```
Mplus VERSION 8.1
MUTHEN & MUTHEN
08/01/2020   7:31 PM

INPUT INSTRUCTIONS

    TITLE:      Covid-19 ESM;
    DATA:       FILE IS Covid19 ESM w prev w consec.csv; listwise=on;
    VARIABLE:   NAMES ARE
    ID Dstb Deex Dwitd2 fri Dslp Dwit inter tassup Consec;

    USEVARIABLES ARE
    Dstb Deex Dwitd2 fri Dslp Dwit inter tassup;

    USEOBSERVATIONS = Consec==1;

    CLUSTER = id;

    MISSING = ALL(-99);

    WITHIN = Dstb Dslp Dwit fri;
    BETWEEN = inter tassup;

    DEFINE:
    CENTER Dstb Dslp Dwit fri(GROUPMEAN);
    CENTER tassup inter(GRANDMEAN);

    ANALYSIS:
    TYPE = TWOLEVEL RANDOM;
    ESTIMATOR = ML;

    MODEL:
    %WITHIN%
    a1 | Deex on Dstb;
    b1 | Dwitd2 on Deex;
    c1 | Dwitd2 on Dstb;
    Dwitd2 on Dwit fri;
    Deex on Dslp fri;

    %BETWEEN%
    Deex Dwitd2;
    inter tassup;
    a1 b1 c1;
    a1 with b1;
    Deex on inter;
    a1 on inter;
    Dwitd2 on tassup;
    b1 on tassup;

    OUTPUT:
    TECH1 TECH3 TECH8;


Covid-19 ESM;

SUMMARY OF ANALYSIS

Number of groups                                                 1
Number of observations                                        1022

Number of dependent variables                                    2
Number of independent variables                                  6
Number of continuous latent variables                            3

Observed dependent variables

  Continuous
   DEEX        DWITD2
```

Observed independent variables
DSTB FRI DSLP DWIT INTER TASSUP

Continuous latent variables
A1 B1 C1

Variables with special functions

Cluster variable ID

Within variables
DSTB FRI DSLP DWIT

Between variables
INTER TASSUP

Centering (GRANDMEAN)
TASSUP INTER

Centering (GROUPMEAN)
DSTB DSLP DWIT FRI

Estimator	ML
Information matrix	OBSERVED
Maximum number of iterations	100
Convergence criterion	0.100D-05
Maximum number of EM iterations	500
Convergence criteria for the EM algorithm	
Loglikelihood change	0.100D-02
Relative loglikelihood change	0.100D-05
Derivative	0.100D-03
Minimum variance	0.100D-03
Maximum number of steepest descent iterations	20
Maximum number of iterations for H1	2000
Convergence criterion for H1	0.100D-03
Optimization algorithm	EMA

Input data file(s)
Covid19 ESM w prev w consec.csv
Input data format FREE

SUMMARY OF DATA

Number of clusters 120

Average cluster size 8.517

Estimated Intraclass Correlations for the Y Variables

Variable	Intraclass Correlation	Variable	Intraclass Correlation	Variable	Intraclass Correlation
DEEX	0.673	DWITD2	0.464		

UNIVARIATE SAMPLE STATISTICS

UNIVARIATE HIGHER-ORDER MOMENT DESCRIPTIVE STATISTICS

Variable/ Sample Size	Mean/ Variance	Skewness/ Kurtosis	Minimum/ Maximum	% with Min/Max	Percentiles 20%/60%	40%/8

0%	Median						
	INTER	0.000	-0.489	-2.205	1.67%	-0.605	-0.205
	0.195						
	120.000	0.529	0.253	1.195	7.50%	0.195	0.595
	TASSUP	0.000	-0.589	-2.636	2.50%	-0.636	0.031
	0.364						
	120.000	0.859	0.095	1.364	11.67%	0.364	0.697
	DEEX	2.180	0.955	1.000	34.64%	1.000	1.500
	2.000						
	1022.000	1.621	-0.240	5.000	8.12%	2.000	3.000
	DWITD2	1.365	2.230	1.000	51.08%	1.000	1.000
	1.000						
	1022.000	0.324	5.779	4.750	0.10%	1.250	1.500
	DSTB	0.000	0.556	-2.815	0.10%	-0.333	-0.074
	0.000						
	1022.000	0.332	4.887	3.556	0.10%	0.000	0.333
	FRI	0.000	1.312	-0.400	0.29%	-0.222	-0.222
	-0.222						
	1022.000	0.173	-0.249	0.889	0.10%	-0.222	0.750
	DSLP	0.000	-0.334	-2.889	0.10%	-0.571	0.000
	0.000						
	1022.000	0.447	0.715	2.667	0.10%	0.111	0.556
	DWIT	0.000	1.278	-1.444	0.10%	-0.222	-0.083
	-0.028						
	1022.000	0.152	6.245	2.639	0.10%	0.000	0.194

THE MODEL ESTIMATION TERMINATED NORMALLY

MODEL FIT INFORMATION

Number of Free Parameters 26

Loglikelihood

H0 Value -2197.214

Information Criteria

Akaike (AIC)	4446.428
Bayesian (BIC)	4574.595
Sample-Size Adjusted BIC (n* = (n + 2) / 24)	4492.017

MODEL RESULTS

	Estimate	S.E.	Est./S.E.	Two-Tailed P-Value
Within Level				
DWITD2 ON				
DWIT	-0.036	0.033	-1.062	0.288
FRI	-0.028	0.031	-0.922	0.356

DEEX ON				
DSLP	-0.154	0.032	-4.800	0.000
FRI	-0.070	0.051	-1.372	0.170
Residual Variances				
DEEX	0.450	0.022	20.344	0.000
DWITD2	0.163	0.008	19.808	0.000

Between Level

A1 ON				
INTER	0.165	0.073	2.276	0.023
B1 ON				
TASSUP	-0.047	0.022	-2.182	0.029
DEEX ON				
INTER	0.236	0.137	1.724	0.085
DWITD2 ON				
TASSUP	0.114	0.048	2.361	0.018
A1 WITH				
B1	0.010	0.007	1.410	0.158
DWITD2 WITH				
DEEX	0.060	0.046	1.326	0.185
Means				
INTER	0.000	0.066	0.000	1.000
TASSUP	0.000	0.085	0.000	1.000
C1	-0.024	0.024	-0.973	0.331
Intercepts				
DEEX	2.170	0.096	22.524	0.000
DWITD2	1.315	0.053	25.007	0.000
A1	0.182	0.056	3.264	0.001
B1	0.023	0.023	0.976	0.329
Variances				
INTER	0.529	0.068	7.746	0.000
TASSUP	0.859	0.111	7.746	0.000
C1	0.003	0.008	0.370	0.711
Residual Variances				
DEEX	1.060	0.144	7.374	0.000
DWITD2	0.082	0.020	4.052	0.000
A1	0.099	0.037	2.674	0.007
B1	0.011	0.003	3.327	0.001

QUALITY OF NUMERICAL RESULTS

Condition Number for the Information Matrix 0.700E-06
(ratio of smallest to largest eigenvalue)

TECHNICAL 1 OUTPUT

PARAMETER SPECIFICATION FOR WITHIN

NU

DEEX	DWITD2	DSTB	FRI	DSLP
0	0	0	0	0

NU

	DWIT
	0

LAMBDA

	DEEX	DWITD2	DSTB	FRI	DSLP
DEEX	0	0	0	0	0
DWITD2	0	0	0	0	0
DSTB	0	0	0	0	0
FRI	0	0	0	0	0
DSLP	0	0	0	0	0
DWIT	0	0	0	0	0

LAMBDA

	DWIT
DEEX	0
DWITD2	0
DSTB	0
FRI	0
DSLP	0
DWIT	0

THETA

	DEEX	DWITD2	DSTB	FRI	DSLP
DEEX	0				
DWITD2	0	0			
DSTB	0	0	0		
FRI	0	0	0	0	
DSLP	0	0	0	0	0
DWIT	0	0	0	0	0

THETA

	DWIT
DWIT	0

ALPHA

DEEX	DWITD2	DSTB	FRI	DSLP
0	0	0	0	0

ALPHA

DWIT
0

BETA

	DEEX	DWITD2	DSTB	FRI	DSLP
DEEX	0	0	0	1	2
DWITD2	0	0	0	3	0
DSTB	0	0	0	0	0
FRI	0	0	0	0	0
DSLP	0	0	0	0	0
DWIT	0	0	0	0	0

BETA

	DWIT
DEEX	0
DWITD2	4
DSTB	0
FRI	0
DSLP	0
DWIT	0

PSI

	DEEX	DWITD2	DSTB	FRI	DSLP
DEEX	5				
DWITD2	0	6			
DSTB	0	0	0		
FRI	0	0	0	0	
DSLP	0	0	0	0	0
DWIT	0	0	0	0	0

PSI

	DWIT
DWIT	0

PARAMETER SPECIFICATION FOR BETWEEN

NU

INTER	TASSUP	DEEX	DWITD2
0	0	0	0

LAMBDA

	A1	B1	C1	INTER	TASSUP
INTER	0	0	0	0	0
TASSUP	0	0	0	0	0
DEEX	0	0	0	0	0
DWITD2	0	0	0	0	0

LAMBDA

	DEEX	DWITD2
INTER	0	0
TASSUP	0	0
DEEX	0	0
DWITD2	0	0

THETA

	INTER	TASSUP	DEEX	DWITD2
INTER	0			
TASSUP	0	0		
DEEX	0	0	0	
DWITD2	0	0	0	0

ALPHA

	A1	B1	C1	INTER	TASSUP

	7	8	9	10	11

ALPHA

	DEEX	DWITD2
	12	13

BETA

	A1	B1	C1	INTER	TASSUP
A1	0	0	0	14	0
B1	0	0	0	0	15
C1	0	0	0	0	0
INTER	0	0	0	0	0
TASSUP	0	0	0	0	0
DEEX	0	0	0	16	0
DWITD2	0	0	0	0	17

BETA

	DEEX	DWITD2
A1	0	0
B1	0	0
C1	0	0
INTER	0	0
TASSUP	0	0
DEEX	0	0
DWITD2	0	0

PSI

	A1	B1	C1	INTER	TASSUP
A1	18				
B1	19	20			
C1	0	0	21		
INTER	0	0	0	22	
TASSUP	0	0	0	0	23
DEEX	0	0	0	0	0
DWITD2	0	0	0	0	0

PSI

	DEEX	DWITD2
DEEX	24	
DWITD2	25	26

STARTING VALUES FOR WITHIN

NU

DEEX	DWITD2	DSTB	FRI	DSLP
0.000	0.000	0.000	0.000	0.000

NU

DWIT
0.000

LAMBDA

	DEEX	DWITD2	DSTB	FRI	DSLP
DEEX	1.000	0.000	0.000	0.000	0.000
DWITD2	0.000	1.000	0.000	0.000	0.000
DSTB	0.000	0.000	1.000	0.000	0.000
FRI	0.000	0.000	0.000	1.000	0.000
DSLP	0.000	0.000	0.000	0.000	1.000
DWIT	0.000	0.000	0.000	0.000	0.000

LAMBDA

	DWIT
DEEX	0.000
DWITD2	0.000
DSTB	0.000
FRI	0.000
DSLP	0.000
DWIT	1.000

THETA

	DEEX	DWITD2	DSTB	FRI	DSLP
DEEX	0.000				
DWITD2	0.000	0.000			
DSTB	0.000	0.000	0.000		
FRI	0.000	0.000	0.000	0.000	
DSLP	0.000	0.000	0.000	0.000	0.000
DWIT	0.000	0.000	0.000	0.000	0.000

THETA

	DWIT
DWIT	0.000

ALPHA

DEEX	DWITD2	DSTB	FRI	DSLP
0.000	0.000	0.000	0.000	0.000

ALPHA

DWIT
0.000

BETA

	DEEX	DWITD2	DSTB	FRI	DSLP
DEEX	0.000	0.000	0.000	0.000	0.000
DWITD2	0.000	0.000	0.000	0.000	0.000
DSTB	0.000	0.000	0.000	0.000	0.000
FRI	0.000	0.000	0.000	0.000	0.000
DSLP	0.000	0.000	0.000	0.000	0.000
DWIT	0.000	0.000	0.000	0.000	0.000

BETA

	DWIT
DEEX	0.000
DWITD2	0.000
DSTB	0.000
FRI	0.000

DSLP	0.000
DWIT	0.000

PSI

	DEEX	DWITD2	DSTB	FRI	DSLP
DEEX	0.811				
DWITD2	0.000	0.162			
DSTB	0.000	0.000	0.166		
FRI	0.000	0.000	0.000	0.086	
DSLP	0.000	0.000	0.000	0.000	0.223
DWIT	0.000	0.000	0.000	0.000	0.000

PSI

	DWIT
DWIT	0.076

STARTING VALUES FOR BETWEEN

NU

INTER	TASSUP	DEEX	DWITD2
0.000	0.000	0.000	0.000

LAMBDA

	A1	B1	C1	INTER	TASSUP
INTER	0.000	0.000	0.000	1.000	0.000
TASSUP	0.000	0.000	0.000	0.000	1.000
DEEX	0.000	0.000	0.000	0.000	0.000
DWITD2	0.000	0.000	0.000	0.000	0.000

LAMBDA

	DEEX	DWITD2
INTER	0.000	0.000
TASSUP	0.000	0.000
DEEX	1.000	0.000
DWITD2	0.000	1.000

THETA

	INTER	TASSUP	DEEX	DWITD2
INTER	0.000			
TASSUP	0.000	0.000		
DEEX	0.000	0.000	0.000	
DWITD2	0.000	0.000	0.000	0.000

ALPHA

A1	B1	C1	INTER	TASSUP
0.000	0.000	0.000	0.004	0.005

ALPHA

DEEX	DWITD2
2.180	1.365

BETA

	A1	B1	C1	INTER	TASSUP
A1	0.000	0.000	0.000	0.000	0.000
B1	0.000	0.000	0.000	0.000	0.000
C1	0.000	0.000	0.000	0.000	0.000
INTER	0.000	0.000	0.000	0.000	0.000
TASSUP	0.000	0.000	0.000	0.000	0.000
DEEX	0.000	0.000	0.000	0.000	0.000
DWITD2	0.000	0.000	0.000	0.000	0.000

BETA

	DEEX	DWITD2
A1	0.000	0.000
B1	0.000	0.000
C1	0.000	0.000
INTER	0.000	0.000
TASSUP	0.000	0.000
DEEX	0.000	0.000
DWITD2	0.000	0.000

PSI

	A1	B1	C1	INTER	TASSUP
A1	1.000				
B1	0.000	1.000			
C1	0.000	0.000	1.000		
INTER	0.000	0.000	0.000	0.262	
TASSUP	0.000	0.000	0.000	0.000	0.428
DEEX	0.000	0.000	0.000	0.000	0.000
DWITD2	0.000	0.000	0.000	0.000	0.000

PSI

	DEEX	DWITD2
DEEX	0.811	
DWITD2	0.000	0.162

TECHNICAL 3 OUTPUT

ESTIMATED COVARIANCE MATRIX FOR PARAMETER ESTIMATES

	1	2	3	4	5
1	0.263207D-02				
2	-0.782100D-04	0.103471D-02			
3	0.170670D-06	0.323007D-06	0.945716D-03		
4	-0.578214D-06	0.664103D-06	0.771144D-04	0.112007D-02	
5	-0.647772D-05	0.653161D-05	-0.490335D-06	0.542440D-06	0.488631D-03
6	-0.892466D-07	0.114634D-06	0.782261D-06	0.829200D-05	0.171561D-07
7	0.128801D-03	0.481793D-04	-0.163454D-06	-0.104145D-04	0.301257D-04
8	0.189387D-05	0.537124D-07	0.325855D-04	-0.123635D-04	-0.104468D-05
9	0.992711D-06	-0.194894D-05	0.248493D-04	0.104015D-04	-0.169267D-06
10	-0.153695D-19	-0.566625D-20	-0.412902D-20	0.279127D-20	-0.340638D-20
11	0.264145D-20	0.319191D-21	0.385271D-19	-0.134412D-19	-0.899901D-21
12	-0.184337D-07	0.101123D-07	-0.437345D-07	0.117606D-07	0.449551D-06
13	-0.386378D-05	-0.614874D-06	-0.671160D-04	0.195188D-04	0.947409D-06
14	-0.463118D-04	0.906751D-04	-0.129015D-06	0.241984D-05	-0.737533D-05
15	-0.249690D-05	0.823112D-06	-0.745922D-05	-0.324614D-04	-0.111178D-05
16	-0.325690D-05	-0.818025D-06	-0.170385D-04	0.177677D-05	-0.367619D-05
17	0.371297D-06	0.750631D-06	0.177757D-04	0.817108D-04	-0.582966D-06
18	0.337127D-04	-0.336894D-04	0.265754D-05	-0.524867D-05	-0.136013D-03

19	-0.265116D-05	0.315900D-05	0.375997D-06	0.784944D-05	-0.376740D-06
20	0.370955D-07	-0.256501D-06	0.134801D-05	-0.878519D-05	-0.236924D-06
21	0.239377D-06	0.379479D-07	-0.367449D-06	-0.259405D-04	-0.180040D-06
22	0.898018D-20	-0.190364D-19	0.572982D-21	-0.894341D-21	0.100575D-19
23	-0.239392D-20	0.162763D-20	-0.130804D-19	-0.860282D-19	0.423163D-20
24	0.511949D-06	-0.760961D-06	-0.882707D-06	0.109686D-06	-0.536475D-04
25	-0.339405D-05	-0.132770D-05	-0.239971D-04	0.322857D-05	-0.276418D-05
26	-0.863017D-07	0.106499D-10	-0.131427D-04	0.471343D-04	0.111239D-05

ESTIMATED COVARIANCE MATRIX FOR PARAMETER ESTIMATES

	6	7	8	9	10
6	0.673500D-04				
7	-0.108842D-05	0.309325D-02			
8	-0.472350D-05	0.103379D-03	0.534435D-03		
9	0.412061D-05	0.240806D-04	-0.823723D-04	0.586826D-03	
10	0.730320D-21	-0.279362D-18	-0.701345D-19	0.766876D-20	0.440812D-02
11	-0.583374D-20	0.684008D-19	0.524087D-18	-0.995591D-19	0.560690D-19
12	0.229928D-07	0.140544D-07	-0.690686D-06	0.152534D-06	0.797723D-20
13	0.109340D-04	-0.210373D-04	-0.899701D-03	0.180676D-03	0.121672D-18
14	0.197337D-05	0.228100D-03	0.189794D-04	0.457733D-05	-0.291984D-19
15	0.582111D-05	-0.396578D-04	0.502594D-04	-0.566645D-05	-0.171989D-20
16	0.308420D-05	0.317117D-04	-0.297363D-03	0.706110D-04	0.343058D-19
17	-0.114753D-04	0.350958D-04	-0.986998D-04	0.150718D-05	0.842058D-20
18	-0.359941D-06	-0.227811D-03	0.535892D-05	0.527483D-05	0.260797D-19
19	0.106595D-05	-0.583128D-04	-0.201793D-05	-0.176693D-04	0.710350D-20
20	-0.208462D-05	0.549630D-06	-0.238529D-05	-0.275418D-05	0.239348D-21
21	-0.192763D-04	0.348164D-05	0.115504D-04	-0.862781D-05	-0.188029D-20
22	-0.173656D-21	-0.556994D-19	0.111415D-19	-0.667503D-20	0.158242D-11
23	0.200445D-19	-0.297299D-19	0.106710D-18	0.387829D-20	0.275622D-24
24	0.169436D-06	-0.172355D-05	-0.158752D-04	0.375917D-05	0.223287D-20
25	0.691438D-05	0.387061D-04	-0.370802D-03	0.100742D-03	0.428759D-19
26	-0.408652D-05	0.426049D-05	-0.205251D-04	0.813582D-05	0.212723D-20

ESTIMATED COVARIANCE MATRIX FOR PARAMETER ESTIMATES

	11	12	13	14	15
11	0.716043D-02				
12	-0.221505D-18	0.928191D-02			
13	-0.128447D-17	0.505705D-03	0.276428D-02		
14	0.211393D-19	-0.605808D-07	-0.291420D-04	0.528058D-02	
15	0.549911D-19	-0.105572D-06	-0.823367D-04	0.125910D-04	0.467290D-03
16	-0.387961D-18	0.269570D-05	0.791542D-03	-0.113782D-03	-0.460509D-04
17	-0.111900D-18	0.494533D-06	0.180215D-03	-0.155636D-04	-0.688082D-03
18	0.409900D-20	-0.129909D-06	-0.360260D-05	0.573763D-04	-0.194467D-05
19	-0.217619D-20	-0.104285D-07	0.221561D-05	0.219643D-04	0.268357D-04
20	-0.287750D-20	-0.416092D-08	0.520319D-05	-0.161926D-06	0.250187D-06
21	0.138718D-19	-0.175026D-07	-0.247927D-04	0.545259D-05	-0.459960D-05
22	-0.339383D-24	-0.761229D-22	-0.332278D-19	-0.105966D-17	0.211183D-19
23	-0.432523D-11	-0.288599D-21	-0.190166D-18	0.782768D-19	0.670411D-18
24	-0.206714D-19	-0.586990D-05	0.423812D-04	-0.565875D-05	-0.236303D-05
25	-0.483662D-18	0.270734D-05	0.986503D-03	-0.234960D-04	-0.492608D-04
26	-0.273345D-19	-0.500706D-08	0.574110D-04	-0.233387D-04	-0.218343D-04

ESTIMATED COVARIANCE MATRIX FOR PARAMETER ESTIMATES

	16	17	18	19	20
16	0.186864D-01				
17	0.274656D-03	0.234204D-02			
18	0.199174D-04	0.113247D-04	0.137123D-02		
19	-0.101652D-04	-0.279562D-04	0.504655D-04	0.508831D-04	
20	0.590144D-05	-0.361311D-05	0.399008D-05	0.213081D-05	0.113293D-04
21	-0.801749D-05	0.401702D-05	0.188333D-05	-0.269683D-05	0.482618D-05
22	-0.593884D-18	-0.276727D-19	-0.812520D-19	0.134182D-21	-0.190264D-21
23	-0.157962D-18	-0.205392D-17	-0.591539D-19	0.171625D-19	-0.152415D-19

24	0.107425D-02	0.150334D-04	0.159443D-04	-0.502056D-06	0.322199D-06
25	0.175756D-02	0.245597D-03	0.199904D-04	-0.717944D-05	0.209054D-05
26	0.207378D-04	0.947248D-04	-0.892541D-05	0.809148D-05	-0.270148D-04

ESTIMATED COVARIANCE MATRIX FOR PARAMETER ESTIMATES

	21	22	23	24	25
21	0.630179D-04				
22	-0.102564D-20	0.466358D-02			
23	-0.195905D-20	-0.523630D-19	0.123052D-01		
24	-0.431918D-06	-0.125883D-18	0.551732D-19	0.206486D-01	
25	-0.137339D-04	-0.823420D-19	-0.230803D-18	0.121454D-02	0.207978D-02
26	-0.256659D-04	0.314861D-21	-0.277416D-18	0.619835D-04	0.180915D-03

ESTIMATED COVARIANCE MATRIX FOR PARAMETER ESTIMATES

	26
26	0.413995D-03

ESTIMATED CORRELATION MATRIX FOR PARAMETER ESTIMATES

	1	2	3	4	5
1	1.000				
2	-0.047	1.000			
3	0.000	0.000	1.000		
4	0.000	0.001	0.075	1.000	
5	-0.006	0.009	-0.001	0.001	1.000
6	0.000	0.000	0.003	0.030	0.000
7	0.045	0.027	0.000	-0.006	0.025
8	0.002	0.000	0.046	-0.016	-0.002
9	0.001	-0.003	0.033	0.013	0.000
10	0.000	0.000	0.000	0.000	0.000
11	0.000	0.000	0.000	0.000	0.000
12	0.000	0.000	0.000	0.000	0.000
13	-0.001	0.000	-0.042	0.011	0.001
14	-0.012	0.039	0.000	0.001	-0.005
15	-0.002	0.001	-0.011	-0.045	-0.002
16	0.000	0.000	-0.004	0.000	-0.001
17	0.000	0.000	0.012	0.050	-0.001
18	0.018	-0.028	0.002	-0.004	-0.166
19	-0.007	0.014	0.002	0.033	-0.002
20	0.000	-0.002	0.013	-0.078	-0.003
21	0.001	0.000	-0.002	-0.098	-0.001
22	0.000	0.000	0.000	0.000	0.000
23	0.000	0.000	0.000	0.000	0.000
24	0.000	0.000	0.000	0.000	-0.017
25	-0.001	-0.001	-0.017	0.002	-0.003
26	0.000	0.000	-0.021	0.069	0.002

ESTIMATED CORRELATION MATRIX FOR PARAMETER ESTIMATES

	6	7	8	9	10
6	1.000				
7	-0.002	1.000			
8	-0.025	0.080	1.000		
9	0.021	0.018	-0.147	1.000	
10	0.000	0.000	0.000	0.000	1.000
11	0.000	0.000	0.000	0.000	0.000
12	0.000	0.000	0.000	0.000	0.000
13	0.025	-0.007	-0.740	0.142	0.000
14	0.003	0.056	0.011	0.003	0.000
15	0.033	-0.033	0.101	-0.011	0.000
16	0.003	0.004	-0.094	0.021	0.000
17	-0.029	0.013	-0.088	0.001	0.000

18	-0.001	-0.111	0.006	0.006	0.000
19	0.018	-0.147	-0.012	-0.102	0.000
20	-0.075	0.003	-0.031	-0.034	0.000
21	-0.296	0.008	0.063	-0.045	0.000
22	0.000	0.000	0.000	0.000	0.000
23	0.000	0.000	0.000	0.000	0.000
24	0.000	0.000	-0.005	0.001	0.000
25	0.018	0.015	-0.352	0.091	0.000
26	-0.024	0.004	-0.044	0.017	0.000

ESTIMATED CORRELATION MATRIX FOR PARAMETER ESTIMATES

	11	12	13	14	15
11	1.000				
12	0.000	1.000			
13	0.000	0.100	1.000		
14	0.000	0.000	-0.008	1.000	
15	0.000	0.000	-0.072	0.008	1.000
16	0.000	0.000	0.110	-0.011	-0.016
17	0.000	0.000	0.071	-0.004	-0.658
18	0.000	0.000	-0.002	0.021	-0.002
19	0.000	0.000	0.006	0.042	0.174
20	0.000	0.000	0.029	-0.001	0.003
21	0.000	0.000	-0.059	0.009	-0.027
22	0.000	0.000	0.000	0.000	0.000
23	0.000	0.000	0.000	0.000	0.000
24	0.000	0.000	0.006	-0.001	-0.001
25	0.000	0.001	0.411	-0.007	-0.050
26	0.000	0.000	0.054	-0.016	-0.050

ESTIMATED CORRELATION MATRIX FOR PARAMETER ESTIMATES

	16	17	18	19	20
16	1.000				
17	0.042	1.000			
18	0.004	0.006	1.000		
19	-0.010	-0.081	0.191	1.000	
20	0.013	-0.022	0.032	0.089	1.000
21	-0.007	0.010	0.006	-0.048	0.181
22	0.000	0.000	0.000	0.000	0.000
23	0.000	0.000	0.000	0.000	0.000
24	0.055	0.002	0.003	0.000	0.001
25	0.282	0.111	0.012	-0.022	0.014
26	0.007	0.096	-0.012	0.056	-0.394

ESTIMATED CORRELATION MATRIX FOR PARAMETER ESTIMATES

	21	22	23	24	25
21	1.000				
22	0.000	1.000			
23	0.000	0.000	1.000		
24	0.000	0.000	0.000	1.000	
25	-0.038	0.000	0.000	0.185	1.000
26	-0.159	0.000	0.000	0.021	0.195

ESTIMATED CORRELATION MATRIX FOR PARAMETER ESTIMATES

	26
26	1.000

TECHNICAL 8 OUTPUT

E STEP	ITER	LOGLIKELIHOOD	ABS CHANGE	REL CHANGE	ALGORITHM
	1	-0.25602677D+04	0.0000000	0.0000000	EM
	2	-0.22955547D+04	264.7129888	0.1033927	EM
	3	-0.22476789D+04	47.8758304	0.0208559	EM
	4	-0.22268175D+04	20.8613811	0.0092813	EM
	5	-0.22162030D+04	10.6145381	0.0047667	EM
	6	-0.22104094D+04	5.7936002	0.0026142	EM
	7	-0.22070088D+04	3.4005477	0.0015384	EM
	8	-0.22048596D+04	2.1492277	0.0009738	EM
	9	-0.22034073D+04	1.4523625	0.0006587	EM
	10	-0.22023698D+04	1.0374453	0.0004708	EM
	11	-0.22015955D+04	0.7742653	0.0003516	EM
	12	-0.22009977D+04	0.5978461	0.0002716	EM
	13	-0.22005237D+04	0.4740238	0.0002154	EM
	14	-0.22001399D+04	0.3838231	0.0001744	EM
	15	-0.21998237D+04	0.3161188	0.0001437	EM
	16	-0.21995597D+04	0.2640541	0.0001200	EM
	17	-0.21993365D+04	0.2232123	0.0001015	EM
	18	-0.21991458D+04	0.1906403	0.0000867	EM
	19	-0.21989815D+04	0.1642959	0.0000747	EM
	20	-0.21988388D+04	0.1427294	0.0000649	EM
	21	-0.21987139D+04	0.1248862	0.0000568	EM
	22	-0.21986039D+04	0.1099845	0.0000500	EM
	23	-0.21985065D+04	0.0974339	0.0000443	EM
	24	-0.21984197D+04	0.0867828	0.0000395	EM
	25	-0.21983420D+04	0.0776804	0.0000353	EM
	26	-0.21982722D+04	0.0698521	0.0000318	EM
	27	-0.21982091D+04	0.0630790	0.0000287	EM
	28	-0.21981519D+04	0.0571872	0.0000260	EM
	29	-0.21980999D+04	0.0520361	0.0000237	EM
	30	-0.21980524D+04	0.0475100	0.0000216	EM
	31	-0.21980089D+04	0.0435164	0.0000198	EM
	32	-0.21979689D+04	0.0399770	0.0000182	EM
	33	-0.21979320D+04	0.0368283	0.0000168	EM
	34	-0.21978980D+04	0.0340164	0.0000155	EM
	35	-0.21978665D+04	0.0314966	0.0000143	EM
	36	-0.21977383D+04	0.1282198	0.0000583	FS
	37	-0.21974192D+04	0.3190912	0.0001452	EM
	38	-0.21973312D+04	0.0880379	0.0000401	EM
	39	-0.21972933D+04	0.0378758	0.0000172	EM
	40	-0.21972741D+04	0.0191685	0.0000087	EM
	41	-0.21972630D+04	0.0111686	0.0000051	EM
	42	-0.21972557D+04	0.0072653	0.0000033	EM
	43	-0.21972506D+04	0.0051124	0.0000023	EM
	44	-0.21972468D+04	0.0037963	0.0000017	EM
	45	-0.21972439D+04	0.0029249	0.0000013	EM
	46	-0.21972416D+04	0.0023125	0.0000011	EM
	47	-0.21972397D+04	0.0018632	0.0000008	EM
	48	-0.21972382D+04	0.0015231	0.0000007	EM
	49	-0.21972369D+04	0.0012600	0.0000006	EM
	50	-0.21972359D+04	0.0010530	0.0000005	EM
	51	-0.21972350D+04	0.0008881	0.0000004	EM
	52	-0.21972342D+04	0.0007556	0.0000003	EM
	53	-0.21972336D+04	0.0006484	0.0000003	EM
	54	-0.21972330D+04	0.0005610	0.0000003	EM
	55	-0.21972325D+04	0.0004894	0.0000002	EM
	56	-0.21972321D+04	0.0004305	0.0000002	EM
	57	-0.21972317D+04	0.0003819	0.0000002	EM
	58	-0.21972314D+04	0.0003416	0.0000002	EM
	59	-0.21972311D+04	0.0003080	0.0000001	EM
	60	-0.21972308D+04	0.0002800	0.0000001	EM
	61	-0.21972305D+04	0.0002565	0.0000001	EM
	62	-0.21972303D+04	0.0002367	0.0000001	EM
	63	-0.21972301D+04	0.0002200	0.0000001	EM
	64	-0.21972299D+04	0.0002058	0.0000001	EM
	65	-0.21972297D+04	0.0001937	0.0000001	EM
	66	-0.21972295D+04	0.0001833	0.0000001	EM
	67	-0.21972293D+04	0.0001744	0.0000001	EM

68	-0.21972291D+04	0.0001667	0.0000001	EM
69	-0.21972290D+04	0.0001600	0.0000001	EM
70	-0.21972288D+04	0.0001542	0.0000001	EM
71	-0.21972287D+04	0.0001490	0.0000001	EM
72	-0.21972285D+04	0.0001444	0.0000001	EM
73	-0.21972284D+04	0.0001404	0.0000001	EM
74	-0.21972283D+04	0.0001368	0.0000001	EM
75	-0.21972281D+04	0.0001335	0.0000001	EM
76	-0.21972280D+04	0.0001305	0.0000001	EM
77	-0.21972279D+04	0.0001278	0.0000001	EM
78	-0.21972277D+04	0.0001253	0.0000001	EM
79	-0.21972276D+04	0.0001230	0.0000001	EM
80	-0.21972275D+04	0.0001209	0.0000001	EM
81	-0.21972274D+04	0.0001189	0.0000001	EM
82	-0.21972273D+04	0.0001170	0.0000001	EM
83	-0.21972271D+04	0.0001153	0.0000001	EM
84	-0.21972270D+04	0.0001136	0.0000001	EM
85	-0.21972269D+04	0.0001120	0.0000001	EM
86	-0.21972268D+04	0.0001105	0.0000001	EM
87	-0.21972267D+04	0.0001091	0.0000000	EM
88	-0.21972266D+04	0.0001077	0.0000000	EM
89	-0.21972265D+04	0.0001063	0.0000000	EM
90	-0.21972264D+04	0.0001050	0.0000000	EM
91	-0.21972263D+04	0.0001038	0.0000000	EM
92	-0.21972262D+04	0.0001026	0.0000000	EM
93	-0.21972261D+04	0.0001014	0.0000000	EM
94	-0.21972260D+04	0.0001002	0.0000000	EM
95	-0.21972259D+04	0.0000991	0.0000000	EM
96	-0.21972258D+04	0.0000980	0.0000000	EM
97	-0.21972257D+04	0.0000969	0.0000000	EM
98	-0.21972256D+04	0.0000959	0.0000000	EM
99	-0.21972255D+04	0.0000949	0.0000000	EM
100	-0.21972254D+04	0.0000939	0.0000000	EM
101	-0.21972253D+04	0.0000929	0.0000000	EM
102	-0.21972252D+04	0.0000919	0.0000000	EM
103	-0.21972251D+04	0.0000909	0.0000000	EM
104	-0.21972250D+04	0.0000900	0.0000000	EM
105	-0.21972249D+04	0.0000891	0.0000000	EM
106	-0.21972248D+04	0.0000882	0.0000000	EM
107	-0.21972248D+04	0.0000873	0.0000000	EM
108	-0.21972247D+04	0.0000864	0.0000000	EM
109	-0.21972246D+04	0.0000855	0.0000000	EM
110	-0.21972245D+04	0.0000847	0.0000000	EM
111	-0.21972244D+04	0.0000838	0.0000000	EM
112	-0.21972243D+04	0.0000830	0.0000000	EM
113	-0.21972243D+04	0.0000822	0.0000000	EM
114	-0.21972242D+04	0.0000814	0.0000000	EM
115	-0.21972241D+04	0.0000806	0.0000000	EM
116	-0.21972240D+04	0.0000798	0.0000000	EM
117	-0.21972239D+04	0.0000790	0.0000000	EM
118	-0.21972239D+04	0.0000782	0.0000000	EM
119	-0.21972238D+04	0.0000775	0.0000000	EM
120	-0.21972237D+04	0.0000767	0.0000000	EM
121	-0.21972140D+04	0.0097454	0.0000044	QN
122	-0.21972140D+04	0.0000004	0.0000000	EM

TECHNICAL 8 OUTPUT FOR THE H1 MODEL

E STEP	ITER	LOGLIKELIHOOD	ABS CHANGE	REL CHANGE	ALGORITHM
	1	-0.22813273D+04	0.0000000	0.0000000	EM
	2	-0.22325388D+04	48.7885710	0.0213860	EM
	3	-0.22324179D+04	0.1208934	0.0000542	EM
	4	-0.22324137D+04	0.0041896	0.0000019	EM
	5	-0.22324135D+04	0.0002245	0.0000001	EM
	6	-0.22324134D+04	0.0000139	0.0000000	EM

DIAGRAM INFORMATION

  Mplus diagrams are currently not available for multilevel analysis.
  No diagram output was produced.

     Beginning Time: 19:31:10
        Ending Time: 19:31:12
       Elapsed Time: 00:00:02

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