Matrix

	PU	TUCR	TUIC	SEA	UOE
PU	0.28				
TUCR	0.12	0.36			
TUIC	0.14	0.17	0.35		
SEA	0.06	0.07	0.08	0.27	
UOE	0.06	0.07	0.08	0.10	0.21

Fitted Residuals

	IOE	TFC	CWF	WWT	BP	OP
IOE	0.00					
TFC	0.00	0.00				
CWF	0.00	0.00	0.00			
WWT	-0.01	0.01	0.00	0.00		
BP	0.01	0.00	0.02	-0.02	0.00	
OP	0.00	0.00	0.00	-0.02	0.00	0.00
PU	-0.01	0.00	-0.01	-0.01	0.01	0.02
TUCR	0.00	0.00	-0.02	0.01	-0.02	0.01
TUIC	0.01	0.00	0.00	0.00	0.01	0.02
SEA	0.00	-0.01	0.01	0.00	0.00	0.00
UOE	0.00	-0.01	-0.01	0.01	0.00	0.00

Fitted Residuals

	PU	TUCR	TUIC	SEA	UOE
PU	0.00				
TUCR	0.01	0.00			
TUIC	0.00	0.00	0.00		
SEA	0.00	0.01	0.00	0.00	
UOE	-0.01	-0.01	0.00	0.00	0.00

Summary Statistics for Fitted Residuals

Smallest Fitted Residual = -0.02
 Median Fitted Residual = 0.00

Largest Fitted Residual = 0.02

Stemleaf Plot

```

- 2|2
- 1|8665
- 1|210
- 0|998655
- 0|432211000000000000000000
  0|11112222233344
  0|555668
  1|001224
  1|5
  2|01
    
```

Standardized Residuals

	IOE	TFC	CWF	WWT	BP	OP
IOE	-	-				
TFC	0.72	-0.72				
CWF	0.72	-0.72	-			
WWT	-2.03	2.16	-0.38	-		
BP	1.27	0.03	1.54	-2.29	-	
OP	0.18	0.25	0.30	-2.71	-	-
PU	-1.48	0.55	-1.02	-1.17	0.71	1.53
TUCR	0.24	-0.18	-1.57	0.68	-1.58	0.38
TUIC	1.67	0.26	0.22	-0.09	0.83	1.70
SEA	0.66	-1.92	1.94	-0.57	-0.04	-0.40
UOE	0.22	-1.73	-1.71	2.70	0.04	0.09

Standardized Residuals

	PU	TUCR	TUIC	SEA	UOE
PU	-	-			
TUCR	1.66	-			
TUIC	-0.42	-1.26	-		
SEA	0.10	1.13	0.39	-	
UOE	-1.83	-0.64	0.65	-	-

Summary Statistics for Standardized Residuals

```

Smallest Standardized Residual = -2.71
Median Standardized Residual = 0.00
Largest Standardized Residual = 2.70
    
```

Stemleaf Plot

```

- 2|730
- 1|9877665320
- 0|776644421000000000000000
  0|1122222334456777778
  1|13557779
  2|27
    
```

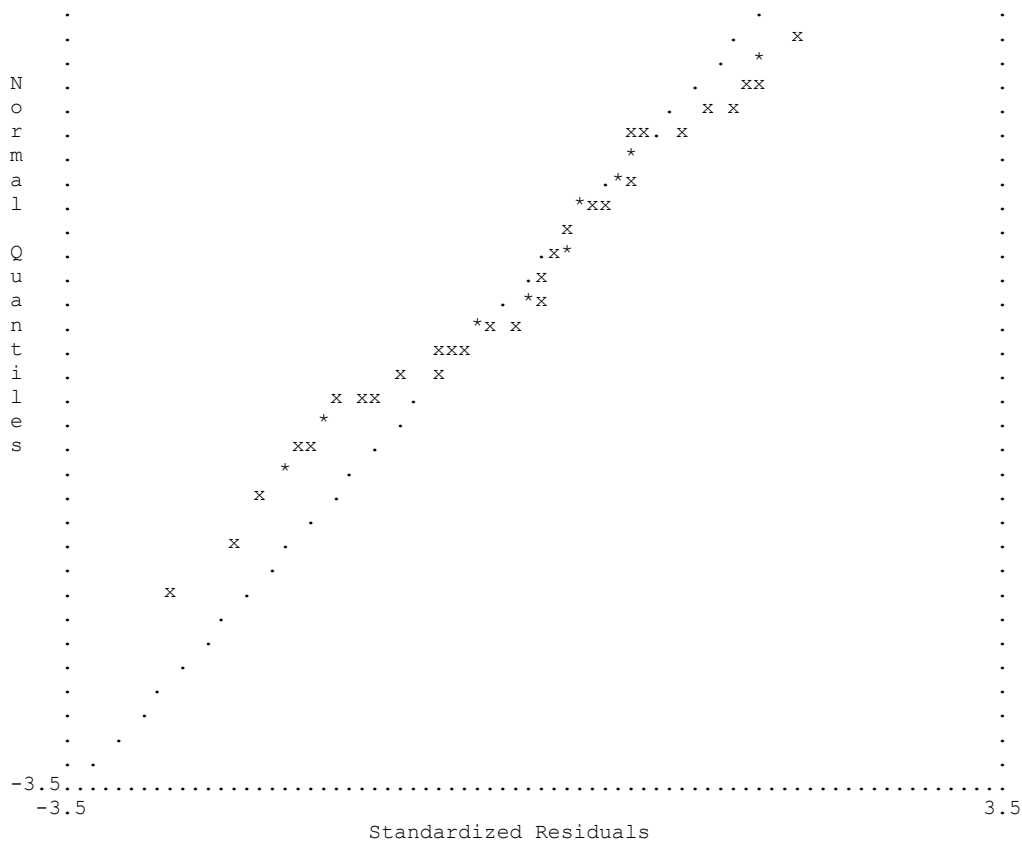
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Largest Negative Standardized Residuals
Residual for      OP and      WWT -2.71
Largest Positive Standardized Residuals
Residual for      UOE and      WWT 2.70
    
```

TI F10All

Qplot of Standardized Residuals





The Modification Indices Suggest to Add an Error Covariance
 Between and Decrease in Chi-Square New Estimate
 UOE WWT 8.4 0.02

Covariance Matrix of Parameter Estimates

	LY 2,1	LY 3,1	LY 4,1	LY 6,2	LX 1,1	LX 2,1
LY 2,1	0.00					
LY 3,1	0.00	0.00				
LY 4,1	0.00	0.00	0.00			
LY 6,2	0.00	0.00	0.00	0.00		
LX 1,1	0.00	0.00	0.00	0.00	0.00	
LX 2,1	0.00	0.00	0.00	0.00	0.00	0.00
LX 3,1	0.00	0.00	0.00	0.00	0.00	0.00
LX 4,2	0.00	0.00	0.00	0.00	0.00	0.00
LX 5,2	0.00	0.00	0.00	0.00	0.00	0.00
BE 2,1	0.00	0.00	0.00	0.00	0.00	0.00
GA 1,1	0.00	0.00	0.00	0.00	0.00	0.00
GA 1,2	0.00	0.00	0.00	0.00	0.00	0.00
GA 2,1	0.00	0.00	0.00	0.00	0.00	0.00
GA 2,2	0.00	0.00	0.00	0.00	0.00	0.00
PH 2,1	0.00	0.00	0.00	0.00	0.00	0.00
PS 1,1	0.00	0.00	0.00	0.00	0.00	0.00
PS 2,2	0.00	0.00	0.00	0.00	0.00	0.00
TE 1,1	0.00	0.00	0.00	0.00	0.00	0.00
TE 2,1	0.00	0.00	0.00	0.00	0.00	0.00
TE 2,2	0.00	0.00	0.00	0.00	0.00	0.00
TE 3,2	0.00	0.00	0.00	0.00	0.00	0.00
TE 3,3	0.00	0.00	0.00	0.00	0.00	0.00
TE 4,4	0.00	0.00	0.00	0.00	0.00	0.00
TE 5,5	0.00	0.00	0.00	0.00	0.00	0.00
TE 6,6	0.00	0.00	0.00	0.00	0.00	0.00
TD 1,1	0.00	0.00	0.00	0.00	0.00	0.00
TD 2,2	0.00	0.00	0.00	0.00	0.00	0.00
TD 3,3	0.00	0.00	0.00	0.00	0.00	0.00
TD 4,4	0.00	0.00	0.00	0.00	0.00	0.00
TD 5,5	0.00	0.00	0.00	0.00	0.00	0.00

Covariance Matrix of Parameter Estimates

	LX 3,1	LX 4,2	LX 5,2	BE 2,1	GA 1,1	GA 1,2
LX 3,1	0.00					
LX 4,2	0.00	0.00				
LX 5,2	0.00	0.00	0.00			
BE 2,1	0.00	0.00	0.00	0.05		
GA 1,1	0.00	0.00	0.00	0.00	0.01	
GA 1,2	0.00	0.00	0.00	0.00	0.00	0.01
GA 2,1	0.00	0.00	0.00	-0.01	0.00	0.00
GA 2,2	0.00	0.00	0.00	-0.04	0.00	0.00
PH 2,1	0.00	0.00	0.00	0.00	0.00	0.00
PS 1,1	0.00	0.00	0.00	0.00	0.00	0.00
PS 2,2	0.00	0.00	0.00	0.00	0.00	0.00
TE 1,1	0.00	0.00	0.00	0.00	0.00	0.00
TE 2,1	0.00	0.00	0.00	0.00	0.00	0.00
TE 2,2	0.00	0.00	0.00	0.00	0.00	0.00
TE 3,2	0.00	0.00	0.00	0.00	0.00	0.00
TE 3,3	0.00	0.00	0.00	0.00	0.00	0.00
TE 4,4	0.00	0.00	0.00	0.00	0.00	0.00
TE 5,5	0.00	0.00	0.00	0.00	0.00	0.00
TE 6,6	0.00	0.00	0.00	0.00	0.00	0.00
TD 1,1	0.00	0.00	0.00	0.00	0.00	0.00
TD 2,2	0.00	0.00	0.00	0.00	0.00	0.00
TD 3,3	0.00	0.00	0.00	0.00	0.00	0.00
TD 4,4	0.00	0.00	0.00	0.00	0.00	0.00
TD 5,5	0.00	0.00	0.00	0.00	0.00	0.00

Covariance Matrix of Parameter Estimates

	GA 2,1	GA 2,2	PH 2,1	PS 1,1	PS 2,2	TE 1,1
GA 2,1	0.01					
GA 2,2	0.00	0.05				
PH 2,1	0.00	0.00	0.00			
PS 1,1	0.00	0.00	0.00	0.00		
PS 2,2	0.00	0.00	0.00	0.00	0.01	
TE 1,1	0.00	0.00	0.00	0.00	0.00	0.00
TE 2,1	0.00	0.00	0.00	0.00	0.00	0.00
TE 2,2	0.00	0.00	0.00	0.00	0.00	0.00
TE 3,2	0.00	0.00	0.00	0.00	0.00	0.00
TE 3,3	0.00	0.00	0.00	0.00	0.00	0.00
TE 4,4	0.00	0.00	0.00	0.00	0.00	0.00
TE 5,5	0.00	0.00	0.00	0.00	0.00	0.00
TE 6,6	0.00	0.00	0.00	0.00	0.00	0.00
TD 1,1	0.00	0.00	0.00	0.00	0.00	0.00
TD 2,2	0.00	0.00	0.00	0.00	0.00	0.00
TD 3,3	0.00	0.00	0.00	0.00	0.00	0.00
TD 4,4	0.00	0.00	0.00	0.00	0.00	0.00
TD 5,5	0.00	0.00	0.00	0.00	0.00	0.00

Covariance Matrix of Parameter Estimates

	TE 2,1	TE 2,2	TE 3,2	TE 3,3	TE 4,4	TE 5,5
TE 2,1	0.00					
TE 2,2	0.00	0.00				
TE 3,2	0.00	0.00	0.00			
TE 3,3	0.00	0.00	0.00	0.00		
TE 4,4	0.00	0.00	0.00	0.00	0.00	
TE 5,5	0.00	0.00	0.00	0.00	0.00	0.00
TE 6,6	0.00	0.00	0.00	0.00	0.00	0.00
TD 1,1	0.00	0.00	0.00	0.00	0.00	0.00
TD 2,2	0.00	0.00	0.00	0.00	0.00	0.00
TD 3,3	0.00	0.00	0.00	0.00	0.00	0.00
TD 4,4	0.00	0.00	0.00	0.00	0.00	0.00
TD 5,5	0.00	0.00	0.00	0.00	0.00	0.00

Covariance Matrix of Parameter Estimates

	TE 6,6	TD 1,1	TD 2,2	TD 3,3	TD 4,4	TD 5,5
TE 6,6	0.00					
TD 1,1	0.00	0.00				
TD 2,2	0.00	0.00	0.00			
TD 3,3	0.00	0.00	0.00	0.00		

TD 4,4	0.00	0.00	0.00	0.00	0.00	
TD 5,5	0.00	0.00	0.00	0.00	0.00	0.00

TI F10All

Correlation Matrix of Parameter Estimates

	LY 2,1	LY 3,1	LY 4,1	LY 6,2	LX 1,1	LX 2,1
LY 2,1	1.00					
LY 3,1	0.60	1.00				
LY 4,1	0.51	0.50	1.00			
LY 6,2	0.00	0.00	0.00	1.00		
LX 1,1	0.00	0.00	0.00	0.00	1.00	
LX 2,1	0.00	0.00	0.00	0.00	0.15	1.00
LX 3,1	0.00	0.00	0.00	0.00	0.12	0.12
LX 4,2	0.00	0.00	0.00	0.00	0.05	0.06
LX 5,2	0.00	0.00	0.00	0.00	0.06	0.07
BE 2,1	0.01	0.01	0.01	0.00	0.00	0.00
GA 1,1	-0.12	-0.11	-0.13	0.00	0.04	0.04
GA 1,2	-0.33	-0.30	-0.34	0.00	0.04	0.05
GA 2,1	0.00	0.00	0.00	0.00	0.01	0.01
GA 2,2	0.00	0.00	0.00	0.00	0.01	0.01
PH 2,1	0.00	0.00	0.00	0.00	0.07	0.08
PS 1,1	-0.21	-0.22	-0.28	0.00	0.00	0.00
PS 2,2	0.00	0.00	0.00	-0.76	0.00	0.00
TE 1,1	0.20	0.23	0.28	0.00	0.00	0.00
TE 2,1	-0.07	0.12	0.22	0.00	0.00	0.00
TE 2,2	-0.25	-0.06	0.08	0.00	0.00	0.00
TE 3,2	-0.21	-0.19	0.07	0.00	0.00	0.00
TE 3,3	-0.09	-0.22	0.01	0.00	0.00	0.00
TE 4,4	0.02	-0.01	-0.28	0.00	0.00	0.00
TE 5,5	0.00	0.00	0.00	0.92	0.00	0.00
TE 6,6	0.00	0.00	0.00	-0.83	0.00	0.00
TD 1,1	0.00	0.00	0.00	0.00	-0.29	0.02
TD 2,2	0.00	0.00	0.00	0.00	0.03	-0.34
TD 3,3	0.00	0.00	0.00	0.00	0.12	0.16
TD 4,4	0.00	0.00	0.00	0.00	0.00	0.00
TD 5,5	0.00	0.00	0.00	0.00	0.00	0.00

Correlation Matrix of Parameter Estimates

	LX 3,1	LX 4,2	LX 5,2	BE 2,1	GA 1,1	GA 1,2
LX 3,1	1.00					
LX 4,2	0.07	1.00				
LX 5,2	0.08	0.22	1.00			
BE 2,1	0.01	0.10	0.16	1.00		
GA 1,1	0.01	0.16	0.25	0.17	1.00	
GA 1,2	0.09	-0.03	-0.10	-0.24	-0.62	1.00
GA 2,1	0.00	0.00	-0.01	-0.46	0.09	0.01
GA 2,2	0.01	-0.08	-0.15	-0.93	-0.20	0.26
PH 2,1	0.04	0.01	-0.03	-0.07	-0.40	0.29
PS 1,1	0.01	0.16	0.25	0.29	0.35	-0.35
PS 2,2	0.00	0.02	0.03	0.14	0.02	-0.03
TE 1,1	0.00	0.00	0.00	0.01	-0.04	-0.11
TE 2,1	0.00	0.00	0.00	0.01	-0.02	-0.05
TE 2,2	0.00	0.00	0.00	0.01	0.01	0.03
TE 3,2	0.00	0.00	0.00	0.01	0.01	0.04
TE 3,3	0.00	0.00	0.00	0.00	0.01	0.03
TE 4,4	0.00	0.00	0.00	0.00	0.02	0.06
TE 5,5	0.00	0.00	0.00	0.00	0.00	0.00
TE 6,6	0.00	0.00	0.00	0.00	0.00	0.00
TD 1,1	0.09	0.00	0.00	0.00	0.01	-0.01
TD 2,2	0.14	0.00	0.00	0.00	0.01	-0.01
TD 3,3	-0.48	0.00	0.00	-0.01	0.07	-0.05
TD 4,4	0.00	-0.32	-0.02	-0.12	-0.17	0.19
TD 5,5	0.00	-0.02	-0.44	-0.22	-0.31	0.33

Correlation Matrix of Parameter Estimates

	GA 2,1	GA 2,2	PH 2,1	PS 1,1	PS 2,2	TE 1,1
GA 2,1	1.00					
GA 2,2	0.20	1.00				
PH 2,1	-0.12	0.11	1.00			

PS 1,1	-0.10	-0.27	-0.10	1.00		
PS 2,2	-0.04	-0.16	-0.01	0.03	1.00	
TE 1,1	0.00	-0.01	0.00	-0.19	0.00	1.00
TE 2,1	-0.01	-0.01	0.00	-0.19	0.00	0.19
TE 2,2	-0.01	-0.01	0.00	-0.12	0.00	0.04
TE 3,2	-0.01	-0.01	0.00	-0.12	0.00	0.01
TE 3,3	0.00	0.00	0.00	-0.05	0.00	-0.04
TE 4,4	0.00	0.00	0.00	-0.02	0.00	-0.11
TE 5,5	0.00	0.00	0.00	0.00	-0.83	0.00
TE 6,6	0.00	0.00	0.00	0.00	0.75	0.00
TD 1,1	0.00	0.00	0.01	0.00	0.00	0.00
TD 2,2	0.01	0.00	0.02	0.00	0.00	0.00
TD 3,3	0.03	0.00	0.10	-0.02	0.00	0.00
TD 4,4	0.01	0.13	0.10	-0.19	-0.02	0.00
TD 5,5	0.02	0.23	0.19	-0.34	-0.04	0.00

Correlation Matrix of Parameter Estimates

	TE 2,1	TE 2,2	TE 3,2	TE 3,3	TE 4,4	TE 5,5
TE 2,1	1.00					
TE 2,2	0.30	1.00				
TE 3,2	0.25	0.55	1.00			
TE 3,3	0.02	0.16	0.50	1.00		
TE 4,4	-0.16	-0.15	-0.15	-0.07	1.00	
TE 5,5	0.00	0.00	0.00	0.00	0.00	1.00
TE 6,6	0.00	0.00	0.00	0.00	0.00	-0.90
TD 1,1	0.00	0.00	0.00	0.00	0.00	0.00
TD 2,2	0.00	0.00	0.00	0.00	0.00	0.00
TD 3,3	0.00	0.00	0.00	0.00	0.00	0.00
TD 4,4	0.00	0.00	0.00	0.00	0.00	0.00
TD 5,5	0.00	0.00	0.00	0.00	0.00	0.00

Correlation Matrix of Parameter Estimates

	TE 6,6	TD 1,1	TD 2,2	TD 3,3	TD 4,4	TD 5,5
TE 6,6	1.00					
TD 1,1	0.00	1.00				
TD 2,2	0.00	-0.03	1.00			
TD 3,3	0.00	-0.13	-0.20	1.00		
TD 4,4	0.00	0.00	0.00	0.00	1.00	
TD 5,5	0.00	0.00	0.00	0.00	0.03	1.00

TI F10All

Factor Scores Regressions

ETA

	IOE	TFC	CFW	WWT	BP	OP
COA	0.53	0.43	0.27	0.61	0.08	0.00
SP	0.00	0.00	0.00	0.00	1.57	0.01

ETA

	PU	TUCR	TUIC	SEA	UOE
COA	0.07	0.07	0.12	0.19	0.29
SP	0.00	0.00	0.00	0.00	0.00

KSI

	IOE	TFC	CFW	WWT	BP	OP
STA	0.14	0.11	0.07	0.16	0.06	0.00
EI	0.32	0.26	0.16	0.37	0.15	0.00

KSI

	PU	TUCR	TUIC	SEA	UOE
STA	0.40	0.45	0.71	0.04	0.06
EI	0.03	0.03	0.05	0.45	0.69

TI F10All

Standardized Solution

LAMBDA-Y

	COA	SP
	-----	-----
IOE	0.35	- -
TFC	0.36	- -
CWF	0.35	- -
WWT	0.37	- -
BP	- -	0.64
OP	- -	0.52

LAMBDA-X

	STA	EI
	-----	-----
PU	0.31	- -
TUCR	0.39	- -
TUIC	0.45	- -
SEA	- -	0.33
UOE	- -	0.32

BETA

	COA	SP
	-----	-----
COA	- -	- -
SP	0.05	- -

GAMMA

	STA	EI
	-----	-----
COA	0.25	0.73
SP	0.10	0.32

Correlation Matrix of ETA and KSI

	COA	SP	STA	EI
	-----	-----	-----	-----
COA	1.00			
SP	0.40	1.00		
STA	0.66	0.32	1.00	
EI	0.87	0.42	0.57	1.00

PSI

Note: This matrix is diagonal.

	COA	SP
	-----	-----
	0.19	0.81

Regression Matrix ETA on KSI (Standardized)

	STA	EI
	-----	-----
COA	0.25	0.73
SP	0.12	0.36

TI F10All

Completely Standardized Solution

LAMBDA-Y

	COA	SP
	-----	-----
IOE	0.73	- -
TFC	0.72	- -
CWF	0.68	- -
WWT	0.78	- -
BP	- -	1.00
OP	- -	0.78

LAMBDA-X

	STA	EI
	-----	-----
PU	0.59	- -
TUCR	0.65	- -
TUIC	0.76	- -
SEA	- -	0.63
UOE	- -	0.71

BETA

	COA	SP
	-----	-----
COA	- -	- -
SP	0.05	- -

GAMMA

	STA	EI
	-----	-----
COA	0.25	0.73
SP	0.10	0.32

Correlation Matrix of ETA and KSI

	COA	SP	STA	EI
	-----	-----	-----	-----
COA	1.00			
SP	0.40	1.00		
STA	0.66	0.32	1.00	
EI	0.87	0.42	0.57	1.00

PSI

Note: This matrix is diagonal.

	COA	SP
	-----	-----
	0.19	0.81

THETA-EPS

	IOE	TFC	CWF	WWT	BP	OP
	-----	-----	-----	-----	-----	-----
IOE	0.47					
TFC	-0.04	0.48				
CWF	- -	0.11	0.54			
WWT	- -	- -	- -	0.40		
BP	- -	- -	- -	- -	0.00	
OP	- -	- -	- -	- -	- -	0.39

THETA-DELTA

	PU	TUCR	TUIC	SEA	UOE
	-----	-----	-----	-----	-----
	0.65	0.58	0.43	0.60	0.50

Regression Matrix ETA on KSI (Standardized)

	STA	EI
	-----	-----
COA	0.25	0.73
SP	0.12	0.36

TI F10A11

Total and Indirect Effects

Total Effects of KSI on ETA

	STA	EI
	-----	-----
COA	0.26	0.75
	(0.08)	(0.09)
	3.16	8.45

SP	0.12	0.36
	(0.08)	(0.08)
	1.46	4.28

Indirect Effects of KSI on ETA

	STA	EI
	-----	-----
COA	- -	- -
SP	0.01	0.03
	(0.06)	(0.16)
	0.20	0.20

Total Effects of ETA on ETA

	COA	SP
	-----	-----
COA	- -	- -
SP	0.04	- -
	(0.22)	
	0.20	

Largest Eigenvalue of B*B' (Stability Index) is 0.002

Total Effects of ETA on Y

	COA	SP
	-----	-----
IOE	0.34	- -
TFC	0.35	- -
	(0.03)	
	12.50	
CWF	0.34	- -
	(0.03)	
	12.12	
WWT	0.36	- -
	(0.03)	
	13.75	
BP	0.03	0.63
	(0.14)	
	0.20	
OP	0.02	0.52
	(0.11)	(0.05)
	0.20	9.87

Indirect Effects of ETA on Y

	COA	SP
	-----	-----
IOE	- -	- -
TFC	- -	- -
CWF	- -	- -
WWT	- -	- -
BP	0.03	- -
	(0.14)	
	0.20	

OP	0.02	- -
	(0.11)	
	0.20	

Total Effects of KSI on Y

	STA	EI
	-----	-----
IOE	0.09	0.26
	(0.03)	(0.03)
	3.16	8.45
TFC	0.09	0.26
	(0.03)	(0.03)
	3.16	8.38
CWF	0.09	0.26
	(0.03)	(0.03)
	3.15	8.18
WWT	0.09	0.27
	(0.03)	(0.03)
	3.17	8.63
BP	0.07	0.23
	(0.05)	(0.05)
	1.46	4.28
OP	0.06	0.19
	(0.04)	(0.05)
	1.44	3.93

TI F10All

Standardized Total and Indirect Effects

Standardized Total Effects of KSI on ETA

	STA	EI
	-----	-----
COA	0.25	0.73
SP	0.12	0.36

Standardized Indirect Effects of KSI on ETA

	STA	EI
	-----	-----
COA	- -	- -
SP	0.01	0.03

Standardized Total Effects of ETA on ETA

	COA	SP
	-----	-----
COA	- -	- -
SP	0.05	- -

Standardized Total Effects of ETA on Y

	COA	SP
	-----	-----
IOE	0.35	- -
TFC	0.36	- -
CWF	0.35	- -
WWT	0.37	- -
BP	0.03	0.64
OP	0.02	0.52

Completely Standardized Total Effects of ETA on Y

	COA	SP
--	-----	----

	-----	-----
IOE	0.73	- -
TFC	0.72	- -
CWF	0.68	- -
WWT	0.78	- -
BP	0.04	1.00
OP	0.04	0.78

Standardized Indirect Effects of ETA on Y

	COA	SP
	-----	-----
IOE	- -	- -
TFC	- -	- -
CWF	- -	- -
WWT	- -	- -
BP	0.03	- -
OP	0.02	- -

Completely Standardized Indirect Effects of ETA on Y

	COA	SP
	-----	-----
IOE	- -	- -
TFC	- -	- -
CWF	- -	- -
WWT	- -	- -
BP	0.04	- -
OP	0.04	- -

Standardized Total Effects of KSI on Y

	STA	EI
	-----	-----
IOE	0.09	0.26
TFC	0.09	0.26
CWF	0.09	0.26
WWT	0.09	0.27
BP	0.07	0.23
OP	0.06	0.19

Completely Standardized Total Effects of KSI on Y

	STA	EI
	-----	-----
IOE	0.18	0.54
TFC	0.18	0.53
CWF	0.17	0.50
WWT	0.19	0.57
BP	0.12	0.36
OP	0.09	0.28

Time used: 0.109 Seconds