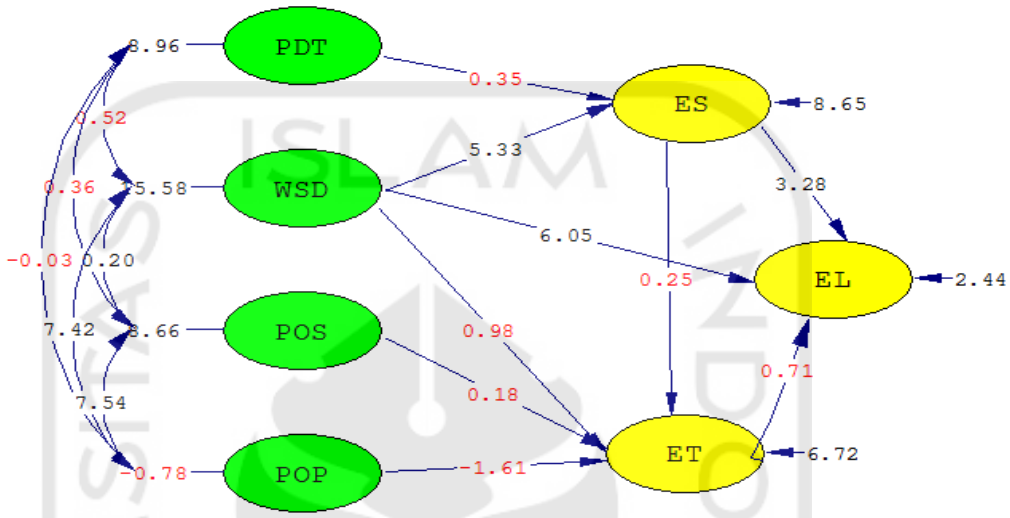
## APPENDIX H

## FINAL *ONE-CONGENERIC* STRUCTURAL EQUATION MODEL FULL (AFTER MODIFICATION)




Chi-Square=21.41, df=6, P-value=0.00155, RMSEA=0.101

DATE: 2/ 6/2019
TIME: 9:18
L I S R E L 8.80
BY
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The following lines were read from file
E:\THESIS\ONECON\ONECON1.LS8:

```
TI MODEL GABUNGAN FIX
DA NI=7 NO=255 MA=CM
LA
EL ES ET PDT WSD POS POP
PM='E:\THESIS\ONECON\ONE.PMM'
AC='E:\THESIS\ONECON\ONE.ACM'
SE
 1 2 3 4 5 6 7/
 MO NX=4 NY=3 NK=4 NE=3 LX=FU,FI
LY=FU,FI GA=FU,FI BE=FU,FI PH=SY,FR
TD=SY,FI PS=DI,FR TE=SY,FI
 LK
 PDT WSD POS POP
 LE
 EL ES ET
```

FR GA 2 1 GA 2 2 GA 3 2 GA 3 3 GA 3 4 GA 1 2
FR BE 1 2 BE 3 2 BE 1 3
VA .871 LX 1 1
VA .239 TD 1 1
VA .927 LX 2 2
VA .139 TD 2 2
VA .887 LX 3 3
VA .212 TD 3 3
VA .810 LX 4 4
VA .937 TD 4 4
VA .121 LY 1 1
VA .907 TE 1 1
VA .947 LY 2 2
VA .101 TE 2 2
VA .810 LY 3 3
VA .342 TE 3 3
PD
OU MI EF

TI MODEL GABUNGAN FIX

Number of Input Variables 7
Number of Y - Variables 3
Number of X - Variables 4
Number of ETA - Variables 3
Number of KSI - Variables 4
Number of Observations 255

TI MODEL GABUNGAN FIX

Covariance Matrix

| | EL | ES | ET | PDT | WSD | POS |
|---|---|---|---|---|---|---|
| EL | 2.21 | | | | | |
| ES | 0.82 | 1.51 | | | | |
| ET | 0.05 | 0.04 | 0.72 | | | |
| PDT | 0.12 | 0.04 | 0.04 | 0.55 | | |
| WSD | 0.61 | 0.37 | -0.02 | 0.01 | 0.55 | |
| POS | 0.51 | 0.32 | -0.01 | 0.01 | 0.45 | 0.46 |
| POP | 0.60 | 0.49 | 0.09 | 0.01 | 0.30 | 0.30 |

Covariance Matrix

| | POP |
|---|---|
| POP | 0.89 |

TI MODEL GABUNGAN FIX

Parameter Specifications

BETA

| | EL | ES | ET |
|---|---|---|---|
| EL | 0 | 1 | 2 |
| ES | 0 | 0 | 0 |
| ET | 0 | 3 | 0 |

GAMMA

| | PDT | WSD | POS | POP |
|---|---|---|---|---|
| EL | 0 | 4 | 0 | 0 |
| ES | 5 | 6 | 0 | 0 |
| ET | 0 | 7 | 8 | 9 |

PHI

| | PDT | WSD | POS | POP |
|---|---|---|---|---|
| PDT | 10 | | | |
| WSD | 11 | 12 | | |
| POS | 13 | 14 | 15 | |
| POP | 16 | 17 | 18 | 19 |

PSI

| EL | ES | ET |
|---|---|---|
| 20 | 21 | 22 |

TI MODEL GABUNGAN FIX

Number of Iterations = 15

LISREL Estimates (Robust Maximum Likelihood)

LAMBDA-Y

| | EL | ES | ET |
|---|---|---|---|
| EL | 0.12 | - - | - - |
| ES | - - | 0.95 | - - |
| ET | - - | - - | 0.81 |

LAMBDA-X

| | PDT | WSD | POS | POP |
|---|---|---|---|---|
| PDT | 0.87 | - - | - - | - - |
| WSD | - - | 0.93 | - - | - - |
| POS | - - | - - | 0.89 | - - |
| POP | - - | - - | - - | 0.81 |

BETA

| | EL | ES | ET |
|---|---|---|---|
| EL | - - | 2.86 | 1.05 |
| | | (0.87) | (1.49) |
| | | 3.28 | 0.71 |
| ES | - - | - - | - - |
| ET | - - | 0.02 | - - |
| | | (0.09) | |
| | | 0.25 | |

GAMMA

| | PDT | WSD | POS | POP |
|---|---|---|---|---|
| EL | - - | 6.93 | - - | - - |
| | | (1.15) | | |
| | | 6.05 | | |
| ES | 0.08 | 0.74 | - - | - - |
| | (0.22) | (0.14) | | |
| | 0.35 | 5.33 | | |
| ET | - - | 0.23 | 0.04 | -0.36 |
| | | (0.23) | (0.20) | (0.23) |
| | | 0.98 | 0.18 | -1.61 |

Covariance Matrix of ETA and KSI

| | EL | ES | ET | PDT | WSD | POS | POP |
|---|---|---|---|---|---|---|---|
| EL | 88.63 | | | | | | |
| ES | 7.10 | 1.57 | | | | | |
| ET | 0.50 | 0.01 | 0.58 | | | | |
| PDT | 0.33 | 0.05 | 0.01 | 0.40 | | | |
| WSD | 4.51 | 0.37 | -0.02 | 0.03 | 0.50 | | |
| POS | 4.91 | 0.41 | -0.01 | 0.02 | 0.54 | 0.32 | |
| POP | 4.18 | 0.33 | 0.15 | 0.00 | 0.44 | 0.42 | -0.07 |

Covariance Matrix of ETA and KSI

| | POP |
|---|---|

PHI

| | PDT | WSD | POS | POP |
|---|---|---|---|---|
| PDT | 0.40 | | | |
| | (0.05) | | | |
| | 8.96 | | | |
| WSD | 0.03 | 0.50 | | |
| | (0.05) | (0.03) | | |
| | 0.52 | 15.58 | | |
| POS | 0.02 | 0.54 | 0.32 | |
| | (0.04) | (0.01) | (0.04) | |
| | 0.36 | 40.20 | 8.66 | |
| POP | 0.00 | 0.44 | 0.42 | -0.07 |
| | (0.06) | (0.06) | (0.06) | (0.09) |
| | -0.03 | 7.42 | 7.54 | -0.78 |

W_A_R_N_I_N_G: PHI is not positive definite

PSI

Note: This matrix is diagonal.

| EL | ES | ET |
|---|---|---|
| 36.59 | 1.29 | 0.63 |
| (14.98) | (0.15) | (0.09) |
| 2.44 | 8.65 | 6.72 |

Squared Multiple Correlations for Structural Equations

| EL | ES | ET |
|---|---|---|
| 0.59 | 0.18 | -0.10 |

Squared Multiple Correlations for Reduced Form

| EL | ES | ET |
|---|---|---|
| 0.46 | 0.18 | -0.10 |

Reduced Form

| | PDT | WSD | POS | POP |
|---|---|---|---|---|
| EL | 0.22 | 9.31 | 0.04 | -0.38 |
| | (0.64) | (1.19) | (0.21) | (0.61) |
| | 0.34 | 7.79 | 0.17 | -0.63 |
| ES | 0.08 | 0.74 | - - | - - |

| | | | | |
|---|---|---|---|---|
| | (0.22) | (0.14) | | |
| | 0.35 | 5.33 | | |
| ET | 0.00 | 0.24 | 0.04 | -0.36 |
| | (0.01) | (0.24) | (0.20) | (0.23) |
| | 0.20 | 1.03 | 0.18 | -1.61 |

THETA-EPS

| EL | ES | ET |
|---|---|---|
| 0.91 | 0.10 | 0.34 |

Squared Multiple Correlations for Y - Variables

| EL | ES | ET |
|---|---|---|
| 0.59 | 0.93 | 0.53 |

THETA-DELTA

| PDT | WSD | POS | POP |
|---|---|---|---|
| 0.24 | 0.14 | 0.21 | 0.94 |

Squared Multiple Correlations for X - Variables

| PDT | WSD | POS | POP |
|---|---|---|---|
| 0.56 | 0.76 | 0.54 | -0.05 |

Goodness of Fit Statistics

Degrees of Freedom = 6
Minimum Fit Function Chi-Square = 53.56 (P = 0.00)
Normal Theory Weighted Least Squares Chi-Square = 43.07 (P = 0.00)
Satorra-Bentler Scaled Chi-Square = 21.41 (P = 0.0015)
Chi-Square Corrected for Non-Normality = 24.96 (P = 0.00035)
Estimated Non-centrality Parameter (NCP) = 15.41
90 Percent Confidence Interval for NCP = (4.90 ; 33.49)

Minimum Fit Function Value = 0.21
Population Discrepancy Function Value (F0) = 0.061
90 Percent Confidence Interval for F0 = (0.019 ; 0.13)
Root Mean Square Error of Approximation (RMSEA) = 0.10
90 Percent Confidence Interval for RMSEA = (0.057 ; 0.15)
P-Value for Test of Close Fit (RMSEA < 0.05) = 0.031

Expected Cross-Validation Index (ECVI) = 0.26
90 Percent Confidence Interval for ECVI = (0.22 ; 0.33)
ECVI for Saturated Model = 0.22
ECVI for Independence Model = 2.74

Chi-Square for Independence Model with 21 Degrees of Freedom = 681.22
Independence AIC = 695.22
Model AIC = 65.41
Saturated AIC = 56.00
Independence CAIC = 727.01

Model CAIC = 165.32
Saturated CAIC = 183.16

Normed Fit Index (NFI) = 0.97
Non-Normed Fit Index (NNFI) = 0.92
Parsimony Normed Fit Index (PNFI) = 0.28
Comparative Fit Index (CFI) = 0.98
Incremental Fit Index (IFI) = 0.98
Relative Fit Index (RFI) = 0.89

Critical N (CN) = 200.41

Root Mean Square Residual (RMR) = 0.065
Standardized RMR = 0.055
Goodness of Fit Index (GFI) = 0.95
Adjusted Goodness of Fit Index (AGFI) = 0.77
Parsimony Goodness of Fit Index (PGFI) = 0.20

TI MODEL GABUNGAN FIX

Modification Indices and Expected Change

Modification Indices for LAMBDA-Y

| | EL | ES | ET |
|---|---|---|---|
| EL | - - | - - | - - |
| ES | 0.02 | - - | - - |
| ET | - - | - - | - - |

Expected Change for LAMBDA-Y

| | EL | ES | ET |
|---|---|---|---|
| EL | - - | - - | - - |
| ES | 0.00 | - - | - - |
| ET | - - | - - | - - |

No Non-Zero Modification Indices for LAMBDA-X

Modification Indices for BETA

| | EL | ES | ET |
|---|---|---|---|
| EL | - - | - - | - - |
| ES | 0.01 | - - | - - |
| ET | - - | - - | - - |

Expected Change for BETA

| | EL | ES | ET |
|---|---|---|---|
| EL | - - | - - | - - |
| ES | 0.00 | - - | - - |
| ET | - - | - - | - - |

Modification Indices for GAMMA

| | PDT | WSD | POS | POP |
|---|---|---|---|---|
| EL | 3.44 | - - | - - | 0.15 |
| ES | - - | - - | - - | - - |
| ET | 1.00 | - - | - - | - - |

Expected Change for GAMMA

| | PDT | WSD | POS | POP |
|---|---|---|---|---|
| EL | 2.79 | - - | - - | -0.52 |
| ES | - - | - - | - - | - - |
| ET | 0.17 | - - | - - | - - |

No Non-Zero Modification Indices for PHI

No Non-Zero Modification Indices for PSI

Modification Indices for THETA-EPS
Note: This matrix is diagonal.

| EL | ES | ET |
|---|---|---|
| - - | - - | 0.00 |

Expected Change for THETA-EPS
Note: This matrix is diagonal.

| EL | ES | ET |
|---|---|---|
| - - | - - | 0.01 |

Modification Indices for THETA-DELTA-EPS

| | EL | ES | ET |
|---|---|---|---|
| PDT | 2.91 | - - | 0.64 |
| WSD | - - | 0.45 | - - |
| POS | - - | - - | - - |
| POP | 3.07 | 12.40 | - - |

Expected Change for THETA-DELTA-EPS

| | EL | ES | ET |
|---|---|---|---|
| PDT | 0.11 | - - | 0.04 |
| WSD | - - | 0.03 | - - |
| POS | - - | - - | - - |
| POP | 0.13 | 0.21 | - - |

Modification Indices for THETA-DELTA
Note: This matrix is diagonal.

| PDT | WSD | POS | POP |
|---|---|---|---|
| 0.00 | - - | - - | - - |

Expected Change for THETA-DELTA
Note: This matrix is diagonal.

| PDT | WSD | POS | POP |
|---|---|---|---|
| 0.00 | - - | - - | - - |

Maximum Modification Index is 12.40 for Element ( 4, 2) of THETA DELTA-EPSILON

TI MODEL GABUNGAN FIX

Total and Indirect Effects

Total Effects of KSI on ETA

| | PDT | WSD | POS | POP |
|---|---|---|---|---|
| EL | 0.22 | 9.31 | 0.04 | -0.38 |
| | (0.64) | (1.19) | (0.21) | (0.61) |
| | 0.34 | 7.79 | 0.17 | -0.63 |
| ES | 0.08 | 0.74 | - - | - - |
| | (0.22) | (0.14) | | |
| | 0.35 | 5.33 | | |
| ET | 0.00 | 0.24 | 0.04 | -0.36 |
| | (0.01) | (0.24) | (0.20) | (0.23) |
| | 0.20 | 1.03 | 0.18 | -1.61 |

Indirect Effects of KSI on ETA

| | PDT | WSD | POS | POP |
|---|---|---|---|---|
| EL | 0.22 | 2.38 | 0.04 | -0.38 |
| | (0.64) | (0.93) | (0.21) | (0.61) |
| | 0.34 | 2.56 | 0.17 | -0.63 |
| ES | - - | - - | - - | - - |
| ET | 0.00 | 0.02 | - - | - - |
| | (0.01) | (0.07) | | |
| | 0.20 | 0.25 | | |

Total Effects of ETA on ETA

| | EL | ES | ET |
|---|---|---|---|
| EL | - - | 2.88 | 1.05 |
| | | (0.88) | (1.49) |
| | | 3.28 | 0.71 |
| ES | - - | - - | - - |
| ET | - - | 0.02 | - - |
| | | (0.09) | |
| | | 0.25 | |

Largest Eigenvalue of B*B' (Stability Index) is 9.260

Indirect Effects of ETA on ETA

| | EL | ES | ET |
|---|---|---|---|
| EL | - - | 0.02 | - - |
| | | (0.10) | |
| | | 0.23 | |
| ES | - - | - - | - - |
| ET | - - | - - | - - |

Total Effects of ETA on Y

| | EL | ES | ET |
|---|---|---|---|
| EL | 0.12 | 0.35 | 0.13 |
| | | (0.11) | (0.18) |
| | | 3.28 | 0.71 |
| ES | - - | 0.95 | - - |
| ET | - - | 0.02 | 0.81 |
| | | (0.07) | |
| | | 0.25 | |

Indirect Effects of ETA on Y

| | EL | ES | ET |
|---|---|---|---|
| EL | - - | 0.35 | 0.13 |
| | | (0.11) | (0.18) |
| | | 3.28 | 0.71 |
| ES | - - | - - | - - |
| ET | - - | 0.02 | - - |
| | | (0.07) | |
| | | 0.25 | |

Total Effects of KSI on Y

| | PDT | WSD | POS | POP |
|---|---|---|---|---|
| EL | 0.03 | 1.13 | 0.00 | -0.05 |
| | (0.08) | (0.14) | (0.03) | (0.07) |
| | 0.34 | 7.79 | 0.17 | -0.63 |
| ES | 0.07 | 0.70 | - - | - - |
| | (0.21) | (0.13) | | |
| | 0.35 | 5.33 | | |
| ET | 0.00 | 0.20 | 0.03 | -0.29 |
| | (0.01) | (0.19) | (0.16) | (0.18) |
| | 0.20 | 1.03 | 0.18 | -1.61 |

Time used: 0.031 Seconds

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