```
Mplus VERSION 8.4 (Mac)
MUTHEN & MUTHEN
01/22/2021  12:55 PM

INPUT INSTRUCTIONS

  TITLE: Measurement Models - School Conn 15
  DATA: FILE = "All_Variables_012021.dat";
  VARIABLE:
  NAMES = ff_id ThreatComp DepComp k6d2ag k6d2ai k6d2d k6d2j k6d2t
k6d2ac k6d2ak k6d2c
       k6d2n k6d2x p6b36 p6b40 p6b52 p6b53 p6b54 p6b68 p6b65 p6b66
k6d2ag_r k6d2ai_r
       k6d2d_r k6d2j_r k6d2t_r k6d2ac_r k6d2ak_r k6d2c_r k6d2n_r
k6d2x_r k6d61a k6d61b
       k6d61c k6d61d k6d61e k6d61f k6d61g k6d61h k6d61i k6d61j k6d61k
k6d61l k6d61m
       k6d2a k6d2p k6d2r k6d2z k6d2ab k6d2aj k6d40 k6d48 k6f63 k6f68
k6f74 p6b35 p6b37
       p6b38 p6b39 p6b41 p6b42 p6b43 p6b44 p6b45 p6b57 p6b59 p6b49
p6b50 p6b51 p6b60
       p6b61 p6b62 p6b63 p6b64 p6b67 k6d2a_r k6d2p_r k6d2r_r k6d2z_r
k6d2ab_r k6d2aj_r
       k6d40_r k6d48_r k6f63_r k6f68_r k6f74_r k6d2b k6d2e k6d2f k6d2g
k6d2h k6d2i
       k6d2k k6d2l k6d2m k6d2o k6d2s k6d2u k6d2v k6d2w k6d2y k6d2aa
k6d2ad k6d2ae
       k6d2af k6d2ah k6d2b_r k6d2e_r k6d2f_r k6d2g_r k6d2h_r k6d2i_r
k6d2k_r k6d2l_r
       k6d2m_r k6d2o_r k6d2s_r k6d2u_r k6d2v_r k6d2w_r k6d2y_r
k6d2aa_r k6d2ad_r
       k6d2ae_r k6d2af_r k6d2ah_r k5e1a k5e1b k5e1c k5e1d k6b1a k6b1b
k6b1c k6b1d
       k6b1a_r k6b1b_r k6b1c_r k6b1d_r p5q3m p5q3ab p5q3ac p5q3ad
p5q3ae p5q3af p5q3ah
       p5q3ar p5q3av p5q3ax p5q3bq p5q3ck p5q3db p5q3e p5q3ao p5q3bk
p5q3bo p5q3bu
       p5q3cu p5q3cv p5q3da p5q3as p5q3au p5q3aw p5q3az p5q3bb1
p5q3bb2 p5q3bb3
       p5q3bb4 p5q3bb5 p5q3bb6 p5q3bb7 p5q3b p5q3x p5q3aa p5q3al
p5q3ap p5q3bi p5q3bm
       p5q3br p5q3bs p5q3bz p5q3ca p5q3cj p5q3cp p5q3cr p5q3ct p5q3cx
p5q3cy p5q3c
       p5q3o p5q3r p5q3s p5q3t p5q3u p5q3v p5q3aj p5q3bc p5q3bn p5q3cf
p5q3cg p5q3ch
       p5q3ci p5q3cn p5q3co p5q3cq p5q3cw povco_avg Race_AA Race_C
Race_L ck6ethrace
       cm1bsex m1city;

  USEVARIABLES =
```

```
  !ThreatComp DepComp ! Not used in measurement model.
  ! SC15
   k6b1a_r k6b1b_r k6b1c_r k6b1d_r
  ! SC9
  ! k5e1a k5e1b k5e1c k5e1d
  ! Anxiety
  ! k6d2ag_r k6d2ai_r k6d2d_r k6d2j_r k6d2t_r
  ! Depression
  ! k6d2ac_r k6d2ak_r k6d2c_r k6d2n_r k6d2x_r
  ! Internalizing CBCL
  !p6b36 p6b40 p6b52 p6b53 p6b54 p6b68 p6b65 p6b66
  ! Delinquency (Reverse Coded)
  ! k6d2a_r k6d2p_r k6d2r_r k6d2z_r k6d2ab_r k6d2aj_r
  ! Impulsivity
  ! k6d61a k6d61b k6d61c k6d61d k6d61e k6d61f k6d61g k6d61h
  ! k6d61i k6d61j k6d61k k6d61l k6d61m
  ! Substance Use (Dichotomous)
  ! k6d40_r k6d48_r k6f63_r k6f68_r k6f74_r
  ! Externalizing CBCl
  !p6b35 p6b37 p6b38 p6b39 p6b41 p6b42 p6b43 p6b44 p6b45 p6b57 p6b59
p6b49 p6b50
  !p6b51 p6b60 p6b61 p6b62 p6b63 p6b64 p6b67
  ! PAF
  ! k6d2b_r k6d2f_r k6d2g_r
  ! k6d2i_r k6d2k_r k6d2l_r k6d2m_r k6d2o_r
  ! k6d2s_r k6d2v_r k6d2w_r k6d2y_r
  ! k6d2aa_r k6d2ae_r k6d2af_r k6d2ah_r
  ;
  ! 9.24.2019 - I am removing te 4 items on the PAF engagement
subscale because
  ! they all have standard factor loadings below 0.3 and qualitatively
seem
  ! to be measuring something different. Those items are: k6d2e,
k6d2h, k6d2u, k6d2ad.

  CATEGORICAL =
  ! SC15
   k6b1a_r k6b1b_r k6b1c_r k6b1d_r
  ! SC9
  ! k5e1a k5e1b k5e1c k5e1d
  ! Anxiety
  ! k6d2ag_r k6d2ai_r k6d2d_r k6d2j_r k6d2t_r
  ! Depression
  ! k6d2ac_r k6d2ak_r k6d2c_r k6d2n_r k6d2x_r
  ! Internalizing CBCL
  !p6b36 p6b40 p6b52 p6b53 p6b54 p6b68 p6b65 p6b66
  ! Delinquency (Reverse Coded)
  ! k6d2a_r k6d2p_r k6d2r_r k6d2z_r k6d2ab_r k6d2aj_r
  ! Impulsivity
  ! k6d61a k6d61b k6d61c k6d61d k6d61e k6d61f k6d61g k6d61h
```

```
  ! k6d61i k6d61j k6d61k k6d61l k6d61m
  ! Substance Use (Dichotomous)
  ! k6d40_r k6d48_r k6f63_r k6f68_r k6f74_r
  ! Externalizing CBCl
  !p6b35 p6b37 p6b38 p6b39 p6b41 p6b42 p6b43 p6b44 p6b45 p6b57 p6b59
p6b49 p6b50
  !p6b51 p6b60 p6b61 p6b62 p6b63 p6b64 p6b67
  ! PAF
  ! k6d2b_r k6d2f_r k6d2g_r
  ! k6d2i_r k6d2k_r k6d2l_r k6d2m_r k6d2o_r
  ! k6d2s_r k6d2v_r k6d2w_r k6d2y_r
  ! k6d2aa_r k6d2ae_r k6d2af_r k6d2ah_r
  ;

  IDVARIABLE = ff_id;
  MISSING=ALL(99);
  cluster = m1city;

  ANALYSIS:
  PROCESSORS=8;
  Type = Complex;

  MODEL:

  ! School Connectedness @ Age 15
   SC15 BY k6b1a_r* k6b1b_r k6b1c_r k6b1d_r;
   SC15 @ 1;

  ! School Connectedness @ Age 9
  ! SC9 BY k5e1a* k5e1b k5e1c k5e1d;
  ! SC9 @ 1;

  ! Internalizing @ Age 15
  ! Internalizing BY k6d2ag_r* k6d2ai_r k6d2d_r k6d2j_r k6d2t_r
  ! k6d2ac_r k6d2ak_r k6d2c_r k6d2n_r k6d2x_r;
  !p6b36 p6b40 p6b52 p6b53 p6b54 p6b68 p6b65 p6b66

  ! Internalizing @ 1;

  ! Externalizing @ Age 15 (Multi-informant)
  ! EXTERN BY k6d2a_r* k6d2p_r k6d2r_r k6d2z_r k6d2ab_r k6d2aj_r
  ! k6d61a k6d61b k6d61c k6d61d k6d61e k6d61f k6d61g k6d61h
  ! k6d61i k6d61j k6d61k k6d61l k6d61m
  ! k6d40_r k6d48_r k6f63_r k6f68_r k6f74_r;
  !p6b35 p6b37 p6b38
  !p6b39 p6b41 p6b42 p6b43 p6b44 p6b45 p6b57 p6b59 p6b49 p6b50
  !p6b51 p6b60 p6b61 p6b62 p6b63 p6b64 p6b67

  ! EXTERN @ 1;
```

```
  ! PAF @ Age 15
  ! PAF BY k6d2b_r* k6d2f_r k6d2g_r
  ! k6d2i_r k6d2k_r k6d2l_r k6d2m_r k6d2o_r
  ! k6d2s_r k6d2v_r k6d2w_r k6d2y_r
  ! k6d2aa_r k6d2ae_r k6d2af_r k6d2ah_r;
  ! PAF @ 1;



  OUTPUT: modindices (ALL) standardized sampstat;

  SAVEDATA:
      FILE IS CFA_FactorScores_SC15_012122.txt;
      save = fscores;



*** WARNING
  Data set contains unknown or missing values for GROUPING,
  PATTERN, COHORT, CLUSTER and/or STRATIFICATION variables.
  Number of cases with unknown or missing values:  1
*** WARNING
  Data set contains cases with missing on all variables.
  These cases were not included in the analysis.
  Number of cases with missing on all variables:  1510
   2 WARNING(S) FOUND IN THE INPUT INSTRUCTIONS



Measurement Models - School Conn 15

SUMMARY OF ANALYSIS

Number of groups                                                 1
Number of observations                                        3387

Number of dependent variables                                    4
Number of independent variables                                  0
Number of continuous latent variables                            1

Observed dependent variables

  Binary and ordered categorical (ordinal)
   K6B1A_R     K6B1B_R     K6B1C_R     K6B1D_R

Continuous latent variables
   SC15

Variables with special functions
```

```
  Cluster variable      M1CITY
  ID variable           FF_ID

Estimator                                                       WLSMV
Maximum number of iterations                                     1000
Convergence criterion                                       0.500D-04
Maximum number of steepest descent iterations                      20
Maximum number of iterations for H1                              2000
Convergence criterion for H1                                0.100D-03
Parameterization                                                 DELTA
Link                                                            PROBIT

Input data file(s)
  All_Variables_012021.dat

Input data format  FREE


SUMMARY OF DATA

     Number of missing data patterns             6
     Number of clusters                         20



COVARIANCE COVERAGE OF DATA

Minimum covariance coverage value   0.100


     PROPORTION OF DATA PRESENT


           Covariance Coverage
              K6B1A_R       K6B1B_R       K6B1C_R       K6B1D_R
              ________      ________      ________      ________
 K6B1A_R        1.000
 K6B1B_R        0.999         0.999
 K6B1C_R        0.999         0.999         0.999
 K6B1D_R        0.999         0.999         0.999         0.999


UNIVARIATE PROPORTIONS AND COUNTS FOR CATEGORICAL VARIABLES

    K6B1A_R
      Category 1    0.046          157.000
      Category 2    0.079          269.000
      Category 3    0.400         1353.000
      Category 4    0.475         1607.000
```

K6B1B_R		
Category 1	0.037	126.000
Category 2	0.071	239.000
Category 3	0.329	1115.000
Category 4	0.563	1904.000
K6B1C_R		
Category 1	0.056	189.000
Category 2	0.059	201.000
Category 3	0.313	1058.000
Category 4	0.572	1936.000
K6B1D_R		
Category 1	0.025	83.000
Category 2	0.039	131.000
Category 3	0.233	789.000
Category 4	0.704	2380.000

SAMPLE STATISTICS

ESTIMATED SAMPLE STATISTICS

MEANS/INTERCEPTS/THRESHOLDS

K6B1A_R$	K6B1A_R$	K6B1A_R$	K6B1B_R$	K6B1B_R$
-1.681	-1.146	0.064	-1.784	-1.238

MEANS/INTERCEPTS/THRESHOLDS

K6B1B_R$	K6B1C_R$	K6B1C_R$	K6B1C_R$	K6B1D_R$
-0.158	-1.591	-1.199	-0.182	-1.968

MEANS/INTERCEPTS/THRESHOLDS

K6B1D_R$	K6B1D_R$
-1.528	-0.535

CORRELATION MATRIX (WITH VARIANCES ON THE DIAGONAL)

K6B1A_R	K6B1B_R	K6B1C_R	K6B1D_R

```
 K6B1A_R
 K6B1B_R        0.553
 K6B1C_R        0.521         0.580
 K6B1D_R        0.423         0.450         0.481


THE MODEL ESTIMATION TERMINATED NORMALLY



MODEL FIT INFORMATION

Number of Free Parameters                       16

Chi-Square Test of Model Fit

          Value                             7.026*
          Degrees of Freedom                    2
          P-Value                          0.0298

*   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                          0.027
          90 Percent C.I.                   0.007  0.050
          Probability RMSEA <= .05          0.947

CFI/TLI

          CFI                               0.999
          TLI                               0.996

Chi-Square Test of Model Fit for the Baseline Model

          Value                          3532.065
          Degrees of Freedom                    6
          P-Value                          0.0000

SRMR (Standardized Root Mean Square Residual)

          Value                             0.007

Optimum Function Value for Weighted Least-Squares Estimator
```

Value 0.44140540D-03

MODEL RESULTS

	Estimate	S.E.	Est./S.E.	Two-Tailed P-Value
SC15 BY				
K6B1A_R	0.707	0.012	58.363	0.000
K6B1B_R	0.768	0.016	49.190	0.000
K6B1C_R	0.757	0.015	51.890	0.000
K6B1D_R	0.607	0.020	30.317	0.000
Thresholds				
K6B1A_R$1	-1.681	0.042	-39.949	0.000
K6B1A_R$2	-1.146	0.034	-33.660	0.000
K6B1A_R$3	0.064	0.030	2.089	0.037
K6B1B_R$1	-1.784	0.037	-47.800	0.000
K6B1B_R$2	-1.238	0.030	-40.862	0.000
K6B1B_R$3	-0.158	0.029	-5.490	0.000
K6B1C_R$1	-1.591	0.039	-41.116	0.000
K6B1C_R$2	-1.199	0.043	-27.926	0.000
K6B1C_R$3	-0.182	0.035	-5.133	0.000
K6B1D_R$1	-1.968	0.044	-44.384	0.000
K6B1D_R$2	-1.528	0.041	-37.149	0.000
K6B1D_R$3	-0.535	0.039	-13.862	0.000
Variances				
SC15	1.000	0.000	999.000	999.000

STANDARDIZED MODEL RESULTS

STDYX Standardization

	Estimate	S.E.	Est./S.E.	Two-Tailed P-Value
SC15 BY				
K6B1A_R	0.707	0.012	58.363	0.000
K6B1B_R	0.768	0.016	49.190	0.000
K6B1C_R	0.757	0.015	51.890	0.000
K6B1D_R	0.607	0.020	30.317	0.000
Thresholds				
K6B1A_R$1	-1.681	0.042	-39.949	0.000

K6B1A_R$2	-1.146	0.034	-33.660	0.000
K6B1A_R$3	0.064	0.030	2.089	0.037
K6B1B_R$1	-1.784	0.037	-47.800	0.000
K6B1B_R$2	-1.238	0.030	-40.862	0.000
K6B1B_R$3	-0.158	0.029	-5.490	0.000
K6B1C_R$1	-1.591	0.039	-41.116	0.000
K6B1C_R$2	-1.199	0.043	-27.926	0.000
K6B1C_R$3	-0.182	0.035	-5.133	0.000
K6B1D_R$1	-1.968	0.044	-44.384	0.000
K6B1D_R$2	-1.528	0.041	-37.149	0.000
K6B1D_R$3	-0.535	0.039	-13.862	0.000
Variances				
SC15	1.000	0.000	999.000	999.000

STDY Standardization

	Estimate	S.E.	Est./S.E.	Two-Tailed P-Value
SC15 BY				
K6B1A_R	0.707	0.012	58.363	0.000
K6B1B_R	0.768	0.016	49.190	0.000
K6B1C_R	0.757	0.015	51.890	0.000
K6B1D_R	0.607	0.020	30.317	0.000
Thresholds				
K6B1A_R$1	-1.681	0.042	-39.949	0.000
K6B1A_R$2	-1.146	0.034	-33.660	0.000
K6B1A_R$3	0.064	0.030	2.089	0.037
K6B1B_R$1	-1.784	0.037	-47.800	0.000
K6B1B_R$2	-1.238	0.030	-40.862	0.000
K6B1B_R$3	-0.158	0.029	-5.490	0.000
K6B1C_R$1	-1.591	0.039	-41.116	0.000
K6B1C_R$2	-1.199	0.043	-27.926	0.000
K6B1C_R$3	-0.182	0.035	-5.133	0.000
K6B1D_R$1	-1.968	0.044	-44.384	0.000
K6B1D_R$2	-1.528	0.041	-37.149	0.000
K6B1D_R$3	-0.535	0.039	-13.862	0.000
Variances				
SC15	1.000	0.000	999.000	999.000

STD Standardization

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

SC15 BY				
K6B1A_R	0.707	0.012	58.363	0.000
K6B1B_R	0.768	0.016	49.190	0.000
K6B1C_R	0.757	0.015	51.890	0.000
K6B1D_R	0.607	0.020	30.317	0.000
Thresholds				
K6B1A_R$1	-1.681	0.042	-39.949	0.000
K6B1A_R$2	-1.146	0.034	-33.660	0.000
K6B1A_R$3	0.064	0.030	2.089	0.037
K6B1B_R$1	-1.784	0.037	-47.800	0.000
K6B1B_R$2	-1.238	0.030	-40.862	0.000
K6B1B_R$3	-0.158	0.029	-5.490	0.000
K6B1C_R$1	-1.591	0.039	-41.116	0.000
K6B1C_R$2	-1.199	0.043	-27.926	0.000
K6B1C_R$3	-0.182	0.035	-5.133	0.000
K6B1D_R$1	-1.968	0.044	-44.384	0.000
K6B1D_R$2	-1.528	0.041	-37.149	0.000
K6B1D_R$3	-0.535	0.039	-13.862	0.000
Variances				
SC15	1.000	0.000	999.000	999.000

R-SQUARE

Observed Variable	Estimate	S.E.	Est./S.E.	Two-Tailed P-Value	Residual Variance
K6B1A_R	0.499	0.017	29.182	0.000	0.501
K6B1B_R	0.590	0.024	24.595	0.000	0.410
K6B1C_R	0.573	0.022	25.945	0.000	0.427
K6B1D_R	0.368	0.024	15.159	0.000	0.632

QUALITY OF NUMERICAL RESULTS

Condition Number for the Information Matrix 0.473E-01
(ratio of smallest to largest eigenvalue)

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.

No modification indices above the minimum value.

SAMPLE STATISTICS FOR ESTIMATED FACTOR SCORES

SAMPLE STATISTICS

Means

SC15	SC15_SE
-0.045	0.536

Covariances

	SC15	SC15_SE
SC15	0.620	
SC15_SE	0.050	0.006

Correlations

	SC15	SC15_SE
SC15	1.000	
SC15_SE	0.851	1.000

SAVEDATA INFORMATION

Save file
CFA_FactorScores_SC15_012122.txt

Order and format of variables

K6B1A_R	F10.3
K6B1B_R	F10.3
K6B1C_R	F10.3
K6B1D_R	F10.3
SC15	F10.3
SC15_SE	F10.3
FF_ID	I6

```
    M1CITY         I3

  Save file format
    6F10.3 I6 I3

  Save file record length    10000


     Beginning Time:  12:55:47
        Ending Time:  12:55:47
       Elapsed Time:  00:00:00
```

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