```
Mplus VERSION 8.4 (Mac)
MUTHEN & MUTHEN
08/05/2020  12:44 PM

INPUT INSTRUCTIONS

  TITLE: Measurement Models - School Conn PAF Int
  DATA: FILE = "All_Variables_072720.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 k5e2a k5e2b
k5e2c k5e2d
       k6b1a k6b1b k6b1c k6b1d k6b32a k6b32b k6b32c k6b32d k6b32e
k6b32f k5e2a_r
       k5e2b_r k5e2c_r k5e2d_r k6b1a_r k6b1b_r k6b1c_r k6b1d_r;

  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);

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_SC9_080520.txt;
    save = fscores;
```

*** 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: 1565
   1 WARNING(S) FOUND IN THE INPUT INSTRUCTIONS

Measurement Models - School Conn PAF Int

SUMMARY OF ANALYSIS

Number of groups	1
Number of observations	3333
Number of dependent variables	4
Number of independent variables	0
Number of continuous latent variables	1

Observed dependent variables

  Binary and ordered categorical (ordinal)
   K5E1A   K5E1B   K5E1C   K5E1D

Continuous latent variables
   SC9

Variables with special functions

  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_072720.dat

Input data format FREE

SUMMARY OF DATA

     Number of missing data patterns   13

COVARIANCE COVERAGE OF DATA

Minimum covariance coverage value 0.100

PROPORTION OF DATA PRESENT

Covariance Coverage

	K5E1A	K5E1B	K5E1C	K5E1D
K5E1A	0.986			
K5E1B	0.981	0.992		
K5E1C	0.984	0.990	0.998	
K5E1D	0.982	0.987	0.992	0.994

UNIVARIATE PROPORTIONS AND COUNTS FOR CATEGORICAL VARIABLES

K5E1A		
Category 1	0.096	315.000
Category 2	0.088	288.000
Category 3	0.080	264.000
Category 4	0.147	484.000
Category 5	0.589	1936.000
K5E1B		
Category 1	0.129	427.000
Category 2	0.104	344.000
Category 3	0.100	332.000
Category 4	0.178	589.000
Category 5	0.488	1613.000
K5E1C		
Category 1	0.092	307.000
Category 2	0.072	239.000
Category 3	0.085	282.000
Category 4	0.156	519.000
Category 5	0.595	1978.000
K5E1D		
Category 1	0.062	207.000
Category 2	0.044	145.000
Category 3	0.049	162.000
Category 4	0.107	353.000
Category 5	0.738	2445.000

SAMPLE STATISTICS

ESTIMATED SAMPLE STATISTICS

MEANS/INTERCEPTS/THRESHOLDS

K5E1A$1	K5E1A$2	K5E1A$3	K5E1A$4	K5E1B$1
−1.306	−0.902	−0.632	−0.225	−1.130

MEANS/INTERCEPTS/THRESHOLDS

K5E1B$2	K5E1B$3	K5E1B$4	K5E1C$1	K5E1C$2
−0.728	−0.430	0.030	−1.327	−0.977

MEANS/INTERCEPTS/THRESHOLDS

K5E1C$3	K5E1C$4	K5E1D$1	K5E1D$2	K5E1D$3
−0.678	−0.240	−1.534	−1.247	−1.014

MEANS/INTERCEPTS/THRESHOLDS

K5E1D$4
−0.638

CORRELATION MATRIX (WITH VARIANCES ON THE DIAGONAL)

	K5E1A	K5E1B	K5E1C	K5E1D
K5E1A				
K5E1B	0.489			
K5E1C	0.506	0.457		
K5E1D	0.470	0.405	0.565	

THE MODEL ESTIMATION TERMINATED NORMALLY

MODEL FIT INFORMATION

Number of Free Parameters 20

Chi-Square Test of Model Fit

Value	35.818*
Degrees of Freedom	2
P-Value	0.0000

* 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	0.071	
90 Percent C.I.	0.052	0.093
Probability RMSEA <= .05	0.036	

CFI/TLI

CFI	0.990
TLI	0.971

Chi-Square Test of Model Fit for the Baseline Model

Value	3461.592
Degrees of Freedom	6
P-Value	0.0000

SRMR (Standardized Root Mean Square Residual)

Value	0.016

Optimum Function Value for Weighted Least-Squares Estimator

Value	0.28121369D-02

MODEL RESULTS

		Estimate	S.E.	Est./S.E.	Two-Tailed P-Value
SC9	BY				

K5E1A	0.704	0.016	43.031	0.000
K5E1B	0.634	0.017	37.244	0.000
K5E1C	0.750	0.016	48.073	0.000
K5E1D	0.699	0.019	37.699	0.000
Thresholds				
K5E1A$1	-1.306	0.030	-43.259	0.000
K5E1A$2	-0.902	0.025	-35.491	0.000
K5E1A$3	-0.632	0.024	-26.859	0.000
K5E1A$4	-0.225	0.022	-10.195	0.000
K5E1B$1	-1.130	0.028	-40.803	0.000
K5E1B$2	-0.728	0.024	-30.290	0.000
K5E1B$3	-0.430	0.023	-19.053	0.000
K5E1B$4	0.030	0.022	1.374	0.169
K5E1C$1	-1.327	0.030	-43.729	0.000
K5E1C$2	-0.977	0.026	-37.643	0.000
K5E1C$3	-0.678	0.024	-28.651	0.000
K5E1C$4	-0.240	0.022	-10.933	0.000
K5E1D$1	-1.534	0.034	-44.857	0.000
K5E1D$2	-1.247	0.029	-42.699	0.000
K5E1D$3	-1.014	0.026	-38.451	0.000
K5E1D$4	-0.638	0.023	-27.182	0.000
Variances				
SC9	1.000	0.000	999.000	999.000

STANDARDIZED MODEL RESULTS

STDYX Standardization

	Estimate	S.E.	Est./S.E.	Two-Tailed P-Value
SC9 BY				
K5E1A	0.704	0.016	43.031	0.000
K5E1B	0.634	0.017	37.244	0.000
K5E1C	0.750	0.016	48.073	0.000
K5E1D	0.699	0.019	37.699	0.000
Thresholds				
K5E1A$1	-1.306	0.030	-43.259	0.000
K5E1A$2	-0.902	0.025	-35.491	0.000
K5E1A$3	-0.632	0.024	-26.859	0.000
K5E1A$4	-0.225	0.022	-10.195	0.000
K5E1B$1	-1.130	0.028	-40.803	0.000
K5E1B$2	-0.728	0.024	-30.290	0.000
K5E1B$3	-0.430	0.023	-19.053	0.000
K5E1B$4	0.030	0.022	1.374	0.169

K5E1C$1	-1.327	0.030	-43.729	0.000
K5E1C$2	-0.977	0.026	-37.643	0.000
K5E1C$3	-0.678	0.024	-28.651	0.000
K5E1C$4	-0.240	0.022	-10.933	0.000
K5E1D$1	-1.534	0.034	-44.857	0.000
K5E1D$2	-1.247	0.029	-42.699	0.000
K5E1D$3	-1.014	0.026	-38.451	0.000
K5E1D$4	-0.638	0.023	-27.182	0.000
Variances				
SC9	1.000	0.000	999.000	999.000

STDY Standardization

	Estimate	S.E.	Est./S.E.	Two-Tailed P-Value
SC9 BY				
K5E1A	0.704	0.016	43.031	0.000
K5E1B	0.634	0.017	37.244	0.000
K5E1C	0.750	0.016	48.073	0.000
K5E1D	0.699	0.019	37.699	0.000
Thresholds				
K5E1A$1	-1.306	0.030	-43.259	0.000
K5E1A$2	-0.902	0.025	-35.491	0.000
K5E1A$3	-0.632	0.024	-26.859	0.000
K5E1A$4	-0.225	0.022	-10.195	0.000
K5E1B$1	-1.130	0.028	-40.803	0.000
K5E1B$2	-0.728	0.024	-30.290	0.000
K5E1B$3	-0.430	0.023	-19.053	0.000
K5E1B$4	0.030	0.022	1.374	0.169
K5E1C$1	-1.327	0.030	-43.729	0.000
K5E1C$2	-0.977	0.026	-37.643	0.000
K5E1C$3	-0.678	0.024	-28.651	0.000
K5E1C$4	-0.240	0.022	-10.933	0.000
K5E1D$1	-1.534	0.034	-44.857	0.000
K5E1D$2	-1.247	0.029	-42.699	0.000
K5E1D$3	-1.014	0.026	-38.451	0.000
K5E1D$4	-0.638	0.023	-27.182	0.000
Variances				
SC9	1.000	0.000	999.000	999.000

STD Standardization

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

SC9 BY				
K5E1A	0.704	0.016	43.031	0.000
K5E1B	0.634	0.017	37.244	0.000
K5E1C	0.750	0.016	48.073	0.000
K5E1D	0.699	0.019	37.699	0.000
Thresholds				
K5E1A$1	-1.306	0.030	-43.259	0.000
K5E1A$2	-0.902	0.025	-35.491	0.000
K5E1A$3	-0.632	0.024	-26.859	0.000
K5E1A$4	-0.225	0.022	-10.195	0.000
K5E1B$1	-1.130	0.028	-40.803	0.000
K5E1B$2	-0.728	0.024	-30.290	0.000
K5E1B$3	-0.430	0.023	-19.053	0.000
K5E1B$4	0.030	0.022	1.374	0.169
K5E1C$1	-1.327	0.030	-43.729	0.000
K5E1C$2	-0.977	0.026	-37.643	0.000
K5E1C$3	-0.678	0.024	-28.651	0.000
K5E1C$4	-0.240	0.022	-10.933	0.000
K5E1D$1	-1.534	0.034	-44.857	0.000
K5E1D$2	-1.247	0.029	-42.699	0.000
K5E1D$3	-1.014	0.026	-38.451	0.000
K5E1D$4	-0.638	0.023	-27.182	0.000
Variances				
SC9	1.000	0.000	999.000	999.000

R-SQUARE

Observed Variable	Estimate	S.E.	Est./S.E.	Two-Tailed P-Value	Residual Variance
K5E1A	0.495	0.023	21.515	0.000	0.505
K5E1B	0.402	0.022	18.622	0.000	0.598
K5E1C	0.563	0.023	24.037	0.000	0.437
K5E1D	0.489	0.026	18.850	0.000	0.511

QUALITY OF NUMERICAL RESULTS

Condition Number for the Information Matrix
0.981E-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.
ON Statements					
K5E1A	ON K5E1B	35.196	0.124	0.124	0.124
K5E1A	ON K5E1C	13.527	-0.097	-0.097	-0.097
K5E1B	ON K5E1A	35.195	0.124	0.124	0.124
K5E1B	ON K5E1D	13.525	-0.081	-0.081	-0.081
K5E1C	ON K5E1A	13.522	-0.097	-0.097	-0.097
K5E1C	ON K5E1D	35.218	0.146	0.146	0.146
K5E1D	ON K5E1B	13.519	-0.081	-0.081	-0.081
K5E1D	ON K5E1C	35.222	0.146	0.146	0.146
WITH Statements					
K5E1B	WITH K5E1A	35.199	0.124	0.124	0.226
K5E1C	WITH K5E1A	13.524	-0.097	-0.097	-0.206
K5E1D	WITH K5E1B	13.522	-0.081	-0.081	-0.147
K5E1D	WITH K5E1C	35.215	0.146	0.146	0.310

SAMPLE STATISTICS FOR ESTIMATED FACTOR SCORES

SAMPLE STATISTICS

Means

SC9	SC9_SE
_____	_____

```
              -0.049         0.561


           Covariances
              SC9           SC9_SE
              ________      ________
 SC9            0.596
 SC9_SE         0.052         0.007


           Correlations
              SC9           SC9_SE
              ________      ________
 SC9            1.000
 SC9_SE         0.803         1.000


SAVEDATA INFORMATION


  Save file
    CFA_FactorScores_SC9_080520.txt

  Order and format of variables

    K5E1A          F10.3
    K5E1B          F10.3
    K5E1C          F10.3
    K5E1D          F10.3
    SC9            F10.3
    SC9_SE         F10.3
    FF_ID          I6

  Save file format
    6F10.3 I6

  Save file record length    10000


     Beginning Time:  12:44:50
        Ending Time:  12:44:50
       Elapsed Time:  00:00:00



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