Mplus VERSION 7
MUTHEN & MUTHEN
12/29/2023   8:17 PM

INPUT INSTRUCTIONS

  TITLE: IES: MIMIC.

  DATA: FILE = IES MIMIC.dat;

  VARIABLE:
  NAMES = Dum_JK Dum_Rlg Dum_Ets Dum_SMhs Dum_SPT Dum_CYoS
  BFL_1 BFL_2 BFL_3 BFL_4
  IRX_1 IRX_2 IRX_3 IRX_4 IRX_5
  IRS_1 IRS_2 IRS_3
  MSS_1 MSS_2 MSS_3
  IMT_1 IMT_2 IMT_3
  IMM_1 IMM_2;

  USEVARIABLES =
  BFL_1-BFL_3
  IRX_1-IRX_5
  IRS_1-IRS_3
  MSS_1-MSS_3
  IMT_1 IMT_2
  IMM_1 IMM_2
  Dum_JK Dum_Rlg Dum_Ets Dum_SMhs Dum_SPT mhslv;

  DEFINE:
  mhslv=0; if Dum_CYoS>2 then mhslv=1;

  ANALYSIS: ESTIMATOR = MLR;

  MODEL:

  BFL BY BFL_1-BFL_3;
  IRX BY IRX_1-IRX_5;
  IRS BY IRS_1-IRS_3;
  MSS BY MSS_1-MSS_3;
  IMT BY IMT_1 IMT_2;
  IMM BY IMM_1 IMM_2;

  !MIMIC
  BFL on Dum_JK Dum_Rlg Dum_Ets Dum_SMhs Dum_SPT mhslv;
  IRX on Dum_JK Dum_Rlg Dum_Ets Dum_SMhs Dum_SPT mhslv;
  IRS on Dum_JK Dum_Rlg Dum_Ets Dum_SMhs Dum_SPT mhslv;
  MSS on Dum_JK Dum_Rlg Dum_Ets Dum_SMhs Dum_SPT mhslv;
  IMT on Dum_JK Dum_Rlg Dum_Ets Dum_SMhs Dum_SPT mhslv;
  IMM on Dum_JK Dum_Rlg Dum_Ets Dum_SMhs Dum_SPT mhslv;

  OUTPUT: TECH4 STDYX MODINDICES(ALL);

INPUT READING TERMINATED NORMALLY

IES: MIMIC.

SUMMARY OF ANALYSIS

Number of groups   1
Number of observations   589

```
Number of dependent variables                                    18
Number of independent variables                                   6
Number of continuous latent variables                             6

Observed dependent variables

  Continuous
   BFL_1       BFL_2       BFL_3       IRX_1       IRX_2       IRX_3
   IRX_4       IRX_5       IRS_1       IRS_2       IRS_3       MSS_1
   MSS_2       MSS_3       IMT_1       IMT_2       IMM_1       IMM_2

Observed independent variables
   DUM_JK      DUM_RLG     DUM_ETS     DUM_SMHS    DUM_SPT     MHSLV

Continuous latent variables
   BFL         IRX         IRS         MSS         IMT         IMM


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

Input data file(s)
  IES MIMIC.dat

Input data format  FREE



THE MODEL ESTIMATION TERMINATED NORMALLY

     WARNING:  THE LATENT VARIABLE COVARIANCE MATRIX (PSI) IS NOT POSITIVE
     DEFINITE.  THIS COULD INDICATE A NEGATIVE VARIANCE/RESIDUAL VARIANCE FOR A
     LATENT VARIABLE, A CORRELATION GREATER OR EQUAL TO ONE BETWEEN TWO LATENT
     VARIABLES, OR A LINEAR DEPENDENCY AMONG MORE THAN TWO LATENT VARIABLES.
     CHECK THE TECH4 OUTPUT FOR MORE INFORMATION.
     PROBLEM INVOLVING VARIABLE IMM.



MODEL FIT INFORMATION

Number of Free Parameters                       105

Loglikelihood

        H0 Value                        -12093.173
        H0 Scaling Correction Factor       1.2456
          for MLR
        H1 Value                        -11876.373
        H1 Scaling Correction Factor       1.2104
          for MLR

Information Criteria

        Akaike (AIC)                     24396.346
        Bayesian (BIC)                   24856.081
        Sample-Size Adjusted BIC         24522.741
          (n* = (n + 2) / 24)
```

Chi-Square Test of Model Fit

```
            Value                           364.017*
            Degrees of Freedom                  192
            P-Value                          0.0000
            Scaling Correction Factor        1.1911
              for MLR
```

* 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                          0.039
            90 Percent C.I.                   0.033  0.045
            Probability RMSEA <= .05          0.999
```

CFI/TLI

```
            CFI                               0.908
            TLI                               0.875
```

Chi-Square Test of Model Fit for the Baseline Model

```
            Value                          2131.689
            Degrees of Freedom                  261
            P-Value                          0.0000
```

SRMR (Standardized Root Mean Square Residual)

```
            Value                             0.041
```

MODEL RESULTS

	Estimate	S.E.	Est./S.E.	Two-Tailed P-Value
BFL BY				
BFL_1	1.000	0.000	999.000	999.000
BFL_2	1.263	0.189	6.684	0.000
BFL_3	1.265	0.191	6.633	0.000
IRX BY				
IRX_1	1.000	0.000	999.000	999.000
IRX_2	1.282	0.144	8.920	0.000
IRX_3	1.426	0.165	8.628	0.000
IRX_4	1.172	0.147	7.975	0.000
IRX_5	0.970	0.163	5.965	0.000
IRS BY				
IRS_1	1.000	0.000	999.000	999.000
IRS_2	1.404	0.307	4.574	0.000
IRS_3	1.115	0.268	4.153	0.000
MSS BY				
MSS_1	1.000	0.000	999.000	999.000
MSS_2	0.700	0.078	9.015	0.000
MSS_3	0.649	0.071	9.117	0.000
IMT BY				

```
    IMT_1            1.000      0.000    999.000    999.000
    IMT_2            1.283      0.158      8.140      0.000


 IMM      BY
    IMM_1            1.000      0.000    999.000    999.000
    IMM_2            0.830      0.077     10.786      0.000


 BFL      ON
    DUM_JK          -0.031      0.066     -0.471      0.638
    DUM_RLG         -0.209      0.104     -2.011      0.044
    DUM_ETS         -0.075      0.064     -1.167      0.243
    DUM_SMHS        -0.141      0.063     -2.228      0.026
    DUM_SPT          0.040      0.067      0.603      0.547
    MHSLV           -0.037      0.074     -0.501      0.616


 IRX      ON
    DUM_JK           0.166      0.042      3.926      0.000
    DUM_RLG          0.094      0.056      1.670      0.095
    DUM_ETS         -0.013      0.039     -0.342      0.732
    DUM_SMHS         0.106      0.039      2.699      0.007
    DUM_SPT         -0.010      0.042     -0.245      0.807
    MHSLV            0.037      0.044      0.852      0.394


 IRS      ON
    DUM_JK           0.031      0.046      0.686      0.493
    DUM_RLG         -0.101      0.062     -1.630      0.103
    DUM_ETS         -0.025      0.038     -0.649      0.517
    DUM_SMHS         0.051      0.041      1.243      0.214
    DUM_SPT         -0.051      0.042     -1.212      0.225
    MHSLV            0.053      0.048      1.091      0.275


 MSS      ON
    DUM_JK           0.069      0.087      0.794      0.427
    DUM_RLG         -0.278      0.124     -2.248      0.025
    DUM_ETS         -0.114      0.081     -1.413      0.158
    DUM_SMHS        -0.005      0.078     -0.064      0.949
    DUM_SPT         -0.133      0.089     -1.493      0.135
    MHSLV           -0.157      0.097     -1.627      0.104


 IMT      ON
    DUM_JK          -0.002      0.065     -0.030      0.976
    DUM_RLG         -0.138      0.093     -1.488      0.137
    DUM_ETS         -0.027      0.056     -0.482      0.630
    DUM_SMHS        -0.166      0.057     -2.906      0.004
    DUM_SPT         -0.284      0.063     -4.496      0.000
    MHSLV           -0.007      0.071     -0.095      0.924


 IMM      ON
    DUM_JK           0.197      0.063      3.148      0.002
    DUM_RLG          0.166      0.085      1.950      0.051
    DUM_ETS          0.002      0.055      0.034      0.973
    DUM_SMHS         0.052      0.056      0.943      0.346
    DUM_SPT         -0.057      0.060     -0.945      0.344
    MHSLV            0.050      0.067      0.750      0.453


 IRX      WITH
    BFL              0.038      0.016      2.304      0.021


 IRS      WITH
    BFL             -0.006      0.013     -0.435      0.664
    IRX              0.067      0.017      4.025      0.000


 MSS      WITH
    BFL              0.288      0.050      5.785      0.000
```

IRX		0.032	0.021	1.508	0.132
IRS		-0.004	0.018	-0.195	0.845

IMT	WITH				
BFL		0.187	0.043	4.343	0.000
IRX		0.036	0.016	2.196	0.028
IRS		0.010	0.017	0.604	0.546
MSS		0.259	0.041	6.263	0.000

IMM	WITH				
BFL		0.054	0.022	2.428	0.015
IRX		0.158	0.019	8.244	0.000
IRS		0.092	0.025	3.657	0.000
MSS		0.050	0.028	1.760	0.078
IMT		0.053	0.021	2.491	0.013

Intercepts

BFL_1	3.349	0.064	52.361	0.000
BFL_2	2.891	0.077	37.362	0.000
BFL_3	3.114	0.077	40.587	0.000
IRX_1	3.765	0.042	89.899	0.000
IRX_2	3.709	0.051	73.339	0.000
IRX_3	3.467	0.052	66.377	0.000
IRX_4	3.573	0.049	73.199	0.000
IRX_5	3.570	0.042	85.188	0.000
IRS_1	3.773	0.045	84.529	0.000
IRS_2	4.273	0.052	82.356	0.000
IRS_3	4.272	0.045	94.034	0.000
MSS_1	2.934	0.079	37.171	0.000
MSS_2	3.187	0.059	53.579	0.000
MSS_3	2.883	0.053	54.102	0.000
IMT_1	3.332	0.058	57.578	0.000
IMT_2	3.476	0.072	48.261	0.000
IMM_1	3.589	0.053	67.459	0.000
IMM_2	3.626	0.046	78.502	0.000

Residual Variances

BFL_1	0.737	0.062	11.946	0.000
BFL_2	0.612	0.069	8.892	0.000
BFL_3	0.552	0.072	7.662	0.000
IRX_1	0.300	0.032	9.406	0.000
IRX_2	0.317	0.036	8.785	0.000
IRX_3	0.482	0.042	11.388	0.000
IRX_4	0.470	0.042	11.174	0.000
IRX_5	0.441	0.034	12.966	0.000
IRS_1	0.536	0.053	10.062	0.000
IRS_2	0.210	0.041	5.168	0.000
IRS_3	0.243	0.035	6.953	0.000
MSS_1	0.623	0.056	11.120	0.000
MSS_2	0.670	0.046	14.480	0.000
MSS_3	0.531	0.038	14.145	0.000
IMT_1	0.637	0.050	12.858	0.000
IMT_2	0.560	0.060	9.279	0.000
IMM_1	0.307	0.040	7.635	0.000
IMM_2	0.347	0.036	9.703	0.000
BFL	0.308	0.061	5.027	0.000
IRX	0.112	0.025	4.557	0.000
IRS	0.132	0.041	3.192	0.001
MSS	0.444	0.061	7.255	0.000
IMT	0.202	0.046	4.349	0.000
IMM	0.213	0.038	5.654	0.000

STANDARDIZED MODEL RESULTS

STDYX Standardization

	Estimate	S.E.	Est./S.E.	Two-Tailed P-Value
BFL BY				
BFL_1	0.557	0.052	10.811	0.000
BFL_2	0.681	0.046	14.917	0.000
BFL_3	0.700	0.047	14.781	0.000
IRX BY				
IRX_1	0.544	0.052	10.366	0.000
IRX_2	0.629	0.042	14.827	0.000
IRX_3	0.589	0.041	14.435	0.000
IRX_4	0.519	0.047	11.041	0.000
IRX_5	0.460	0.050	9.208	0.000
IRS BY				
IRS_1	0.450	0.067	6.721	0.000
IRS_2	0.749	0.061	12.356	0.000
IRS_3	0.641	0.065	9.892	0.000
MSS BY				
MSS_1	0.662	0.038	17.475	0.000
MSS_2	0.512	0.046	11.102	0.000
MSS_3	0.528	0.045	11.845	0.000
IMT BY				
IMT_1	0.529	0.050	10.657	0.000
IMT_2	0.649	0.048	13.485	0.000
IMM BY				
IMM_1	0.655	0.047	13.862	0.000
IMM_2	0.560	0.051	11.029	0.000
BFL ON				
DUM_JK	-0.024	0.052	-0.466	0.641
DUM_RLG	-0.155	0.072	-2.145	0.032
DUM_ETS	-0.064	0.054	-1.189	0.235
DUM_SMHS	-0.122	0.054	-2.275	0.023
DUM_SPT	0.035	0.057	0.603	0.547
MHSLV	-0.027	0.053	-0.499	0.618
IRX ON				
DUM_JK	0.208	0.048	4.372	0.000
DUM_RLG	0.113	0.067	1.688	0.091
DUM_ETS	-0.018	0.053	-0.342	0.732
DUM_SMHS	0.149	0.052	2.846	0.004
DUM_SPT	-0.014	0.059	-0.245	0.806
MHSLV	0.043	0.051	0.854	0.393
IRS ON				
DUM_JK	0.038	0.057	0.666	0.505
DUM_RLG	-0.117	0.070	-1.660	0.097
DUM_ETS	-0.033	0.050	-0.657	0.511
DUM_SMHS	0.070	0.055	1.265	0.206
DUM_SPT	-0.069	0.055	-1.242	0.214
MHSLV	0.059	0.053	1.121	0.262
MSS ON				
DUM_JK	0.044	0.056	0.798	0.425
DUM_RLG	-0.170	0.076	-2.236	0.025

```
        DUM_ETS            -0.080      0.056     -1.423      0.155
        DUM_SMHS           -0.004      0.056     -0.064      0.949
        DUM_SPT            -0.094      0.063     -1.494      0.135
        MHSLV              -0.093      0.056     -1.663      0.096

 IMT        ON
        DUM_JK             -0.002      0.058     -0.030      0.976
        DUM_RLG            -0.118      0.078     -1.513      0.130
        DUM_ETS            -0.027      0.055     -0.481      0.630
        DUM_SMHS           -0.166      0.056     -2.963      0.003
        DUM_SPT            -0.281      0.065     -4.337      0.000
        MHSLV              -0.006      0.058     -0.095      0.924

 IMM        ON
        DUM_JK              0.183      0.059      3.090      0.002
        DUM_RLG             0.148      0.078      1.890      0.059
        DUM_ETS             0.002      0.056      0.034      0.973
        DUM_SMHS            0.055      0.058      0.945      0.345
        DUM_SPT            -0.058      0.062     -0.944      0.345
        MHSLV               0.043      0.058      0.749      0.454

 IRX        WITH
        BFL                 0.204      0.074      2.769      0.006

 IRS        WITH
        BFL                -0.029      0.066     -0.438      0.662
        IRX                 0.551      0.066      8.372      0.000

 MSS        WITH
        BFL                 0.778      0.065     11.924      0.000
        IRX                 0.142      0.092      1.540      0.124
        IRS                -0.015      0.075     -0.194      0.846

 IMT        WITH
        BFL                 0.750      0.092      8.154      0.000
        IRX                 0.241      0.114      2.118      0.034
        IRS                 0.064      0.105      0.612      0.540
        MSS                 0.867      0.083     10.391      0.000

 IMM        WITH
        BFL                 0.212      0.081      2.599      0.009
        IRX                 1.023      0.064     15.962      0.000
        IRS                 0.550      0.085      6.471      0.000
        MSS                 0.162      0.094      1.730      0.084
        IMT                 0.254      0.107      2.364      0.018

 Intercepts
        BFL_1               3.240      0.098     33.070      0.000
        BFL_2               2.706      0.079     34.161      0.000
        BFL_3               2.991      0.088     33.938      0.000
        IRX_1               5.768      0.253     22.771      0.000
        IRX_2               5.125      0.221     23.193      0.000
        IRX_3               4.036      0.148     27.313      0.000
        IRX_4               4.455      0.181     24.581      0.000
        IRX_5               4.774      0.198     24.102      0.000
        IRS_1               4.603      0.187     24.602      0.000
        IRS_2               6.183      0.319     19.408      0.000
        IRS_3               6.661      0.351     18.960      0.000
        MSS_1               2.786      0.090     31.118      0.000
        MSS_2               3.344      0.096     34.866      0.000
        MSS_3               3.361      0.095     35.443      0.000
        IMT_1               3.541      0.101     34.974      0.000
        IMT_2               3.533      0.102     34.503      0.000
        IMM_1               4.898      0.206     23.812      0.000
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    IMM_2              5.101       0.198      25.817       0.000

  Residual Variances
    BFL_1              0.689       0.057      11.997       0.000
    BFL_2              0.536       0.062       8.610       0.000
    BFL_3              0.510       0.066       7.685       0.000
    IRX_1              0.704       0.057      12.336       0.000
    IRX_2              0.604       0.053      11.331       0.000
    IRX_3              0.653       0.048      13.566       0.000
    IRX_4              0.731       0.049      15.001       0.000
    IRX_5              0.788       0.046      17.116       0.000
    IRS_1              0.798       0.060      13.264       0.000
    IRS_2              0.439       0.091       4.844       0.000
    IRS_3              0.590       0.083       7.107       0.000
    MSS_1              0.562       0.050      11.206       0.000
    MSS_2              0.738       0.047      15.615       0.000
    MSS_3              0.721       0.047      15.338       0.000
    IMT_1              0.720       0.053      13.697       0.000
    IMT_2              0.579       0.063       9.256       0.000
    IMM_1              0.571       0.062       9.225       0.000
    IMM_2              0.686       0.057      12.069       0.000
    BFL                0.928       0.027      34.038       0.000
    IRX                0.889       0.031      28.298       0.000
    IRS                0.975       0.018      55.537       0.000
    MSS                0.914       0.033      28.052       0.000
    IMT                0.813       0.051      15.874       0.000
    IMM                0.924       0.036      25.930       0.000


R-SQUARE

    Observed                                   Two-Tailed
    Variable        Estimate       S.E.    Est./S.E.    P-Value

    BFL_1              0.311       0.057       5.406       0.000
    BFL_2              0.464       0.062       7.459       0.000
    BFL_3              0.490       0.066       7.390       0.000
    IRX_1              0.296       0.057       5.183       0.000
    IRX_2              0.396       0.053       7.414       0.000
    IRX_3              0.347       0.048       7.217       0.000
    IRX_4              0.269       0.049       5.520       0.000
    IRX_5              0.212       0.046       4.604       0.000
    IRS_1              0.202       0.060       3.360       0.001
    IRS_2              0.561       0.091       6.178       0.000
    IRS_3              0.410       0.083       4.946       0.000
    MSS_1              0.438       0.050       8.737       0.000
    MSS_2              0.262       0.047       5.551       0.000
    MSS_3              0.279       0.047       5.923       0.000
    IMT_1              0.280       0.053       5.329       0.000
    IMT_2              0.421       0.063       6.742       0.000
    IMM_1              0.429       0.062       6.931       0.000
    IMM_2              0.314       0.057       5.514       0.000

    Latent                                     Two-Tailed
    Variable        Estimate       S.E.    Est./S.E.    P-Value

    BFL                0.072       0.027       2.642       0.008
    IRX                0.111       0.031       3.520       0.000
    IRS                0.025       0.018       1.408       0.159
    MSS                0.086       0.033       2.643       0.008
    IMT                0.187       0.051       3.655       0.000
    IMM                0.076       0.036       2.141       0.032
```

QUALITY OF NUMERICAL RESULTS

```
     Condition Number for the Information Matrix          0.381E-03
        (ratio of smallest to largest eigenvalue)
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MODEL MODIFICATION INDICES

Minimum M.I. value for printing the modification index   10.000

		M.I.	E.P.C.	Std E.P.C.	StdYX E.P.C.
ON/BY Statements					
BFL_1	ON IRX /				
IRX	BY BFL_1	12.661	0.485	0.172	0.167
BFL_1	ON MSS /				
MSS	BY BFL_1	23.245	0.834	0.581	0.562
BFL_1	ON IMT /				
IMT	BY BFL_1	23.953	0.996	0.496	0.480
BFL_1	ON IMM /				
IMM	BY BFL_1	13.626	0.374	0.179	0.174
BFL_2	ON MSS /				
MSS	BY BFL_2	11.871	-0.681	-0.475	-0.444
BFL_2	ON IMT /				
IMT	BY BFL_2	16.784	-0.927	-0.462	-0.432
IMT_1	ON MSS /				
MSS	BY IMT_1	11.291	0.743	0.518	0.551
IMT_2	ON MSS /				
MSS	BY IMT_2	11.294	-0.953	-0.665	-0.676
ON Statements					
BFL	ON BFL_1	45.218	-0.316	-0.549	-0.567
BFL	ON BFL_2	24.432	0.353	0.612	0.654
BFL	ON IMM_1	10.451	0.241	0.418	0.306
BFL	ON IMM_2	10.450	-0.177	-0.307	-0.218
IRX	ON IRX_5	14.032	-0.103	-0.289	-0.216
IRS	ON IRS_1	17.707	-0.194	-0.527	-0.432
MSS	ON BFL_1	10.071	0.143	0.205	0.212
BFL_1	ON BFL_3	24.437	-0.391	-0.391	-0.394
BFL_1	ON IRX_4	13.160	0.189	0.189	0.147
BFL_2	ON BFL_3	45.209	0.674	0.674	0.656
BFL_3	ON BFL_1	24.439	-0.293	-0.293	-0.291
BFL_3	ON BFL_2	45.207	0.608	0.608	0.624
IRX_1	ON IRX_2	14.238	0.202	0.202	0.224
IRX_2	ON IRX_1	14.239	0.213	0.213	0.192
IRS_2	ON IRX_4	12.027	-0.129	-0.129	-0.150
IRS_2	ON IRS_3	17.702	0.672	0.672	0.623
IRS_2	ON IMT_2	10.384	0.099	0.099	0.141
IRS_3	ON IRS_2	17.703	0.776	0.776	0.836
IRS_3	ON IMT_2	15.884	-0.107	-0.107	-0.164
IMT_2	ON IRX_2	12.156	0.220	0.220	0.162
WITH Statements					
BFL_1	WITH BFL	45.217	-0.233	-0.420	-0.489
BFL_1	WITH MSS	10.071	0.105	0.158	0.184
BFL_2	WITH BFL	24.433	0.216	0.389	0.497
BFL_3	WITH BFL_1	24.438	-0.216	-0.216	-0.339
BFL_3	WITH BFL_2	45.209	0.372	0.372	0.640
IRX_2	WITH IRX_1	14.238	0.064	0.064	0.207
IRX_5	WITH IRX	14.032	-0.045	-0.135	-0.203
IRS_1	WITH IRS	17.707	-0.104	-0.286	-0.391

```
IRS_3    WITH IRS_2          17.704    0.163     0.163        0.722
IMT_2    WITH IRS_3          12.102   -0.074    -0.074       -0.202
IMM_1    WITH BFL            10.451    0.074     0.133        0.240
IMM_2    WITH BFL            10.451   -0.061    -0.110       -0.187
```

TECHNICAL 4 OUTPUT

ESTIMATES DERIVED FROM THE MODEL

ESTIMATED MEANS FOR THE LATENT VARIABLES

	BFL	IRX	IRS	MSS	IMT
1	-0.168	0.118	-0.014	-0.209	-0.256

ESTIMATED MEANS FOR THE LATENT VARIABLES

	IMM	BFL_1	BFL_2	BFL_3	IRX_1
1	0.109	3.182	2.679	2.902	3.883

ESTIMATED MEANS FOR THE LATENT VARIABLES

	IRX_2	IRX_3	IRX_4	IRX_5	IRS_1
1	3.861	3.635	3.711	3.684	3.759

ESTIMATED MEANS FOR THE LATENT VARIABLES

	IRS_2	IRS_3	MSS_1	MSS_2	MSS_3
1	4.253	4.256	2.725	3.041	2.747

ESTIMATED MEANS FOR THE LATENT VARIABLES

	IMT_1	IMT_2	IMM_1	IMM_2	DUM_JK
1	3.076	3.148	3.698	3.716	0.273

ESTIMATED MEANS FOR THE LATENT VARIABLES

	DUM_RLG	DUM_ETS	DUM_SMHS	DUM_SPT	MHSLV
1	0.239	0.606	0.514	0.419	0.217

ESTIMATED COVARIANCE MATRIX FOR THE LATENT VARIABLES

	BFL	IRX	IRS	MSS	IMT
BFL	0.332				
IRX	0.023	0.126			
IRS	-0.003	0.067	0.136		
MSS	0.312	0.019	0.004	0.486	
IMT	0.211	0.020	0.018	0.297	0.248
IMM	0.038	0.173	0.091	0.035	0.038
BFL_1	0.332	0.023	-0.003	0.312	0.211
BFL_2	0.419	0.029	-0.004	0.394	0.266
BFL_3	0.420	0.029	-0.004	0.395	0.267
IRX_1	0.023	0.126	0.067	0.019	0.020
IRX_2	0.030	0.162	0.085	0.024	0.026
IRX_3	0.033	0.180	0.095	0.027	0.029
IRX_4	0.027	0.148	0.078	0.022	0.024

IRX_5	0.022	0.122	0.065	0.018	0.020
IRS_1	-0.003	0.067	0.136	0.004	0.018
IRS_2	-0.004	0.094	0.191	0.006	0.025
IRS_3	-0.003	0.074	0.151	0.005	0.020
MSS_1	0.312	0.019	0.004	0.486	0.297
MSS_2	0.219	0.013	0.003	0.340	0.208
MSS_3	0.203	0.012	0.003	0.316	0.193
IMT_1	0.211	0.020	0.018	0.297	0.248
IMT_2	0.271	0.026	0.023	0.381	0.318
IMM_1	0.038	0.173	0.091	0.035	0.038
IMM_2	0.032	0.144	0.076	0.029	0.031
DUM_JK	-0.020	0.040	0.003	-0.006	-0.018
DUM_RLG	-0.054	0.032	-0.018	-0.076	-0.072
DUM_ETS	-0.046	0.017	-0.007	-0.048	-0.028
DUM_SMHS	-0.061	0.039	0.002	-0.040	-0.064
DUM_SPT	-0.017	0.015	-0.019	-0.066	-0.088
MHSLV	-0.017	0.014	0.004	-0.043	-0.021

ESTIMATED COVARIANCE MATRIX FOR THE LATENT VARIABLES

	IMM	BFL_1	BFL_2	BFL_3	IRX_1
IMM	0.230				
BFL_1	0.038	1.069			
BFL_2	0.048	0.419	1.142		
BFL_3	0.048	0.420	0.531	1.084	
IRX_1	0.173	0.023	0.029	0.029	0.426
IRX_2	0.222	0.030	0.038	0.038	0.162
IRX_3	0.247	0.033	0.042	0.042	0.180
IRX_4	0.203	0.027	0.034	0.034	0.148
IRX_5	0.168	0.022	0.028	0.028	0.122
IRS_1	0.091	-0.003	-0.004	-0.004	0.067
IRS_2	0.128	-0.004	-0.005	-0.005	0.094
IRS_3	0.102	-0.003	-0.004	-0.004	0.074
MSS_1	0.035	0.312	0.394	0.395	0.019
MSS_2	0.025	0.219	0.276	0.276	0.013
MSS_3	0.023	0.203	0.256	0.256	0.012
IMT_1	0.038	0.211	0.266	0.267	0.020
IMT_2	0.048	0.271	0.342	0.342	0.026
IMM_1	0.230	0.038	0.048	0.048	0.173
IMM_2	0.191	0.032	0.040	0.040	0.144
DUM_JK	0.047	-0.020	-0.025	-0.025	0.040
DUM_RLG	0.038	-0.054	-0.069	-0.069	0.032
DUM_ETS	0.022	-0.046	-0.058	-0.058	0.017
DUM_SMHS	0.033	-0.061	-0.077	-0.077	0.039
DUM_SPT	0.011	-0.017	-0.022	-0.022	0.015
MHSLV	0.017	-0.017	-0.021	-0.021	0.014

ESTIMATED COVARIANCE MATRIX FOR THE LATENT VARIABLES

	IRX_2	IRX_3	IRX_4	IRX_5	IRS_1
IRX_2	0.524				
IRX_3	0.230	0.738			
IRX_4	0.189	0.211	0.643		
IRX_5	0.157	0.174	0.143	0.559	
IRS_1	0.085	0.095	0.078	0.065	0.672
IRS_2	0.120	0.133	0.110	0.091	0.191
IRS_3	0.095	0.106	0.087	0.072	0.151
MSS_1	0.024	0.027	0.022	0.018	0.004
MSS_2	0.017	0.019	0.016	0.013	0.003
MSS_3	0.016	0.018	0.014	0.012	0.003
IMT_1	0.026	0.029	0.024	0.020	0.018
IMT_2	0.033	0.037	0.030	0.025	0.023

```
    IMM_1          0.222        0.247        0.203        0.168        0.091
    IMM_2          0.184        0.205        0.168        0.139        0.076
    DUM_JK         0.051        0.057        0.047        0.039        0.003
    DUM_RLG        0.042        0.046        0.038        0.031       -0.018
    DUM_ETS        0.021        0.024        0.019        0.016       -0.007
    DUM_SMHS       0.050        0.056        0.046        0.038        0.002
    DUM_SPT        0.020        0.022        0.018        0.015       -0.019
    MHSLV          0.018        0.020        0.016        0.014        0.004
```

ESTIMATED COVARIANCE MATRIX FOR THE LATENT VARIABLES

```
                 IRS_2          IRS_3          MSS_1          MSS_2          MSS_3
                _____        _____        _____        _____        _____
    IRS_2          0.478
    IRS_3          0.213        0.411
    MSS_1          0.006        0.005        1.109
    MSS_2          0.004        0.003        0.340        0.908
    MSS_3          0.004        0.003        0.316        0.221        0.736
    IMT_1          0.025        0.020        0.297        0.208        0.193
    IMT_2          0.032        0.026        0.381        0.266        0.247
    IMM_1          0.128        0.102        0.035        0.025        0.023
    IMM_2          0.106        0.084        0.029        0.021        0.019
    DUM_JK         0.004        0.003       -0.006       -0.004       -0.004
    DUM_RLG       -0.025       -0.020       -0.076       -0.053       -0.049
    DUM_ETS       -0.010       -0.008       -0.048       -0.034       -0.031
    DUM_SMHS       0.003        0.002       -0.040       -0.028       -0.026
    DUM_SPT       -0.026       -0.021       -0.066       -0.046       -0.043
    MHSLV          0.006        0.005       -0.043       -0.030       -0.028
```

ESTIMATED COVARIANCE MATRIX FOR THE LATENT VARIABLES

```
                 IMT_1          IMT_2          IMM_1          IMM_2          DUM_JK
                _____        _____        _____        _____        _____
    IMT_1          0.886
    IMT_2          0.318        0.968
    IMM_1          0.038        0.048        0.537
    IMM_2          0.031        0.040        0.191        0.505
    DUM_JK        -0.018       -0.023        0.047        0.039        0.199
    DUM_RLG       -0.072       -0.092        0.038        0.032        0.038
    DUM_ETS       -0.028       -0.036        0.022        0.018        0.023
    DUM_SMHS      -0.064       -0.082        0.033        0.028        0.029
    DUM_SPT       -0.088       -0.113        0.011        0.009        0.023
    MHSLV         -0.021       -0.027        0.017        0.014        0.019
```

ESTIMATED COVARIANCE MATRIX FOR THE LATENT VARIABLES

```
                 DUM_RLG        DUM_ETS        DUM_SMHS       DUM_SPT        MHSLV
                _____        _____        _____        _____        _____
    DUM_RLG        0.182
    DUM_ETS        0.071        0.239
    DUM_SMHS       0.091        0.080        0.250
    DUM_SPT        0.103       -0.005        0.027        0.243
    MHSLV          0.035        0.019        0.019        0.041        0.170
```

ESTIMATED CORRELATION MATRIX FOR THE LATENT VARIABLES

```
                 BFL            IRX            IRS            MSS            IMT
                _____        _____        _____        _____        _____
    BFL            1.000
    IRX            0.113        1.000
    IRS           -0.014        0.509        1.000
    MSS            0.777        0.077        0.016        1.000
    IMT            0.735        0.114        0.098        0.855        1.000
    IMM            0.138        1.016        0.516        0.106        0.158
```

BFL_1	0.557	0.063	-0.008	0.433	0.410
BFL_2	0.681	0.077	-0.009	0.529	0.501
BFL_3	0.700	0.079	-0.010	0.544	0.515
IRX_1	0.062	0.544	0.277	0.042	0.062
IRX_2	0.071	0.629	0.320	0.048	0.072
IRX_3	0.067	0.589	0.300	0.045	0.067
IRX_4	0.059	0.519	0.264	0.040	0.059
IRX_5	0.052	0.460	0.234	0.035	0.053
IRS_1	-0.006	0.229	0.450	0.007	0.044
IRS_2	-0.010	0.381	0.749	0.012	0.073
IRS_3	-0.009	0.326	0.641	0.010	0.063
MSS_1	0.514	0.051	0.011	0.662	0.566
MSS_2	0.398	0.039	0.008	0.512	0.438
MSS_3	0.410	0.041	0.009	0.528	0.451
IMT_1	0.389	0.061	0.052	0.452	0.529
IMT_2	0.477	0.074	0.064	0.555	0.649
IMM_1	0.090	0.666	0.338	0.069	0.103
IMM_2	0.077	0.569	0.289	0.059	0.088
DUM_JK	-0.077	0.251	0.019	-0.018	-0.080
DUM_RLG	-0.221	0.214	-0.113	-0.255	-0.337
DUM_ETS	-0.162	0.095	-0.038	-0.141	-0.117
DUM_SMHS	-0.211	0.221	0.012	-0.116	-0.257
DUM_SPT	-0.061	0.088	-0.102	-0.191	-0.358
MHSLV	-0.070	0.096	0.029	-0.149	-0.104

ESTIMATED CORRELATION MATRIX FOR THE LATENT VARIABLES

	IMM	BFL_1	BFL_2	BFL_3	IRX_1
IMM	1.000				
BFL_1	0.077	1.000			
BFL_2	0.094	0.380	1.000		
BFL_3	0.097	0.390	0.477	1.000	
IRX_1	0.553	0.034	0.042	0.043	1.000
IRX_2	0.639	0.040	0.049	0.050	0.342
IRX_3	0.599	0.037	0.046	0.047	0.321
IRX_4	0.527	0.033	0.040	0.041	0.282
IRX_5	0.468	0.029	0.036	0.037	0.250
IRS_1	0.232	-0.003	-0.004	-0.004	0.125
IRS_2	0.387	-0.006	-0.007	-0.007	0.207
IRS_3	0.331	-0.005	-0.006	-0.006	0.177
MSS_1	0.070	0.287	0.350	0.360	0.028
MSS_2	0.054	0.222	0.271	0.279	0.021
MSS_3	0.056	0.229	0.279	0.287	0.022
IMT_1	0.083	0.217	0.265	0.272	0.033
IMT_2	0.102	0.266	0.325	0.334	0.040
IMM_1	0.655	0.050	0.062	0.063	0.362
IMM_2	0.560	0.043	0.053	0.054	0.310
DUM_JK	0.218	-0.043	-0.052	-0.054	0.137
DUM_RLG	0.188	-0.123	-0.151	-0.155	0.116
DUM_ETS	0.094	-0.090	-0.110	-0.113	0.052
DUM_SMHS	0.140	-0.118	-0.144	-0.148	0.120
DUM_SPT	0.048	-0.034	-0.042	-0.043	0.048
MHSLV	0.084	-0.039	-0.048	-0.049	0.052

ESTIMATED CORRELATION MATRIX FOR THE LATENT VARIABLES

	IRX_2	IRX_3	IRX_4	IRX_5	IRS_1
IRX_2	1.000				
IRX_3	0.371	1.000			
IRX_4	0.326	0.306	1.000		
IRX_5	0.290	0.271	0.239	1.000	
IRS_1	0.144	0.135	0.119	0.105	1.000

IRS_2	0.240	0.225	0.198	0.176	0.337
IRS_3	0.205	0.192	0.169	0.150	0.288
MSS_1	0.032	0.030	0.026	0.023	0.005
MSS_2	0.025	0.023	0.020	0.018	0.004
MSS_3	0.026	0.024	0.021	0.019	0.004
IMT_1	0.038	0.036	0.031	0.028	0.023
IMT_2	0.047	0.044	0.039	0.034	0.029
IMM_1	0.419	0.392	0.345	0.306	0.152
IMM_2	0.358	0.335	0.295	0.262	0.130
DUM_JK	0.158	0.148	0.130	0.116	0.009
DUM_RLG	0.134	0.126	0.111	0.098	-0.051
DUM_ETS	0.060	0.056	0.049	0.044	-0.017
DUM_SMHS	0.139	0.130	0.115	0.102	0.005
DUM_SPT	0.056	0.052	0.046	0.041	-0.046
MHSLV	0.060	0.057	0.050	0.044	0.013

ESTIMATED CORRELATION MATRIX FOR THE LATENT VARIABLES

	IRS_2	IRS_3	MSS_1	MSS_2	MSS_3
IRS_2	1.000				
IRS_3	0.480	1.000			
MSS_1	0.008	0.007	1.000		
MSS_2	0.006	0.005	0.339	1.000	
MSS_3	0.006	0.005	0.349	0.270	1.000
IMT_1	0.039	0.033	0.299	0.232	0.239
IMT_2	0.048	0.041	0.367	0.284	0.293
IMM_1	0.253	0.217	0.046	0.036	0.037
IMM_2	0.217	0.185	0.039	0.030	0.031
DUM_JK	0.014	0.012	-0.012	-0.009	-0.009
DUM_RLG	-0.084	-0.072	-0.168	-0.130	-0.134
DUM_ETS	-0.029	-0.025	-0.094	-0.072	-0.075
DUM_SMHS	0.009	0.008	-0.076	-0.059	-0.061
DUM_SPT	-0.076	-0.065	-0.126	-0.098	-0.101
MHSLV	0.022	0.019	-0.099	-0.076	-0.079

ESTIMATED CORRELATION MATRIX FOR THE LATENT VARIABLES

	IMT_1	IMT_2	IMM_1	IMM_2	DUM_JK
IMT_1	1.000				
IMT_2	0.344	1.000			
IMM_1	0.055	0.067	1.000		
IMM_2	0.047	0.057	0.367	1.000	
DUM_JK	-0.042	-0.052	0.143	0.122	1.000
DUM_RLG	-0.179	-0.219	0.123	0.105	0.200
DUM_ETS	-0.062	-0.076	0.062	0.053	0.105
DUM_SMHS	-0.136	-0.167	0.091	0.078	0.131
DUM_SPT	-0.190	-0.233	0.031	0.027	0.104
MHSLV	-0.055	-0.067	0.055	0.047	0.102

ESTIMATED CORRELATION MATRIX FOR THE LATENT VARIABLES

	DUM_RLG	DUM_ETS	DUM_SMHS	DUM_SPT	MHSLV
DUM_RLG	1.000				
DUM_ETS	0.338	1.000			
DUM_SMHS	0.426	0.329	1.000		
DUM_SPT	0.491	-0.019	0.110	1.000	
MHSLV	0.196	0.096	0.092	0.203	1.000

DIAGRAM INFORMATION

Use View Diagram under the Diagram menu in the Mplus Editor to view the diagram.
If running Mplus from the Mplus Diagrammer, the diagram opens automatically.

Diagram output
  d:\research\pdp 2023\data\mplus\ies\ies mimic.dgm

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