

Associations of Well-Being Levels, Changes and Within-Person Variability with Late-Life All-Cause Mortality Across 12 Years: Contrasting Hedonic vs. Eudaimonic Well-Being Among Very Old Adults

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Online Supplement: Mplus Outputs

Mplus outputs for all multilevel SEM analyses are printed on the following pages:

- p. 2: Single model including within-person model for autonomy
- p. 12: Single model including within-person model for environmental mastery
- p. 27: Single model including within-person model for purpose in life
- p. 53: Single model including within-person model for self acceptance
- p. 79: Single model including within-person model for life satisfaction
- p. 94: Single model including within-person model for positive affect
- p. 109: Single model including within-person model for negative affect
- p. 143: Full model including within-person model for all well-being indicators

Outputs have been shortened a bit to reduce length of this supplement – in particular, we deleted „technical 1“ and „technical 16“ outputs.

Mplus Output Single Multilevel SEM – Autonomy:

Mplus VERSION 8.5
MUTHEN & MUTHEN
10/12/2021 3:33 PM

INPUT INSTRUCTIONS

TITLE:

DATA: FILE = mpltry6.dat;

VARIABLE:

```
names = pno wave sex yol verst nopart
        basagec90 agec90 tims tsbase
        ttd ttdcens basettd basttdc
        aut pil ema sac dep
        pa na swls adlinv hyp
        visus sfenerg sfsofunc sfpain sfgen sfchang
        anges anget akzet mortinv mortperc
        basadlinv basvisus bashkr bassssc
        bassfen bassfso bassfpain bassfgen bassfcha
        hkr sl sssco;
usevariables = aut tsbase basttdc bashkr bassssc basagec90 sex yol;
cluster = PNO;
missing = .;
within = tsbase;
between = basttdc bashkr bassssc basagec90 sex yol;
```

DEFINE:

center sex yol (grandmean);

ANALYSIS:

```
type = twolevel random;
estimator = BAYES;
chains = 2;
biterations=1000000;
BCONVERGENCE = 0.00125;
```

MODEL:

%WITHIN%

```
slopeaut | aut ON tsbase;
lnvaut | aut;
```

%BETWEEN%

```
physcon BY bashkr@1;
physcon BY bassssc*0.36035;
```

```
basttdc ON
aut*-2.53474
sex*2.22897
yol*-0.15840
basagec90*-0.17061
physcon*0.64851
slopeaut*7.00908
lnvaut*1.81797;
```

```
aut WITH slopeaut*-0.00064;
aut WITH lnvaut*0.11350;
slopeaut WITH lnvaut*-0.00053;
```

```
[ basttdc*19.68536 ];
[ bashkr*18.59694 ];
[ bassssc*1.62528 ];
[ aut*4.03331 ] (m1);
[ slopeaut*-0.00564 ] (ms1);
[ lnvaut*-2.05118 ] (mv1);
```

```
basttdc*5.33211;
```

```
bashkr*36.53531;
bassssc*1.98520;
aut*0.27312;
physcon*6.84194;
slopeaut*0.00042;
lnvaut*0.33703;
```

MODEL PRIORS:

```
m1 ~ N(3.98,0.048);
ms1 ~ N(-0.006,0.000004);
```

OUTPUT:

```
standardized tech5 tech8 tech16;
```

*** WARNING in VARIABLE command

Note that only the first 8 characters of variable names are used in the output.
Shorten variable names to avoid any confusion.

*** WARNING in MODEL command

In the MODEL command, the following variable is an x-variable on the BETWEEN level and a y-variable on the WITHIN level. This variable will be treated as a y-variable on both levels: AUT

*** WARNING

One or more individual-level variables have no variation within a cluster for the following clusters.

Variable Cluster IDs with no within-cluster variation

AUT 10130 11297 16142 16798 11258 15175

3 WARNING(S) FOUND IN THE INPUT INSTRUCTIONS

SUMMARY OF ANALYSIS

Number of groups	1
Number of observations	682

Number of dependent variables	4
Number of independent variables	4
Number of continuous latent variables	3

Observed dependent variables

Continuous				
BASTTDC	BASHKR	BASSSSC	AUT	

Observed independent variables

TSBASE	BASAGEC9	SEX	YOL
--------	----------	-----	-----

Continuous latent variables

PHYSCON	SLOPEAUT	LNVAUT
---------	----------	--------

Variables with special functions

Cluster variable	PNO
------------------	-----

Within variables

TSBASE

Between variables

BASTTDC	BASHKR	BASSSSC	BASAGEC9	SEX	YOL
---------	--------	---------	----------	-----	-----

Centering (GRANDMEAN)

SEX	YOL
-----	-----

Estimator	BAYES
-----------	-------

Specifications for Bayesian Estimation

Point estimate	MEDIAN
----------------	--------

```

Number of Markov chain Monte Carlo (MCMC) chains          2
Random seed for the first chain                            0
Starting value information                                UNPERTURBED
Algorithm used for Markov chain Monte Carlo                GIBBS(PX1)
Convergence criterion                                    0.125D-02
Maximum number of iterations                             1000000
K-th iteration used for thinning                          1

```

```

Input data file(s)
  mpltry6.dat
Input data format  FREE

```

SUMMARY OF DATA

```

Number of clusters          124

Size (s)    Cluster ID with Size s

  1      10026 10130 10144 10313 10473 10558 10567 10637 10663
          10893 10901 10907 10911 10939 10969 11157 11240 11294
          11297 11741 15018 15177 15241 15319 15564 16142 16423
          16610 16669 16798 17542 18507 18650
  2      15239 11258 10181 15510 10615 11341 16303 11371 16510
          11384 11485 11028 16862 10211 17780 18004 18252 15175
          10228
  3      11573 11295 17130 11100 17745 10340 10460 10461 10210
          11501
  4      10904 11457 10434 11493 10811 17593
  5      15424 10666 12411 11343 11005
  6      10159 15092 15121 15426 11593 11163 10139 16220 19067
  7      10354 11230 10894 10724 10470
  8      10252 10528 11038 10033 11336 11253
  9      15623 11055
 10      12037 10167 17197 15009 19500
 11      11233 10444 15714 10533
 12      11079 10577 15378 12714 10986 10428
 13      11420 11002
 14      11450
 15      10108 10906 10551 15231 10902
 16      15141 10940 16103 15472 11528 11378

```

COVARIANCE COVERAGE OF DATA

Minimum covariance coverage value 0.100

Number of missing data patterns 7

PROPORTION OF DATA PRESENT

	Covariance Coverage				
	BASTTDC	BASHKR	BASSSSC	AUT	TSBASE
BASTTDC	0.944				
BASHKR	0.912	0.968			
BASSSSC	0.935	0.968	0.991		
AUT	0.921	0.949	0.971	0.977	
TSBASE	0.944	0.968	0.991	0.977	1.000
BASAGEC9	0.944	0.968	0.991	0.977	1.000
SEX	0.944	0.968	0.991	0.977	1.000
YOL	0.944	0.968	0.991	0.977	1.000

	Covariance Coverage		
	BASAGEC9	SEX	YOL
BASAGEC9	1.000		
SEX	1.000	1.000	
YOL	1.000	1.000	1.000

UNIVARIATE SAMPLE STATISTICS

UNIVARIATE HIGHER-ORDER MOMENT DESCRIPTIVE STATISTICS

Variable/ Sample Size	Mean/ Variance	Skewness/ Kurtosis	Minimum/ Maximum	% with Min/Max	20%/60%	Percentiles 40%/80%	Median
BASTTDC	5.519	0.456	0.250	0.83%	2.250	4.250	5.083
120.000	10.267	-0.614	12.667	1.67%	6.083	8.250	
BASHKR	18.519	1.282	5.330	0.89%	12.330	16.500	17.750
112.000	48.308	2.780	49.000	0.89%	18.670	23.330	
BASSSSC	1.333	0.640	0.000	53.33%	0.000	0.000	0.000
120.000	2.606	-1.294	4.000	17.50%	1.000	3.000	
AUT	3.892	-0.192	2.222	0.30%	3.333	3.778	3.889
666.000	0.344	-0.528	5.000	2.70%	4.111	4.444	
TSBASE	36.711	0.258	0.000	3.08%	13.000	27.000	36.000
682.000	594.554	-0.917	91.000	0.59%	41.000	60.000	
BASAGEC90	0.106	0.407	-3.917	0.81%	-2.833	-1.250	-0.792
124.000	8.313	-1.090	6.417	0.81%	0.500	3.083	
SEX	0.000	-1.426	-0.790	20.97%	-0.790	0.210	0.210
124.000	0.166	0.035	0.210	79.03%	0.210	0.210	
YOL	0.000	0.868	-3.387	20.97%	-3.387	-1.387	-1.387
124.000	8.737	-0.315	5.613	17.74%	0.613	0.613	

THE MODEL ESTIMATION TERMINATED NORMALLY

USE THE FBITERATIONS OPTION TO INCREASE THE NUMBER OF ITERATIONS BY A FACTOR
OF AT LEAST TWO TO CHECK CONVERGENCE AND THAT THE PSR VALUE DOES NOT INCREASE.

MODEL FIT INFORMATION

Number of Free Parameters	24
Information Criteria	
Deviance (DIC)	2751.296
Estimated Number of Parameters (pD)	233.194

MODEL RESULTS

	Estimate	Posterior S.D.	One-Tailed P-Value	95% C.I. Lower 2.5%	Upper 2.5%	Significance
Within Level						
Between Level						
PHYSCON BY						
BASHKR	1.000	0.000	0.000	1.000	1.000	
BASSSSC	0.381	0.323	0.000	0.157	1.371	*
BASTTDC ON						
PHYSCON	0.574	0.359	0.000	0.269	1.578	*
SLOPEAUT	-4.847	16.634	0.382	-37.363	27.912	
LNVAUT	2.064	0.955	0.007	0.450	4.199	*
BASTTDC ON						
AUT	-2.178	0.977	0.007	-4.275	-0.449	*
SEX	1.693	0.721	0.009	0.311	3.126	*
YOL	-0.222	0.090	0.008	-0.402	-0.045	*
BASAGEC90	-0.254	0.094	0.004	-0.436	-0.069	*
AUT WITH						
SLOPEAUT	-0.003	0.002	0.034	-0.006	0.000	
LNVAUT	0.118	0.062	0.026	-0.002	0.246	

SLOPEAUT WITH LNVAUT	-0.003	0.003	0.133	-0.008	0.002	
Means						
AUT	4.014	0.051	0.000	3.915	4.117	*
SLOPEAUT	-0.005	0.002	0.004	-0.008	-0.001	*
LNVAUT	-2.093	0.126	0.000	-2.355	-1.858	*
Intercepts						
BASTTDC	18.646	5.310	0.000	9.734	30.458	*
BASHKR	18.466	0.673	0.000	17.143	19.768	*
BASSSSC	1.329	0.152	0.000	1.028	1.628	*
Variances						
AUT	0.227	0.047	0.000	0.151	0.334	*
PHYSCON	8.223	5.911	0.000	0.906	23.453	*
SLOPEAUT	0.001	0.000	0.000	0.000	0.001	*
LNVAUT	0.390	0.145	0.000	0.193	0.751	*
Residual Variances						
BASTTDC	5.170	1.455	0.000	2.663	8.331	*
BASHKR	41.931	7.484	0.000	28.345	57.932	*
BASSSSC	1.504	0.579	0.000	0.141	2.483	*
STANDARDIZED MODEL RESULTS						
STDYX Standardization						
	Estimate	Posterior S.D.	One-Tailed P-Value	95% C.I. Lower 2.5% Upper 2.5%		Significance
Within-Level Standardized Estimates Averaged Over Clusters						
SLOPEAUT AUT ON TSBASE	-0.063	0.024	0.003	-0.109	-0.014	*
LNVAUT AUT	0.878	0.015	0.000	0.847	0.905	*
Between Level						
PHYSCON BY						
BASHKR	0.404	0.130	0.000	0.137	0.653	*
BASSSSC	0.664	0.152	0.000	0.374	0.974	*
BASTTDC ON						
PHYSCON	0.495	0.117	0.000	0.270	0.723	*
SLOPEAUT	-0.034	0.116	0.382	-0.258	0.194	
LNVAUT	0.399	0.162	0.007	0.081	0.711	*
BASTTDC ON						
AUT	-0.315	0.141	0.007	-0.617	-0.064	*
SEX	0.149	0.061	0.009	0.028	0.267	*
YOL	-0.143	0.057	0.008	-0.253	-0.029	*
BASAGEC90	-0.148	0.054	0.004	-0.251	-0.040	*
AUT WITH						
SLOPEAUT	-0.244	0.127	0.034	-0.477	0.020	
LNVAUT	0.410	0.192	0.026	-0.005	0.734	
SLOPEAUT WITH LNVAUT	-0.183	0.156	0.133	-0.470	0.139	
Means						
AUT	8.415	0.864	0.000	6.950	10.313	*
SLOPEAUT	-0.200	0.077	0.004	-0.355	-0.051	*
LNVAUT	-3.357	0.543	0.000	-4.585	-2.461	*
Intercepts						
BASTTDC	5.654	1.584	0.000	2.962	9.159	*
BASHKR	2.589	0.200	0.000	2.199	2.985	*
BASSSSC	0.806	0.106	0.000	0.596	1.016	*

Variances						
AUT	1.000	0.000	0.000	1.000	1.000	
PHYSCON	1.000	0.000	0.000	1.000	1.000	
SLOPEAUT	1.000	0.000	0.000	1.000	1.000	
LNVAUT	1.000	0.000	0.000	1.000	1.000	
Residual Variances						
BASTTDC	0.478	0.125	0.000	0.243	0.730	*
BASHKR	0.837	0.106	0.000	0.574	0.981	*
BASSSSC	0.559	0.206	0.000	0.051	0.860	*
STDY Standardization						
	Estimate	Posterior S.D.	One-Tailed P-Value	95% C.I. Lower 2.5% Upper 2.5%		Significance
Within-Level Standardized Estimates Averaged Over Clusters						
SLOPEAUT AUT ON TSBASE	-0.006	0.007	0.190	-0.019	0.008	
LNVAUT AUT	0.878	0.015	0.000	0.847	0.905	*
Between Level						
PHYSCON BY BASHKR	0.404	0.130	0.000	0.137	0.653	*
BASSSSC	0.664	0.152	0.000	0.374	0.974	*
BASTTDC ON PHYSCON	0.495	0.117	0.000	0.270	0.723	*
SLOPEAUT	-0.034	0.116	0.382	-0.258	0.194	
LNVAUT	0.399	0.162	0.007	0.081	0.711	*
BASTTDC ON AUT	-0.315	0.141	0.007	-0.617	-0.064	*
SEX	0.513	0.211	0.009	0.095	0.916	*
YOL	-0.067	0.027	0.008	-0.120	-0.014	*
BASAGEC90	-0.077	0.028	0.004	-0.131	-0.021	*
AUT WITH SLOPEAUT	-0.244	0.127	0.034	-0.477	0.020	
LNVAUT	0.410	0.192	0.026	-0.005	0.734	
SLOPEAUT WITH LNVAUT	-0.183	0.156	0.133	-0.470	0.139	
Means						
AUT	8.415	0.864	0.000	6.950	10.313	*
SLOPEAUT	-0.200	0.077	0.004	-0.355	-0.051	*
LNVAUT	-3.357	0.543	0.000	-4.585	-2.461	*
Intercepts						
BASTTDC	5.654	1.584	0.000	2.962	9.159	*
BASHKR	2.589	0.200	0.000	2.199	2.985	*
BASSSSC	0.806	0.106	0.000	0.596	1.016	*
Variances						
AUT	1.000	0.000	0.000	1.000	1.000	
PHYSCON	1.000	0.000	0.000	1.000	1.000	
SLOPEAUT	1.000	0.000	0.000	1.000	1.000	
LNVAUT	1.000	0.000	0.000	1.000	1.000	
Residual Variances						
BASTTDC	0.478	0.125	0.000	0.243	0.730	*
BASHKR	0.837	0.106	0.000	0.574	0.981	*
BASSSSC	0.559	0.206	0.000	0.051	0.860	*

STD Standardization

	Estimate	Posterior S.D.	One-Tailed P-Value	95% C.I.		Significance
Within-Level Standardized Estimates Averaged Over Clusters						
SLOPEAUT AUT ON TSBASE	-0.003	0.002	0.054	-0.007	0.001	
LNVAUT AUT	0.146	0.013	0.000	0.121	0.171	*
Between Level						
PHYSCON BY BASHKR	2.868	0.979	0.000	0.952	4.843	*
BASSSSC	1.097	0.270	0.000	0.600	1.643	*
BASTTDC ON PHYSCON	1.635	0.418	0.000	0.864	2.503	*
SLOPEAUT	-0.112	0.386	0.382	-0.867	0.649	
LNVAUT	1.316	0.543	0.007	0.267	2.386	*
BASTTDC ON AUT	-2.178	0.977	0.007	-4.275	-0.449	*
SEX	1.693	0.721	0.009	0.311	3.126	*
YOL	-0.222	0.090	0.008	-0.402	-0.045	*
BASAGEC90	-0.254	0.094	0.004	-0.436	-0.069	*
AUT WITH SLOPEAUT	-0.116	0.066	0.034	-0.251	0.009	
LNVAUT	0.193	0.097	0.026	-0.002	0.377	
SLOPEAUT WITH LNVAUT	-0.183	0.156	0.133	-0.470	0.139	
Means						
AUT	4.014	0.051	0.000	3.915	4.117	*
SLOPEAUT	-0.200	0.077	0.004	-0.355	-0.051	*
LNVAUT	-3.357	0.543	0.000	-4.585	-2.461	*
Intercepts						
BASTTDC	18.646	5.310	0.000	9.734	30.458	*
BASHKR	18.466	0.673	0.000	17.143	19.768	*
BASSSSC	1.329	0.152	0.000	1.028	1.628	*
Variances						
AUT	0.227	0.047	0.000	0.151	0.334	*
PHYSCON	1.000	0.000	0.000	1.000	1.000	
SLOPEAUT	1.000	0.000	0.000	1.000	1.000	
LNVAUT	1.000	0.000	0.000	1.000	1.000	
Residual Variances						
BASTTDC	5.170	1.455	0.000	2.663	8.331	*
BASHKR	41.931	7.484	0.000	28.345	57.932	*
BASSSSC	1.504	0.579	0.000	0.141	2.483	*
R-SQUARE						
Within-Level R-Square Averaged Across Clusters						
Variable	Estimate	Posterior S.D.	One-Tailed P-Value	95% C.I.		
AUT	0.122	0.015	0.000	0.095	0.153	
Between Level						
Variable	Estimate	Posterior S.D.	One-Tailed P-Value	95% C.I.		
BASTTDC	0.522	0.125	0.000	0.269	0.756	
BASHKR	0.163	0.106	0.000	0.019	0.426	
BASSSSC	0.441	0.206	0.000	0.140	0.949	

TECHNICAL 8 OUTPUT

TECHNICAL 8 OUTPUT FOR BAYES ESTIMATION

CHAIN	BSEED
1	0
2	285380

ITERATION	POTENTIAL SCALE REDUCTION	PARAMETER WITH HIGHEST PSR
100	2.381	3
200	2.424	3
300	1.666	5
400	1.306	20
500	1.388	17
600	1.707	17
700	1.565	3
800	1.610	20
900	1.526	20
1000	1.461	7
1100	1.481	7
1200	1.348	7
1300	1.168	10
1400	1.242	10
1500	1.191	10
1600	1.192	10
1700	1.204	17
1800	1.247	17
1900	1.151	17
2000	1.127	17
2100	1.209	17
2200	1.292	17
2300	1.354	17
2400	1.399	17
2500	1.402	17
2600	1.388	17
2700	1.177	17
2800	1.141	10
2900	1.130	10
3000	1.111	10
3100	1.089	10
3200	1.094	10
3300	1.091	10
3400	1.084	10
3500	1.084	10
3600	1.078	10
3700	1.095	10
3800	1.099	10
3900	1.099	10
4000	1.111	10
4100	1.096	10
4200	1.072	10
4300	1.069	10
4400	1.072	20
4500	1.099	20
4600	1.108	20
4700	1.111	20
4800	1.103	20
4900	1.054	10
5000	1.062	10
5100	1.038	10
5200	1.032	20
5300	1.029	20
5400	1.029	20
5500	1.032	20
5600	1.040	7
5700	1.051	7
5800	1.056	20
5900	1.075	20
6000	1.086	20
6100	1.097	20

6200	1.106	20
6300	1.104	20
6400	1.109	20
6500	1.106	20
6600	1.098	20
6700	1.092	20
6800	1.093	20
6900	1.094	20
7000	1.093	20
7100	1.082	20
7200	1.077	20
7300	1.067	20
7400	1.050	20
7500	1.042	20
7600	1.041	20
7700	1.043	20
7800	1.048	20
7900	1.045	20
8000	1.041	20
8100	1.045	7
8200	1.047	7
8300	1.042	7
8400	1.036	7
8500	1.036	23
8600	1.040	23
8700	1.036	23
8800	1.031	23
8900	1.029	23
9000	1.031	23
9100	1.029	23
9200	1.028	17
9300	1.034	17
9400	1.031	17
9500	1.034	3
9600	1.035	3
9700	1.036	3
9800	1.041	3
9900	1.047	3
10000	1.050	3
10100	1.049	17
10200	1.049	17
10300	1.044	17
10400	1.038	17
10500	1.038	17
10600	1.033	17
10700	1.031	17
10800	1.028	17
10900	1.025	17
11000	1.020	17
11100	1.017	23
11200	1.015	23
11300	1.011	17
11400	1.011	17
11500	1.011	17
11600	1.008	17
11700	1.007	17
11800	1.008	17
11900	1.008	17
12000	1.008	17
12100	1.008	17
12200	1.007	17
12300	1.005	17
12400	1.004	13
12500	1.005	23
12600	1.006	7
12700	1.008	7
12800	1.010	7
12900	1.009	7
13000	1.008	7
13100	1.007	7
13200	1.004	13
13300	1.003	13
13400	1.006	20
13500	1.009	20

13600	1.009	20
13700	1.009	20
13800	1.010	20
13900	1.008	20
14000	1.008	20
14100	1.006	20
14200	1.004	20
14300	1.004	20
14400	1.005	20
14500	1.006	20
14600	1.004	3
14700	1.008	3
14800	1.014	3
14900	1.018	3
15000	1.021	3
15100	1.022	3
15200	1.022	3
15300	1.024	3
15400	1.026	3
15500	1.031	3
15600	1.031	3
15700	1.035	3
15800	1.035	3
15900	1.039	3
16000	1.038	3
16100	1.033	3
16200	1.025	3
16300	1.019	3
16400	1.014	3
16500	1.013	3
16600	1.011	3
16700	1.010	3
16800	1.010	3
16900	1.011	3
17000	1.012	3
17100	1.011	3
17200	1.009	3
17300	1.009	20
17400	1.009	20
17500	1.009	20
17600	1.009	20
17700	1.010	20
17800	1.008	20
17900	1.007	20
18000	1.004	20
18100	1.003	20
18200	1.002	21

TECHNICAL 5 OUTPUT

DIAGRAM INFORMATION

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

Beginning Time: 15:33:17
Ending Time: 15:36:23
Elapsed Time: 00:03:06

MUTHEN & MUTHEN
3463 Stoner Ave.
Los Angeles, CA 90066

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Fax: (310) 391-8971
Web: www.StatModel.com
Support: Support@StatModel.com

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Mplus Output Single Multilevel SEM – Environmental Mastery:

```

Mplus VERSION 8.5
MUTHEN & MUTHEN
10/15/2021 7:03 PM

INPUT INSTRUCTIONS

TITLE:

DATA: FILE = mpltry6.dat;

VARIABLE:
  NAMES = pno wave sex yol verst nopart
          basagec90 agec90 tims tsbase
          ttd ttdcens basettd basttdc
          aut pil ema sac dep
          pa na swls adlinv hyp
          visus sfenerg sfsofunc sfpain sfgen sfchang
          anges anget akzet mortinv mortperc
          basadlinv basvisus bashkr bassssc
          bassfen bassfso bassfpain bassfgen bassfcha
          hkr sl sssco;
  USEVARIABLES = ema tsbase basttdc bashkr bassssc basagec90 sex yol;
  CLUSTER = PNO;
  MISSING = .;
  WITHIN = tsbase;
  BETWEEN = basttdc bashkr bassssc basagec90 sex yol;

DEFINE:
  CENTER sex yol (grandmean);

ANALYSIS:
  TYPE = TWOLEVEL RANDOM;
  ESTIMATOR = BAYES;
  CHAINS = 2;
  BITERATIONS=1000000;
  BCONVERGENCE = 0.00125;

MODEL:

%WITHIN%

slopeema | ema ON tsbase;
lnvema | ema;

%BETWEEN%

physcon BY bashkr@1;
          bassssc*0.29379;

basttdc ON ema*-0.41929
          sex*2.80529
          yol*-0.45843
          basagec90*-0.26795
          physcon*0.44378
          slopeema*5.74904
          lnvema*2.97300;

ema WITH slopeema*-0.00401;
ema WITH lnvema*0.14651;
slopeema WITH lnvema*-0.00271;

[ basttdc*13.85891 ];
[ bashkr*18.96634 ];
[ bassssc*1.25843 ];
[ ema*4.17714 ] (m3);
[ slopeema*-0.01565 ] (ms3);
[ lnvema*-2.05291 ] (mv3);

```

```
basttdc*7.63556;
bashkr*28.79375;
bassssc*1.42364;
ema*0.31594;
physcon*17.30515;
slopeema*0.00072;
lnvema*0.22910;
```

MODEL PRIORS:

```
m3 ~ N(4.05,0.078);
ms3 ~ N(-0.052,0.0001);
```

OUTPUT:

```
standardized tech5 tech8 tech16;
```

*** WARNING in VARIABLE command

Note that only the first 8 characters of variable names are used in the output.
Shorten variable names to avoid any confusion.

*** WARNING in MODEL command

In the MODEL command, the following variable is an x-variable on the BETWEEN level and a y-variable on the WITHIN level. This variable will be treated as a y-variable on both levels: EMA

*** WARNING

One or more individual-level variables have no variation within a cluster for the following clusters.

Variable Cluster IDs with no within-cluster variation

EMA 10969 16142 16798 11384

3 WARNING(S) FOUND IN THE INPUT INSTRUCTIONS

SUMMARY OF ANALYSIS

Number of groups	1
Number of observations	682

Number of dependent variables	4
Number of independent variables	4
Number of continuous latent variables	3

Observed dependent variables

Continuous			
BASTTDC	BASHKR	BASSSSC	EMA

Observed independent variables

TSBASE	BASAGEC9	SEX	YOL
--------	----------	-----	-----

Continuous latent variables

PHYSCON	SLOPEEMA	LNVEMA
---------	----------	--------

Variables with special functions

Cluster variable	PNO
------------------	-----

Within variables

TSBASE

Between variables

BASTTDC	BASHKR	BASSSSC	BASAGEC9	SEX	YOL
---------	--------	---------	----------	-----	-----

Centering (GRANDMEAN)

SEX	YOL
-----	-----

Estimator

BAYES

Specifications for Bayesian Estimation

Point estimate	MEDIAN
Number of Markov chain Monte Carlo (MCMC) chains	2
Random seed for the first chain	0
Starting value information	UNPERTURBED
Algorithm used for Markov chain Monte Carlo	GIBBS(PX1)
Convergence criterion	0.125D-02
Maximum number of iterations	1000000
K-th iteration used for thinning	1

Input data file(s)

mpltry6.dat

Input data format FREE

SUMMARY OF DATA

Number of clusters 124

Size (s)	Cluster ID with Size s
1	10026 10130 10144 10313 10473 10558 10567 10637 10663 10893 10901 10907 10911 10939 10969 11157 11240 11294 11297 11741 15018 15177 15241 15319 15564 16142 16423 16610 16669 16798 17542 18507 18650
2	15239 11258 10181 15510 10615 11341 16303 11371 16510 11384 11485 11028 16862 10211 17780 18004 18252 15175 10228
3	11573 11295 17130 11100 17745 10340 10460 10461 10210 11501
4	10904 11457 10434 11493 10811 17593
5	15424 10666 12411 11343 11005
6	10159 15092 15121 15426 11593 11163 10139 16220 19067
7	10354 11230 10894 10724 10470
8	10252 10528 11038 10033 11336 11253
9	15623 11055
10	12037 10167 17197 15009 19500
11	11233 10444 15714 10533
12	11079 10577 15378 12714 10986 10428
13	11420 11002
14	11450
15	10108 10906 10551 15231 10902
16	15141 10940 16103 15472 11528 11378

COVARIANCE COVERAGE OF DATA

Minimum covariance coverage value 0.100

Number of missing data patterns 8

PROPORTION OF DATA PRESENT

	Covariance Coverage BASTTDC	BASHKR	BASSSSC	EMA	TSBASE
BASTTDC	0.944				
BASHKR	0.912	0.968			
BASSSSC	0.935	0.968	0.991		
EMA	0.921	0.944	0.966	0.974	
TSBASE	0.944	0.968	0.991	0.974	1.000
BASAGEC9	0.944	0.968	0.991	0.974	1.000
SEX	0.944	0.968	0.991	0.974	1.000
YOL	0.944	0.968	0.991	0.974	1.000

	Covariance Coverage BASAGEC9	SEX	YOL
BASAGEC9	1.000		
SEX	1.000	1.000	

YOL 1.000 1.000 1.000

UNIVARIATE SAMPLE STATISTICS

UNIVARIATE HIGHER-ORDER MOMENT DESCRIPTIVE STATISTICS

Variable/ Sample Size	Mean/ Variance	Skewness/ Kurtosis	Minimum/ Maximum	% with Min/Max	20%/60%	Percentiles 40%/80%	Median
BASTTDC	5.519	0.456	0.250	0.83%	2.250	4.250	5.083
120.000	10.267	-0.614	12.667	1.67%	6.083	8.250	
BASHKR	18.519	1.282	5.330	0.89%	12.330	16.500	17.750
112.000	48.308	2.780	49.000	0.89%	18.670	23.330	
BASSSSC	1.333	0.640	0.000	53.33%	0.000	0.000	0.000
120.000	2.606	-1.294	4.000	17.50%	1.000	3.000	
EMA	3.936	-0.567	1.222	0.15%	3.444	3.778	4.000
664.000	0.400	0.104	5.000	2.11%	4.111	4.556	
TSBASE	36.711	0.258	0.000	3.08%	13.000	27.000	36.000
682.000	594.554	-0.917	91.000	0.59%	41.000	60.000	
BASAGEC90	0.106	0.407	-3.917	0.81%	-2.833	-1.250	-0.792
124.000	8.313	-1.090	6.417	0.81%	0.500	3.083	
SEX	0.000	-1.426	-0.790	20.97%	-0.790	0.210	0.210
124.000	0.166	0.035	0.210	79.03%	0.210	0.210	
YOL	0.000	0.868	-3.387	20.97%	-3.387	-1.387	-1.387
124.000	8.737	-0.315	5.613	17.74%	0.613	0.613	

THE MODEL ESTIMATION TERMINATED NORMALLY

USE THE FBITERATIONS OPTION TO INCREASE THE NUMBER OF ITERATIONS BY A FACTOR OF AT LEAST TWO TO CHECK CONVERGENCE AND THAT THE PSR VALUE DOES NOT INCREASE.

MODEL FIT INFORMATION

Number of Free Parameters 24

Information Criteria

Deviance (DIC) 2665.294
Estimated Number of Parameters (pD) 182.895

MODEL RESULTS

	Estimate	Posterior S.D.	One-Tailed P-Value	95% C.I. Lower 2.5%	Upper 2.5%	Significance
Within Level						
Between Level						
PHYSCON BY						
BASHKR	1.000	0.000	0.000	1.000	1.000	
BASSSSC	0.399	0.399	0.000	0.136	1.408	*
BASTTDC ON						
PHYSCON	0.563	0.446	0.000	0.223	1.796	*
SLOPEEMA	10.293	16.820	0.268	-22.607	43.323	
LNVEA	2.368	1.650	0.044	-0.489	5.748	
BASTTDC ON						
EMA	0.736	0.828	0.174	-0.868	2.413	
SEX	1.644	0.733	0.010	0.237	3.128	*
YOL	-0.290	0.092	0.001	-0.470	-0.109	*
BASAGEC90	-0.224	0.095	0.010	-0.411	-0.037	*
EMA WITH						
SLOPEEMA	-0.003	0.002	0.040	-0.007	0.000	

LNVEMA	0.010	0.057	0.428	-0.099	0.126	
SLOPEEMA WITH LNVEMA	-0.001	0.002	0.297	-0.006	0.003	
Means						
EMA	4.128	0.058	0.000	4.013	4.241	*
SLOPEEMA	-0.011	0.003	0.001	-0.017	-0.004	*
LNVEMA	-1.968	0.109	0.000	-2.182	-1.758	*
Intercepts						
BASTTDC	7.187	4.759	0.040	-0.936	17.386	
BASHKR	18.478	0.673	0.000	17.151	19.799	*
BASSSSC	1.332	0.152	0.000	1.031	1.628	*
Variances						
EMA	0.278	0.056	0.000	0.187	0.407	*
PHYSCON	7.177	6.324	0.000	0.767	24.377	*
SLOPEEMA	0.001	0.000	0.000	0.000	0.001	*
LNVEMA	0.196	0.102	0.000	0.054	0.445	*
Residual Variances						
BASTTDC	5.771	1.527	0.000	3.021	8.959	*
BASHKR	42.068	7.901	0.000	26.858	58.323	*
BASSSSC	1.556	0.627	0.000	0.187	2.587	*

STANDARDIZED MODEL RESULTS

STDYX Standardization

	Estimate	Posterior S.D.	One-Tailed P-Value	95% C.I.		Significance
Within-Level Standardized Estimates Averaged Over Clusters						
SLOPEEMA EMA ON TSBASE	-0.159	0.023	0.000	-0.203	-0.112	*
LNVEMA EMA	0.843	0.013	0.000	0.816	0.868	*
Between Level						
PHYSCON BY BASHKR	0.379	0.142	0.000	0.124	0.671	*
BASSSSC	0.649	0.169	0.000	0.328	0.965	*
BASTTDC ON PHYSCON	0.459	0.129	0.000	0.215	0.718	*
SLOPEEMA	0.077	0.125	0.268	-0.166	0.323	
LNVEMA	0.324	0.172	0.044	-0.056	0.617	
BASTTDC ON EMA	0.118	0.130	0.174	-0.141	0.372	
SEX	0.146	0.062	0.010	0.021	0.266	*
YOL	-0.187	0.057	0.001	-0.295	-0.070	*
BASAGEC90	-0.130	0.055	0.010	-0.236	-0.021	*
EMA WITH SLOPEEMA	-0.242	0.131	0.040	-0.479	0.030	
LNVEMA	0.044	0.243	0.428	-0.425	0.521	
SLOPEEMA WITH LNVEMA	-0.097	0.176	0.297	-0.432	0.253	
Means						
EMA	7.827	0.798	0.000	6.456	9.573	*
SLOPEEMA	-0.436	0.136	0.001	-0.704	-0.174	*
LNVEMA	-4.465	1.490	0.000	-8.024	-3.010	*
Intercepts						
BASTTDC	2.187	1.434	0.040	-0.283	5.252	

BASHKR	2.611	0.201	0.000	2.222	3.010	*
BASSSSC	0.809	0.106	0.000	0.599	1.017	*
Variances						
EMA	1.000	0.000	0.000	1.000	1.000	
PHYSCON	1.000	0.000	0.000	1.000	1.000	
SLOPEEMA	1.000	0.000	0.000	1.000	1.000	
LVNEMA	1.000	0.000	0.000	1.000	1.000	
Residual Variances						
BASTTDC	0.535	0.130	0.000	0.276	0.777	*
BASHKR	0.857	0.117	0.000	0.549	0.985	*
BASSSSC	0.579	0.222	0.000	0.069	0.893	*
STDY Standardization						
	Estimate	Posterior S.D.	One-Tailed P-Value	95% C.I. Lower 2.5% Upper 2.5%		Significance
Within-Level Standardized Estimates Averaged Over Clusters						
SLOPEEMA EMA ON TSBASE	-0.019	0.007	0.005	-0.033	-0.006	*
LVNEMA EMA	0.843	0.013	0.000	0.816	0.868	*
Between Level						
PHYSCON BY						
BASHKR	0.379	0.142	0.000	0.124	0.671	*
BASSSSC	0.649	0.169	0.000	0.328	0.965	*
BASTTDC ON						
PHYSCON	0.459	0.129	0.000	0.215	0.718	*
SLOPEEMA	0.077	0.125	0.268	-0.166	0.323	
LVNEMA	0.324	0.172	0.044	-0.056	0.617	
BASTTDC ON						
EMA	0.118	0.130	0.174	-0.141	0.372	
SEX	0.500	0.214	0.010	0.072	0.913	*
YOL	-0.088	0.027	0.001	-0.139	-0.033	*
BASAGEC90	-0.068	0.029	0.010	-0.123	-0.011	*
EMA WITH						
SLOPEEMA	-0.242	0.131	0.040	-0.479	0.030	
LVNEMA	0.044	0.243	0.428	-0.425	0.521	
SLOPEEMA WITH LVNEMA	-0.097	0.176	0.297	-0.432	0.253	
Means						
EMA	7.827	0.798	0.000	6.456	9.573	*
SLOPEEMA	-0.436	0.136	0.001	-0.704	-0.174	*
LVNEMA	-4.465	1.490	0.000	-8.024	-3.010	*
Intercepts						
BASTTDC	2.187	1.434	0.040	-0.283	5.252	
BASHKR	2.611	0.201	0.000	2.222	3.010	*
BASSSSC	0.809	0.106	0.000	0.599	1.017	*
Variances						
EMA	1.000	0.000	0.000	1.000	1.000	
PHYSCON	1.000	0.000	0.000	1.000	1.000	
SLOPEEMA	1.000	0.000	0.000	1.000	1.000	
LVNEMA	1.000	0.000	0.000	1.000	1.000	
Residual Variances						
BASTTDC	0.535	0.130	0.000	0.276	0.777	*
BASHKR	0.857	0.117	0.000	0.549	0.985	*
BASSSSC	0.579	0.222	0.000	0.069	0.893	*

STD Standardization

	Estimate	Posterior S.D.	One-Tailed P-Value	95% C.I.		Significance
				Lower 2.5%	Upper 2.5%	
Within-Level Standardized Estimates Averaged Over Clusters						
SLOPEEMA EMA ON TSBASE	-0.009	0.003	0.000	-0.014	-0.004	*
LNVEMA EMA	0.153	0.015	0.000	0.133	0.194	*
Between Level						
PHYSCON BY BASHKR	2.679	1.055	0.000	0.876	4.937	*
BASSSSC	1.073	0.294	0.000	0.530	1.641	*
BASTTDC ON PHYSCON	1.510	0.451	0.000	0.699	2.458	*
SLOPEEMA	0.253	0.416	0.268	-0.556	1.080	
LNVEMA	1.065	0.576	0.044	-0.183	2.078	
BASTTDC ON EMA	0.736	0.828	0.174	-0.868	2.413	
SEX	1.644	0.733	0.010	0.237	3.128	*
YOL	-0.290	0.092	0.001	-0.470	-0.109	*
BASAGEC90	-0.224	0.095	0.010	-0.411	-0.037	*
EMA WITH SLOPEEMA	-0.126	0.075	0.040	-0.280	0.015	
LNVEMA	0.023	0.131	0.428	-0.221	0.292	
SLOPEEMA WITH LNVEMA	-0.097	0.176	0.297	-0.432	0.253	
Means						
EMA	4.128	0.058	0.000	4.013	4.241	*
SLOPEEMA	-0.436	0.136	0.001	-0.704	-0.174	*
LNVEMA	-4.465	1.490	0.000	-8.024	-3.010	*
Intercepts						
BASTTDC	7.187	4.759	0.040	-0.936	17.386	
BASHKR	18.478	0.673	0.000	17.151	19.799	*
BASSSSC	1.332	0.152	0.000	1.031	1.628	*
Variances						
EMA	0.278	0.056	0.000	0.187	0.407	*
PHYSCON	1.000	0.000	0.000	1.000	1.000	
SLOPEEMA	1.000	0.000	0.000	1.000	1.000	
LNVEMA	1.000	0.000	0.000	1.000	1.000	
Residual Variances						
BASTTDC	5.771	1.527	0.000	3.021	8.959	*
BASHKR	42.068	7.901	0.000	26.858	58.323	*
BASSSSC	1.556	0.627	0.000	0.187	2.587	*

R-SQUARE

Within-Level R-Square Averaged Across Clusters

	Estimate	Posterior S.D.	One-Tailed P-Value	95% C.I.	
Variable				Lower 2.5%	Upper 2.5%
EMA	0.157	0.013	0.000	0.132	0.184
Between Level					
Variable	Estimate	Posterior S.D.	One-Tailed P-Value	Lower 2.5%	Upper 2.5%
BASTTDC	0.465	0.130	0.000	0.223	0.724

BASHKR	0.143	0.117	0.000	0.015	0.450
BASSSC	0.421	0.222	0.000	0.107	0.931

TECHNICAL 8 OUTPUT

TECHNICAL 8 OUTPUT FOR BAYES ESTIMATION

CHAIN	BSEED
1	0
2	285380

ITERATION	POTENTIAL SCALE REDUCTION	PARAMETER WITH HIGHEST PSR
100	3.668	17
200	1.418	20
300	2.224	20
400	1.764	20
500	1.257	23
600	1.132	20
700	1.615	20
800	1.823	20
900	2.270	7
1000	2.335	7
1100	2.233	7
1200	1.968	20
1300	1.905	20
1400	1.838	20
1500	1.849	20
1600	1.849	20
1700	1.959	20
1800	2.035	20
1900	2.090	20
2000	1.921	20
2100	1.841	20
2200	1.708	20
2300	1.500	7
2400	1.430	7
2500	1.249	7
2600	1.255	7
2700	1.147	7
2800	1.090	7
2900	1.067	7
3000	1.056	21
3100	1.037	21
3200	1.034	5
3300	1.048	17
3400	1.064	5
3500	1.080	5
3600	1.085	3
3700	1.082	3
3800	1.058	3
3900	1.045	23
4000	1.031	23
4100	1.022	23
4200	1.024	23
4300	1.016	23
4400	1.018	7
4500	1.027	7
4600	1.036	7
4700	1.042	7
4800	1.038	7
4900	1.046	7
5000	1.050	7
5100	1.043	7
5200	1.047	20
5300	1.053	20
5400	1.064	20
5500	1.057	20
5600	1.041	20
5700	1.049	20

5800	1.062	20
5900	1.067	20
6000	1.067	7
6100	1.068	7
6200	1.065	7
6300	1.063	7
6400	1.050	7
6500	1.038	7
6600	1.031	7
6700	1.031	5
6800	1.032	5
6900	1.032	5
7000	1.028	5
7100	1.023	21
7200	1.021	21
7300	1.017	12
7400	1.019	10
7500	1.023	10
7600	1.024	10
7700	1.027	10
7800	1.030	10
7900	1.033	10
8000	1.032	10
8100	1.031	10
8200	1.034	10
8300	1.037	10
8400	1.035	10
8500	1.035	10
8600	1.035	10
8700	1.036	10
8800	1.039	10
8900	1.038	10
9000	1.039	10
9100	1.047	10
9200	1.053	3
9300	1.058	3
9400	1.059	3
9500	1.061	3
9600	1.064	3
9700	1.062	3
9800	1.060	3
9900	1.062	3
10000	1.063	3
10100	1.057	3
10200	1.055	3
10300	1.053	3
10400	1.049	3
10500	1.048	3
10600	1.049	3
10700	1.048	3
10800	1.049	3
10900	1.050	3
11000	1.049	3
11100	1.047	3
11200	1.049	3
11300	1.049	3
11400	1.049	3
11500	1.048	3
11600	1.047	3
11700	1.048	7
11800	1.052	7
11900	1.055	7
12000	1.063	7
12100	1.066	7
12200	1.072	7
12300	1.076	7
12400	1.081	7
12500	1.077	7
12600	1.074	7
12700	1.078	7
12800	1.085	7
12900	1.089	7
13000	1.098	7
13100	1.104	20

13200	1.104	20
13300	1.097	20
13400	1.099	20
13500	1.099	20
13600	1.096	20
13700	1.093	20
13800	1.090	20
13900	1.095	20
14000	1.101	20
14100	1.096	20
14200	1.093	20
14300	1.094	20
14400	1.095	7
14500	1.102	7
14600	1.107	7
14700	1.116	7
14800	1.121	7
14900	1.127	7
15000	1.133	7
15100	1.129	7
15200	1.122	7
15300	1.119	7
15400	1.115	7
15500	1.107	7
15600	1.105	7
15700	1.102	7
15800	1.105	7
15900	1.106	7
16000	1.110	7
16100	1.113	7
16200	1.114	7
16300	1.111	7
16400	1.105	7
16500	1.103	7
16600	1.101	7
16700	1.091	7
16800	1.087	7
16900	1.081	7
17000	1.071	7
17100	1.064	7
17200	1.059	7
17300	1.060	7
17400	1.056	7
17500	1.052	20
17600	1.054	20
17700	1.052	20
17800	1.047	7
17900	1.042	7
18000	1.037	7
18100	1.036	7
18200	1.036	7
18300	1.036	7
18400	1.041	7
18500	1.046	7
18600	1.053	7
18700	1.057	7
18800	1.058	7
18900	1.055	7
19000	1.050	7
19100	1.047	7
19200	1.045	7
19300	1.046	7
19400	1.043	7
19500	1.041	7
19600	1.042	7
19700	1.042	7
19800	1.041	7
19900	1.040	7
20000	1.037	7
20100	1.036	7
20200	1.036	7
20300	1.036	7
20400	1.037	7
20500	1.038	7

20600	1.040	7
20700	1.043	7
20800	1.046	7
20900	1.049	7
21000	1.046	7
21100	1.041	7
21200	1.038	7
21300	1.034	7
21400	1.030	7
21500	1.028	7
21600	1.031	17
21700	1.033	17
21800	1.033	17
21900	1.031	17
22000	1.030	17
22100	1.030	17
22200	1.029	17
22300	1.031	17
22400	1.032	17
22500	1.029	17
22600	1.027	17
22700	1.027	17
22800	1.027	17
22900	1.028	17
23000	1.029	17
23100	1.029	17
23200	1.028	17
23300	1.026	17
23400	1.023	17
23500	1.021	17
23600	1.021	17
23700	1.021	17
23800	1.018	17
23900	1.015	17
24000	1.014	17
24100	1.015	17
24200	1.017	17
24300	1.018	17
24400	1.017	17
24500	1.016	17
24600	1.018	17
24700	1.019	17
24800	1.019	17
24900	1.020	17
25000	1.018	17
25100	1.018	17
25200	1.018	17
25300	1.017	17
25400	1.014	17
25500	1.013	17
25600	1.013	17
25700	1.012	17
25800	1.012	17
25900	1.013	17
26000	1.012	17
26100	1.013	17
26200	1.013	17
26300	1.014	17
26400	1.014	17
26500	1.015	17
26600	1.015	17
26700	1.017	17
26800	1.020	17
26900	1.021	17
27000	1.020	17
27100	1.019	17
27200	1.018	17
27300	1.020	17
27400	1.021	17
27500	1.021	17
27600	1.021	17
27700	1.020	17
27800	1.019	17
27900	1.018	17

28000	1.016	17
28100	1.016	17
28200	1.016	17
28300	1.016	17
28400	1.016	17
28500	1.016	17
28600	1.015	17
28700	1.015	17
28800	1.015	17
28900	1.015	17
29000	1.016	17
29100	1.017	17
29200	1.017	17
29300	1.017	17
29400	1.016	17
29500	1.016	17
29600	1.016	17
29700	1.015	20
29800	1.015	17
29900	1.014	17
30000	1.013	17
30100	1.013	17
30200	1.012	17
30300	1.012	17
30400	1.011	17
30500	1.011	17
30600	1.011	17
30700	1.011	17
30800	1.011	17
30900	1.012	17
31000	1.012	17
31100	1.013	17
31200	1.012	5
31300	1.010	5
31400	1.010	5
31500	1.010	5
31600	1.011	5
31700	1.011	5
31800	1.011	5
31900	1.011	5
32000	1.010	5
32100	1.010	5
32200	1.011	5
32300	1.011	5
32400	1.011	5
32500	1.011	5
32600	1.012	5
32700	1.013	5
32800	1.014	5
32900	1.013	5
33000	1.013	17
33100	1.013	17
33200	1.013	17
33300	1.014	17
33400	1.015	17
33500	1.014	17
33600	1.014	17
33700	1.014	17
33800	1.014	17
33900	1.014	17
34000	1.013	17
34100	1.013	17
34200	1.014	17
34300	1.013	17
34400	1.013	17
34500	1.012	17
34600	1.012	17
34700	1.013	17
34800	1.014	17
34900	1.013	17
35000	1.011	17
35100	1.009	17
35200	1.008	17
35300	1.009	17

35400	1.008	17
35500	1.008	17
35600	1.008	17
35700	1.008	17
35800	1.009	17
35900	1.009	17
36000	1.008	17
36100	1.008	17
36200	1.008	17
36300	1.007	3
36400	1.007	3
36500	1.007	3
36600	1.007	17
36700	1.007	17
36800	1.007	17
36900	1.008	17
37000	1.008	17
37100	1.008	17
37200	1.008	17
37300	1.008	17
37400	1.007	3
37500	1.006	3
37600	1.006	3
37700	1.006	3
37800	1.006	3
37900	1.006	3
38000	1.005	3
38100	1.006	5
38200	1.006	5
38300	1.006	3
38400	1.008	3
38500	1.011	3
38600	1.013	3
38700	1.013	3
38800	1.014	3
38900	1.015	3
39000	1.015	3
39100	1.016	3
39200	1.016	3
39300	1.016	3
39400	1.016	3
39500	1.016	3
39600	1.017	3
39700	1.017	3
39800	1.015	3
39900	1.013	3
40000	1.012	3
40100	1.012	3
40200	1.012	3
40300	1.011	3
40400	1.011	3
40500	1.011	3
40600	1.010	3
40700	1.011	3
40800	1.010	3
40900	1.010	3
41000	1.010	3
41100	1.009	3
41200	1.009	7
41300	1.009	7
41400	1.009	3
41500	1.009	3
41600	1.009	3
41700	1.009	3
41800	1.010	3
41900	1.011	3
42000	1.011	3
42100	1.011	3
42200	1.011	3
42300	1.011	3
42400	1.011	3
42500	1.011	3
42600	1.010	3
42700	1.010	3

42800	1.010	3
42900	1.009	3
43000	1.009	3
43100	1.009	3
43200	1.008	3
43300	1.008	3
43400	1.009	3
43500	1.009	3
43600	1.009	3
43700	1.009	3
43800	1.009	3
43900	1.009	3
44000	1.010	3
44100	1.009	3
44200	1.009	3
44300	1.009	3
44400	1.010	3
44500	1.009	3
44600	1.009	3
44700	1.009	3
44800	1.009	3
44900	1.010	3
45000	1.010	3
45100	1.010	3
45200	1.009	3
45300	1.009	3
45400	1.008	3
45500	1.007	23
45600	1.008	23
45700	1.008	23
45800	1.008	23
45900	1.008	23
46000	1.008	23
46100	1.008	23
46200	1.008	23
46300	1.008	23
46400	1.008	23
46500	1.008	23
46600	1.008	23
46700	1.008	23
46800	1.008	23
46900	1.008	23
47000	1.008	23
47100	1.009	23
47200	1.008	23
47300	1.008	23
47400	1.008	23
47500	1.008	7
47600	1.008	7
47700	1.009	7
47800	1.008	7
47900	1.008	7
48000	1.007	7
48100	1.007	7
48200	1.007	23
48300	1.007	23
48400	1.006	23
48500	1.007	23
48600	1.007	23
48700	1.007	23
48800	1.007	23
48900	1.007	23
49000	1.007	23
49100	1.007	23
49200	1.007	7
49300	1.008	7
49400	1.009	7
49500	1.009	7
49600	1.009	7
49700	1.010	7
49800	1.010	7
49900	1.010	7
50000	1.011	7
50100	1.011	7

50200	1.010	7
50300	1.010	7
50400	1.009	7
50500	1.009	7
50600	1.008	7
50700	1.008	7
50800	1.007	7
50900	1.007	7
51000	1.007	7
51100	1.007	7
51200	1.007	7
51300	1.007	7
51400	1.008	7
51500	1.008	7
51600	1.008	7
51700	1.007	7
51800	1.006	7
51900	1.006	7
52000	1.005	7
52100	1.005	7
52200	1.005	7
52300	1.005	7
52400	1.005	7
52500	1.004	7
52600	1.004	7
52700	1.003	7
52800	1.003	7
52900	1.003	7
53000	1.002	7
53100	1.002	23
53200	1.003	23
53300	1.003	23
53400	1.002	23
53500	1.003	7
53600	1.002	23
53700	1.003	23
53800	1.003	23
53900	1.003	23
54000	1.002	7

TECHNICAL 5 OUTPUT

DIAGRAM INFORMATION

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

Beginning Time: 19:03:06
Ending Time: 19:12:16
Elapsed Time: 00:09:10

MUTHEN & MUTHEN
3463 Stoner Ave.
Los Angeles, CA 90066

Tel: (310) 391-9971
Fax: (310) 391-8971
Web: www.StatModel.com
Support: Support@StatModel.com

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Mplus Output Single Multilevel SEM – Purpose in Life:

```

Mplus VERSION 8.5
MUTHEN & MUTHEN
10/15/2021 7:52 PM

INPUT INSTRUCTIONS

TITLE:

DATA: FILE = mpltry6.dat;

VARIABLE:
  NAMES = pno wave sex yol verst nopart
          basagec90 agec90 tims tsbase
          ttd ttdcens basettd basttdc
          aut pil ema sac dep
          pa na swls adlinv hyp
          visus sfenerg sfsofunc sfpain sfgen sfchang
          anges anget akzet mortinv mortperc
          basadlinv basvisus bashkr bassssc
          bassfen bassfso bassfpain bassfgen bassfcha
          hkr sl sssco;
  USEVARIABLES = pil tsbase basttdc bashkr bassssc basagec90 sex yol;
  CLUSTER = PNO;
  MISSING = .;
  WITHIN = tsbase;
  BETWEEN = basttdc bashkr bassssc basagec90 sex yol;

DEFINE:
  CENTER sex yol (grandmean);

ANALYSIS:
  TYPE = TWOLEVEL RANDOM;
  ESTIMATOR = BAYES;
  CHAINS = 2;
  BITERATIONS=1000000;
  BCONVERGENCE = 0.00125;

MODEL:

%WITHIN%

slopepil | pil ON tsbase;
lnvpil | pil;

%BETWEEN%
physcon by bashkr@1
          bassssc*0.4;

basttdc ON pil
          sex
          yol
          physcon*0.7
          basagec90
          slopepil
          lnvpil;

[ pil*3.08197 ] (m2);
[ slopepil*-0.00398 ] (ms2);
[ lnvpil*-1.93665 ] (mv2);

basttdc*6.66980;
pil*0.27574;
slopepil*0.00045;
lnvpil*0.38161;

pil WITH slopepil lnvpil;
slopepil WITH lnvpil;

MODEL PRIORS:

```

```
m2 ~ N(3.16,0.109);
ms2 ~ N(-0.075,0.0001);
```

OUTPUT:

```
standardized tech5 tech8 tech16;
```

```
*** WARNING in VARIABLE command
Note that only the first 8 characters of variable names are used in the output.
Shorten variable names to avoid any confusion.
*** WARNING in MODEL command
In the MODEL command, the following variable is an x-variable on the BETWEEN
level and a y-variable on the WITHIN level. This variable will be treated
as a y-variable on both levels: PIL
*** WARNING
One or more individual-level variables have no variation within a
cluster for the following clusters.
```

```
Variable Cluster IDs with no within-cluster variation
```

```
PIL 10130 11297 16142 16798 16510 10211
```

```
3 WARNING(S) FOUND IN THE INPUT INSTRUCTIONS
```

SUMMARY OF ANALYSIS

Number of groups	1
Number of observations	682
Number of dependent variables	4
Number of independent variables	4
Number of continuous latent variables	3

Observed dependent variables

Continuous			
BASTTDC	BASHKR	BASSSSC	PIL

Observed independent variables

TSBASE	BASAGEC9	SEX	YOL
--------	----------	-----	-----

Continuous latent variables

PHYSCON	SLOPEPIL	LNVPIL
---------	----------	--------

Variables with special functions

Cluster variable	PNO
------------------	-----

Within variables	
TSBASE	

Between variables

BASTTDC	BASHKR	BASSSSC	BASAGEC9	SEX	YOL
---------	--------	---------	----------	-----	-----

Centering (GRANDMEAN)

SEX	YOL
-----	-----

Estimator	BAYES
Specifications for Bayesian Estimation	
Point estimate	MEDIAN
Number of Markov chain Monte Carlo (MCMC) chains	2
Random seed for the first chain	0
Starting value information	UNPERTURBED
Algorithm used for Markov chain Monte Carlo	GIBBS(PX1)
Convergence criterion	0.125D-02
Maximum number of iterations	1000000
K-th iteration used for thinning	1

Input data file(s)
mpltry6.dat
Input data format FREE

SUMMARY OF DATA

Number of clusters 124

Size (s) Cluster ID with Size s

1	10026 10130 10144 10313 10473 10558 10567 10637 10663 10893 10901 10907 10911 10939 10969 11157 11240 11294 11297 11741 15018 15177 15241 15319 15564 16142 16423 16610 16669 16798 17542 18507 18650
2	15239 11258 10181 15510 10615 11341 16303 11371 16510 11384 11485 11028 16862 10211 17780 18004 18252 15175 10228
3	11573 11295 17130 11100 17745 10340 10460 10461 10210 11501
4	10904 11457 10434 11493 10811 17593
5	15424 10666 12411 11343 11005
6	10159 15092 15121 15426 11593 11163 10139 16220 19067
7	10354 11230 10894 10724 10470
8	10252 10528 11038 10033 11336 11253
9	15623 11055
10	12037 10167 17197 15009 19500
11	11233 10444 15714 10533
12	11079 10577 15378 12714 10986 10428
13	11420 11002
14	11450
15	10108 10906 10551 15231 10902
16	15141 10940 16103 15472 11528 11378

COVARIANCE COVERAGE OF DATA

Minimum covariance coverage value 0.100

Number of missing data patterns 8

PROPORTION OF DATA PRESENT

	Covariance Coverage BASTTDC	BASHKR	BASSSSC	PIL	TSBASE
BASTTDC	0.944				
BASHKR	0.912	0.968			
BASSSSC	0.935	0.968	0.991		
PIL	0.909	0.931	0.952	0.957	
TSBASE	0.944	0.968	0.991	0.957	1.000
BASAGEC9	0.944	0.968	0.991	0.957	1.000
SEX	0.944	0.968	0.991	0.957	1.000
YOL	0.944	0.968	0.991	0.957	1.000

	Covariance Coverage BASAGEC9	SEX	YOL
BASAGEC9	1.000		
SEX	1.000	1.000	
YOL	1.000	1.000	1.000

UNIVARIATE SAMPLE STATISTICS

UNIVARIATE HIGHER-ORDER MOMENT DESCRIPTIVE STATISTICS

Variable/ Sample Size	Mean/ Variance	Skewness/ Kurtosis	Minimum/ Maximum	% with Min/Max	20%/60%	Percentiles 40%/80%	Median
BASTTDC	5.519	0.456	0.250	0.83%	2.250	4.250	5.083
120.000	10.267	-0.614	12.667	1.67%	6.083	8.250	
BASHKR	18.519	1.282	5.330	0.89%	12.330	16.500	17.750
112.000	48.308	2.780	49.000	0.89%	18.670	23.330	
BASSSSC	1.333	0.640	0.000	53.33%	0.000	0.000	0.000
120.000	2.606	-1.294	4.000	17.50%	1.000	3.000	
PIL	3.027	-0.004	1.250	0.15%	2.500	2.889	3.000
653.000	0.371	0.003	5.000	0.15%	3.222	3.556	
TSBASE	36.711	0.258	0.000	3.08%	13.000	27.000	36.000
682.000	594.554	-0.917	91.000	0.59%	41.000	60.000	
BASAGEC90	0.106	0.407	-3.917	0.81%	-2.833	-1.250	-0.792
124.000	8.313	-1.090	6.417	0.81%	0.500	3.083	
SEX	0.000	-1.426	-0.790	20.97%	-0.790	0.210	0.210
124.000	0.166	0.035	0.210	79.03%	0.210	0.210	
YOL	0.000	0.868	-3.387	20.97%	-3.387	-1.387	-1.387
124.000	8.737	-0.315	5.613	17.74%	0.613	0.613	

THE MODEL ESTIMATION TERMINATED NORMALLY

USE THE FBITERATIONS OPTION TO INCREASE THE NUMBER OF ITERATIONS BY A FACTOR
OF AT LEAST TWO TO CHECK CONVERGENCE AND THAT THE PSR VALUE DOES NOT INCREASE.

MODEL FIT INFORMATION

Number of Free Parameters 24

Information Criteria

Deviance (DIC) 2711.800
Estimated Number of Parameters (pD) 121.730

MODEL RESULTS

	Estimate	Posterior S.D.	One-Tailed P-Value	95% C.I.		Significance
Within Level						
Between Level						
PHYSCON BY						
BASHKR	1.000	0.000	0.000	1.000	1.000	
BASSSSC	0.427	0.623	0.000	0.162	2.348	*
BASTTDC ON						
PHYSCON	0.690	0.882	0.000	0.289	3.264	*
SLOPEPIL	0.410	19.204	0.491	-37.719	37.669	
LNVPIL	0.786	0.862	0.177	-0.977	2.423	
BASTTDC ON						
PIL	0.287	0.673	0.333	-1.039	1.615	
SEX	1.688	0.749	0.010	0.264	3.205	*
YOL	-0.272	0.094	0.002	-0.455	-0.088	*
BASAGEC90	-0.230	0.096	0.009	-0.419	-0.042	*
PIL WITH						
SLOPEPIL	-0.007	0.003	0.000	-0.013	-0.003	*
LNVPIL	-0.074	0.076	0.155	-0.229	0.073	
SLOPEPIL WITH						
LNVPIL	0.002	0.003	0.251	-0.004	0.008	
Means						
PIL	3.240	0.067	0.000	3.108	3.373	*
SLOPEPIL	-0.011	0.003	0.000	-0.018	-0.005	*
LNVPIL	-1.963	0.127	0.000	-2.216	-1.716	*

Intercepts						
BASTTDC	6.250	2.342	0.004	1.716	10.914	*
BASHKR	18.483	0.672	0.000	17.164	19.803	*
BASSSSC	1.330	0.151	0.000	1.033	1.624	*
Variances						
PIL	0.387	0.077	0.000	0.262	0.564	*
PHYSCON	6.301	5.543	0.000	0.276	21.136	*
SLOPEPIL	0.001	0.000	0.000	0.000	0.001	*
LNVPIL	0.420	0.149	0.000	0.205	0.786	*
Residual Variances						
BASTTDC	6.322	1.792	0.000	2.400	9.610	*
BASHKR	43.099	7.417	0.000	29.764	59.043	*
BASSSSC	1.556	0.627	0.000	0.152	2.571	*

STANDARDIZED MODEL RESULTS

STDYX Standardization

	Estimate	Posterior S.D.	One-Tailed P-Value	95% C.I.		Significance
				Lower 2.5%	Upper 2.5%	
Within-Level Standardized Estimates Averaged Over Clusters						
SLOPEPIL PIL ON TSBASE	-0.137	0.025	0.000	-0.185	-0.086	*
LNVPIL PIL	0.852	0.014	0.000	0.823	0.880	*
Between Level						
PHYSCON BY BASHKR	0.355	0.139	0.000	0.075	0.621	*
BASSSSC	0.649	0.167	0.000	0.339	0.972	*
BASTTDC ON PHYSCON	0.516	0.141	0.000	0.256	0.808	*
SLOPEPIL	0.003	0.139	0.491	-0.270	0.275	
LNVPIL	0.156	0.160	0.177	-0.177	0.445	
BASTTDC ON PIL	0.054	0.125	0.333	-0.189	0.300	
SEX	0.148	0.063	0.010	0.023	0.270	*
YOL	-0.173	0.058	0.002	-0.284	-0.056	*
BASAGEC90	-0.133	0.055	0.009	-0.238	-0.024	*
PIL WITH SLOPEPIL	-0.461	0.117	0.000	-0.660	-0.204	*
LNVPIL	-0.190	0.179	0.155	-0.518	0.173	
SLOPEPIL WITH LNVPIL	0.115	0.166	0.251	-0.219	0.426	
Means						
PIL	5.209	0.520	0.000	4.302	6.344	*
SLOPEPIL	-0.449	0.135	0.000	-0.717	-0.187	*
LNVPIL	-3.029	0.514	0.000	-4.237	-2.228	*
Intercepts						
BASTTDC	1.883	0.694	0.004	0.506	3.228	*
BASHKR	2.609	0.201	0.000	2.222	3.010	*
BASSSSC	0.808	0.105	0.000	0.601	1.014	*
Variances						
PIL	1.000	0.000	0.000	1.000	1.000	
PHYSCON	1.000	0.000	0.000	1.000	1.000	
SLOPEPIL	1.000	0.000	0.000	1.000	1.000	
LNVPIL	1.000	0.000	0.000	1.000	1.000	

Residual Variances

BASTTDC	0.577	0.153	0.000	0.213	0.809	*
BASHKR	0.874	0.101	0.000	0.615	0.994	*
BASSSSC	0.578	0.222	0.000	0.056	0.885	*

STDY Standardization

Estimate	Posterior S.D.	One-Tailed P-Value	95% C.I.		Significance
			Lower 2.5%	Upper 2.5%	

Within-Level Standardized Estimates Averaged Over Clusters

SLOPEPIL PIL ON TSBASE	-0.020	0.008	0.003	-0.036	-0.005	*
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LNVPIL PIL	0.852	0.014	0.000	0.823	0.880	*
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Between Level

PHYSCON BY BASHKR	0.355	0.139	0.000	0.075	0.621	*
BASSSSC	0.649	0.167	0.000	0.339	0.972	*

BASTTDC ON PHYSCON	0.516	0.141	0.000	0.256	0.808	*
SLOPEPIL	0.003	0.139	0.491	-0.270	0.275	
LNVPIL	0.156	0.160	0.177	-0.177	0.445	

BASTTDC ON PIL	0.054	0.125	0.333	-0.189	0.300	
SEX	0.508	0.216	0.010	0.080	0.927	*
YOL	-0.082	0.028	0.002	-0.134	-0.026	*
BASAGEC90	-0.069	0.028	0.009	-0.124	-0.012	*

PIL WITH SLOPEPIL	-0.461	0.117	0.000	-0.660	-0.204	*
LNVPIL	-0.190	0.179	0.155	-0.518	0.173	

SLOPEPIL WITH LNVPIL	0.115	0.166	0.251	-0.219	0.426	
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Means PIL	5.209	0.520	0.000	4.302	6.344	*
SLOPEPIL	-0.449	0.135	0.000	-0.717	-0.187	*
LNVPIL	-3.029	0.514	0.000	-4.237	-2.228	*

Intercepts BASTTDC	1.883	0.694	0.004	0.506	3.228	*
BASHKR	2.609	0.201	0.000	2.222	3.010	*
BASSSSC	0.808	0.105	0.000	0.601	1.014	*

Variances PIL	1.000	0.000	0.000	1.000	1.000	
PHYSCON	1.000	0.000	0.000	1.000	1.000	
SLOPEPIL	1.000	0.000	0.000	1.000	1.000	
LNVPIL	1.000	0.000	0.000	1.000	1.000	

Residual Variances BASTTDC	0.577	0.153	0.000	0.213	0.809	*
BASHKR	0.874	0.101	0.000	0.615	0.994	*
BASSSSC	0.578	0.222	0.000	0.056	0.885	*

STD Standardization

Estimate	Posterior S.D.	One-Tailed P-Value	95% C.I.		Significance
			Lower 2.5%	Upper 2.5%	

Within-Level Standardized Estimates Averaged Over Clusters

SLOPEPIL PIL ON TSBASE	-0.008	0.003	0.001	-0.013	-0.003	*
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LNVPIL						
PIL	0.171	0.015	0.000	0.141	0.201	*
Between Level						
PHYSCON BY						
BASHKR	2.510	1.031	0.000	0.526	4.597	*
BASSSSC	1.072	0.292	0.000	0.545	1.650	*
BASTTDC ON						
PHYSCON	1.720	0.503	0.000	0.831	2.787	*
SLOPEPIL	0.010	0.468	0.491	-0.918	0.919	
LNVPIL	0.518	0.541	0.177	-0.592	1.519	
BASTTDC ON						
PIL	0.287	0.673	0.333	-1.039	1.615	
SEX	1.688	0.749	0.010	0.264	3.205	*
YOL	-0.272	0.094	0.002	-0.455	-0.088	*
BASAGEC90	-0.230	0.096	0.009	-0.419	-0.042	*
PIL WITH						
SLOPEPIL	-0.285	0.090	0.000	-0.468	-0.115	*
LNVPIL	-0.117	0.114	0.155	-0.336	0.109	
SLOPEPIL WITH						
LNVPIL	0.115	0.166	0.251	-0.219	0.426	
Means						
PIL	3.240	0.067	0.000	3.108	3.373	*
SLOPEPIL	-0.449	0.135	0.000	-0.717	-0.187	*
LNVPIL	-3.029	0.514	0.000	-4.237	-2.228	*
Intercepts						
BASTTDC	6.250	2.342	0.004	1.716	10.914	*
BASHKR	18.483	0.672	0.000	17.164	19.803	*
BASSSSC	1.330	0.151	0.000	1.033	1.624	*
Variances						
PIL	0.387	0.077	0.000	0.262	0.564	*
PHYSCON	1.000	0.000	0.000	1.000	1.000	
SLOPEPIL	1.000	0.000	0.000	1.000	1.000	
LNVPIL	1.000	0.000	0.000	1.000	1.000	
Residual Variances						
BASTTDC	6.322	1.792	0.000	2.400	9.610	*
BASHKR	43.099	7.417	0.000	29.764	59.043	*
BASSSSC	1.556	0.627	0.000	0.152	2.571	*

R-SQUARE

Within-Level R-Square Averaged Across Clusters

Variable	Estimate	Posterior S.D.	One-Tailed P-Value	95% C.I.	
				Lower 2.5%	Upper 2.5%
PIL	0.148	0.014	0.000	0.120	0.177

Between Level

Variable	Estimate	Posterior S.D.	One-Tailed P-Value	95% C.I.	
				Lower 2.5%	Upper 2.5%
BASTTDC	0.423	0.153	0.000	0.191	0.787
BASHKR	0.126	0.101	0.000	0.006	0.385
BASSSSC	0.422	0.222	0.000	0.115	0.944

TECHNICAL 8 OUTPUT

TECHNICAL 8 OUTPUT FOR BAYES ESTIMATION

CHAIN BSEED
1 0
2 285380

ITERATION	POTENTIAL SCALE REDUCTION	PARAMETER WITH HIGHEST PSR
100	2.747	12
200	2.855	20
300	1.967	20
400	2.104	7
500	1.816	7
600	1.547	7
700	1.230	12
800	1.193	12
900	1.271	5
1000	1.122	5
1100	1.064	5
1200	1.053	7
1300	1.063	3
1400	1.122	20
1500	1.118	17
1600	1.162	17
1700	1.141	17
1800	1.048	7
1900	1.049	23
2000	1.051	23
2100	1.100	10
2200	1.156	10
2300	1.191	10
2400	1.252	10
2500	1.241	10
2600	1.291	17
2700	1.302	17
2800	1.313	17
2900	1.336	17
3000	1.397	17
3100	1.534	17
3200	1.601	17
3300	1.703	17
3400	1.718	17
3500	1.739	17
3600	1.722	17
3700	1.636	17
3800	1.619	17
3900	1.629	17
4000	1.672	17
4100	1.864	17
4200	1.906	17
4300	1.917	17
4400	1.883	17
4500	1.870	17
4600	1.838	17
4700	1.831	17
4800	1.773	17
4900	1.756	17
5000	1.782	17
5100	1.772	17
5200	1.658	17
5300	1.665	17
5400	1.698	10
5500	1.736	10
5600	1.758	10
5700	1.801	10
5800	1.845	10
5900	1.885	10
6000	1.861	10
6100	1.853	10
6200	1.867	10
6300	1.879	10
6400	1.867	10
6500	1.874	10
6600	1.881	10
6700	1.902	10

6800	1.897	10
6900	1.881	10
7000	1.880	10
7100	1.873	10
7200	1.895	10
7300	1.914	10
7400	1.905	10
7500	1.871	10
7600	1.832	10
7700	1.817	10
7800	1.804	10
7900	1.795	10
8000	1.784	10
8100	1.780	10
8200	1.780	10
8300	1.603	10
8400	1.566	17
8500	1.561	17
8600	1.535	17
8700	1.533	17
8800	1.543	17
8900	1.553	17
9000	1.558	17
9100	1.563	17
9200	1.554	17
9300	1.556	17
9400	1.558	17
9500	1.566	17
9600	1.570	17
9700	1.579	17
9800	1.582	17
9900	1.587	17
10000	1.578	17
10100	1.577	17
10200	1.582	17
10300	1.592	17
10400	1.599	17
10500	1.598	17
10600	1.603	17
10700	1.606	17
10800	1.596	17
10900	1.592	17
11000	1.583	17
11100	1.571	17
11200	1.554	17
11300	1.565	17
11400	1.572	17
11500	1.567	17
11600	1.552	17
11700	1.513	17
11800	1.469	17
11900	1.441	17
12000	1.419	17
12100	1.403	17
12200	1.405	17
12300	1.417	17
12400	1.419	17
12500	1.417	17
12600	1.414	17
12700	1.401	17
12800	1.403	17
12900	1.401	17
13000	1.401	17
13100	1.382	17
13200	1.381	17
13300	1.378	17
13400	1.361	17
13500	1.339	17
13600	1.322	17
13700	1.314	17
13800	1.306	17
13900	1.282	17
14000	1.274	17
14100	1.269	17

14200	1.262	17
14300	1.251	17
14400	1.251	17
14500	1.252	17
14600	1.249	17
14700	1.241	17
14800	1.237	17
14900	1.231	17
15000	1.225	17
15100	1.222	17
15200	1.222	17
15300	1.211	17
15400	1.194	17
15500	1.174	17
15600	1.164	17
15700	1.152	17
15800	1.141	17
15900	1.137	17
16000	1.136	17
16100	1.133	17
16200	1.125	17
16300	1.119	17
16400	1.115	17
16500	1.103	17
16600	1.087	17
16700	1.077	17
16800	1.073	17
16900	1.072	17
17000	1.065	17
17100	1.060	17
17200	1.056	17
17300	1.054	17
17400	1.050	17
17500	1.046	17
17600	1.045	17
17700	1.045	17
17800	1.039	17
17900	1.043	10
18000	1.046	3
18100	1.046	3
18200	1.042	3
18300	1.039	3
18400	1.035	3
18500	1.031	3
18600	1.028	3
18700	1.025	3
18800	1.024	3
18900	1.027	3
19000	1.025	3
19100	1.023	3
19200	1.025	3
19300	1.027	3
19400	1.025	3
19500	1.022	3
19600	1.020	3
19700	1.016	3
19800	1.014	3
19900	1.011	3
20000	1.009	3
20100	1.007	3
20200	1.007	7
20300	1.007	7
20400	1.008	7
20500	1.008	7
20600	1.008	7
20700	1.008	7
20800	1.009	21
20900	1.010	21
21000	1.010	21
21100	1.010	21
21200	1.011	21
21300	1.011	21
21400	1.011	21
21500	1.010	21

21600	1.010	7
21700	1.010	7
21800	1.011	7
21900	1.012	7
22000	1.013	7
22100	1.014	7
22200	1.015	7
22300	1.015	7
22400	1.016	7
22500	1.017	7
22600	1.017	7
22700	1.017	7
22800	1.016	7
22900	1.017	7
23000	1.019	7
23100	1.018	7
23200	1.017	7
23300	1.017	7
23400	1.019	7
23500	1.022	7
23600	1.023	7
23700	1.027	7
23800	1.028	7
23900	1.028	7
24000	1.029	7
24100	1.030	7
24200	1.030	7
24300	1.028	7
24400	1.026	7
24500	1.025	7
24600	1.026	7
24700	1.026	7
24800	1.028	7
24900	1.030	7
25000	1.030	7
25100	1.030	7
25200	1.030	7
25300	1.031	7
25400	1.030	7
25500	1.031	7
25600	1.032	7
25700	1.032	7
25800	1.030	7
25900	1.030	7
26000	1.029	7
26100	1.028	7
26200	1.028	7
26300	1.027	7
26400	1.026	7
26500	1.024	7
26600	1.020	7
26700	1.017	7
26800	1.016	7
26900	1.016	7
27000	1.016	7
27100	1.017	7
27200	1.017	7
27300	1.017	7
27400	1.017	7
27500	1.017	7
27600	1.015	7
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27800	1.013	7
27900	1.013	7
28000	1.012	7
28100	1.011	7
28200	1.011	7
28300	1.012	7
28400	1.012	7
28500	1.012	7
28600	1.013	7
28700	1.013	7
28800	1.013	7
28900	1.014	7

29000	1.015	7
29100	1.014	7
29200	1.013	7
29300	1.013	7
29400	1.012	7
29500	1.013	7
29600	1.013	7
29700	1.015	7
29800	1.016	7
29900	1.018	7
30000	1.019	7
30100	1.018	7
30200	1.016	7
30300	1.014	7
30400	1.013	7
30500	1.012	7
30600	1.011	7
30700	1.010	7
30800	1.009	7
30900	1.009	7
31000	1.008	7
31100	1.009	7
31200	1.010	7
31300	1.011	7
31400	1.011	7
31500	1.010	7
31600	1.009	7
31700	1.009	7
31800	1.009	7
31900	1.009	7
32000	1.009	7
32100	1.009	7
32200	1.009	7
32300	1.009	7
32400	1.009	7
32500	1.009	7
32600	1.009	7
32700	1.009	7
32800	1.008	7
32900	1.007	7
33000	1.006	7
33100	1.006	7
33200	1.007	7
33300	1.009	3
33400	1.011	3
33500	1.013	3
33600	1.015	3
33700	1.018	3
33800	1.020	3
33900	1.022	3
34000	1.024	3
34100	1.026	3
34200	1.029	3
34300	1.030	3
34400	1.031	3
34500	1.031	3
34600	1.031	3
34700	1.031	3
34800	1.031	3
34900	1.031	3
35000	1.031	3
35100	1.031	3
35200	1.031	3
35300	1.031	3
35400	1.031	3
35500	1.031	3
35600	1.031	3
35700	1.031	3
35800	1.030	3
35900	1.030	3
36000	1.030	3
36100	1.030	3
36200	1.030	3
36300	1.030	3

36400	1.030	3
36500	1.030	3
36600	1.030	3
36700	1.029	3
36800	1.029	3
36900	1.028	3
37000	1.028	3
37100	1.027	3
37200	1.027	3
37300	1.027	3
37400	1.027	3
37500	1.027	3
37600	1.027	3
37700	1.027	3
37800	1.027	3
37900	1.026	3
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38900	1.026	3
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39400	1.025	3
39500	1.025	3
39600	1.025	3
39700	1.025	3
39800	1.025	3
39900	1.025	3
40000	1.026	3
40100	1.025	3
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40300	1.025	3
40400	1.025	3
40500	1.025	3
40600	1.025	3
40700	1.025	3
40800	1.025	3
40900	1.025	3
41000	1.025	3
41100	1.025	3
41200	1.025	3
41300	1.025	3
41400	1.025	3
41500	1.024	3
41600	1.024	3
41700	1.024	3
41800	1.024	3
41900	1.024	3
42000	1.024	3
42100	1.024	3
42200	1.024	3
42300	1.023	3
42400	1.023	3
42500	1.024	3
42600	1.024	3
42700	1.023	3
42800	1.023	3
42900	1.023	3
43000	1.024	3
43100	1.024	3
43200	1.023	3
43300	1.023	3
43400	1.023	3
43500	1.023	3
43600	1.022	3
43700	1.022	3

43800	1.022	3
43900	1.022	3
44000	1.022	3
44100	1.022	3
44200	1.022	3
44300	1.022	3
44400	1.022	3
44500	1.022	3
44600	1.022	3
44700	1.022	3
44800	1.022	3
44900	1.022	3
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45100	1.022	3
45200	1.022	3
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45400	1.021	3
45500	1.021	3
45600	1.021	3
45700	1.021	3
45800	1.021	3
45900	1.021	3
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46500	1.022	3
46600	1.022	3
46700	1.021	3
46800	1.021	3
46900	1.021	3
47000	1.021	3
47100	1.021	3
47200	1.021	3
47300	1.021	3
47400	1.021	3
47500	1.021	3
47600	1.021	3
47700	1.021	3
47800	1.020	3
47900	1.020	3
48000	1.020	3
48100	1.020	3
48200	1.020	3
48300	1.020	3
48400	1.020	3
48500	1.020	3
48600	1.020	3
48700	1.020	3
48800	1.020	3
48900	1.020	3
49000	1.020	3
49100	1.020	3
49200	1.020	3
49300	1.020	3
49400	1.020	3
49500	1.020	3
49600	1.020	3
49700	1.019	3
49800	1.019	3
49900	1.019	3
50000	1.019	3
50100	1.020	3
50200	1.020	3
50300	1.020	3
50400	1.019	3
50500	1.019	3
50600	1.019	3
50700	1.019	3
50800	1.019	3
50900	1.019	3
51000	1.019	3
51100	1.019	3

51200	1.019	3
51300	1.019	3
51400	1.019	3
51500	1.019	3
51600	1.019	3
51700	1.019	3
51800	1.020	3
51900	1.020	3
52000	1.020	3
52100	1.020	3
52200	1.020	3
52300	1.020	3
52400	1.020	3
52500	1.020	3
52600	1.021	3
52700	1.021	3
52800	1.021	3
52900	1.021	3
53000	1.021	3
53100	1.021	3
53200	1.021	3
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53900	1.021	3
54000	1.021	3
54100	1.021	3
54200	1.021	3
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54400	1.021	3
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54600	1.021	3
54700	1.021	3
54800	1.021	3
54900	1.021	3
55000	1.021	3
55100	1.021	3
55200	1.021	3
55300	1.021	3
55400	1.021	3
55500	1.021	3
55600	1.021	3
55700	1.021	3
55800	1.021	3
55900	1.021	3
56000	1.021	3
56100	1.020	3
56200	1.020	3
56300	1.020	3
56400	1.020	3
56500	1.020	3
56600	1.020	3
56700	1.020	3
56800	1.020	3
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135600	1.005	3
135700	1.005	3
135800	1.004	3
135900	1.004	3
136000	1.004	3
136100	1.003	3
136200	1.003	3
136300	1.003	3
136400	1.003	3
136500	1.002	20
136600	1.002	20
136700	1.002	20
136800	1.002	20

TECHNICAL 5 OUTPUT

DIAGRAM INFORMATION

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

Beginning Time: 19:52:01
Ending Time: 20:15:42
Elapsed Time: 00:23:41

MUTHEN & MUTHEN
3463 Stoner Ave.
Los Angeles, CA 90066

Tel: (310) 391-9971
Fax: (310) 391-8971
Web: www.StatModel.com
Support: Support@StatModel.com

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Mplus Output Single Multilevel SEM – Self Acceptance:

```

Mplus VERSION 8.5
MUTHEN & MUTHEN
10/12/2021 4:16 PM

INPUT INSTRUCTIONS

TITLE:

DATA: FILE = mpltry6.dat;

VARIABLE:
  NAMES = pno wave sex yol verst nopart
          basagec90 agec90 tims tsbase
          ttd ttdcens basettd basttdc
          aut pil ema sac dep
          pa na swls adlinv hyp
          visus sfenerg sfsofunc sfpain sfgen sfchang
          anges anget akzet mortinv mortperc
          basadlinv basvisus bashkr bassssc
          bassfen bassfso bassfpain bassfgen bassfcha
          hkr sl sssco;
  USEVARIABLES = sac tsbase basttdc bashkr bassssc basagec90 sex yol;
  CLUSTER = PNO;
  MISSING = .;
  WITHIN = tsbase;
  BETWEEN = basttdc bashkr bassssc basagec90 sex yol;

DEFINE:
  CENTER sex yol (grandmean);

ANALYSIS:
  TYPE = TWOLEVEL RANDOM;
  ESTIMATOR = BAYES;
  CHAINS = 2;
  BITERATIONS=1000000;
  BCONVERGENCE = 0.00125;

MODEL:

%WITHIN%

slopesac | sac ON tsbase;
lnvsac | sac;

%BETWEEN%

physcon BY bashkr@1
          bassssc*0.376;

basttdc ON sac*0.604
          sex*1.631
          yol*-0.220
          physcon*0.691
          basagec90
          slopesac*9.769
          lnvsac*0.823;

[ basttdc*5.038 ];
[ bashkr*18.476 ];
[ bassssc*1.331 ];
[ sac*4.075 ] (m4);
[ slopesac*-0.004 ] (ms4);
[ lnvsac*-2.263 ] (mv4);

basttdc*6.317;
sac*0.285;
slopesac*0.001;
lnvsac*0.360;

sac WITH slopesac*-0.004

```

```

        lnvsac*-0.100;
        slopesac with lnvsac*0.000;

MODEL PRIORS:
    m4 ~ N(4.03,0.109);
    ms4 ~ N(-0.009,0.00026);

OUTPUT:
    standardized tech5 tech8 tech16;

*** WARNING in VARIABLE command
    Note that only the first 8 characters of variable names are used in the output.
    Shorten variable names to avoid any confusion.
*** WARNING in MODEL command
    In the MODEL command, the following variable is an x-variable on the BETWEEN
    level and a y-variable on the WITHIN level. This variable will be treated
    as a y-variable on both levels: SAC
*** WARNING
    One or more individual-level variables have no variation within a
    cluster for the following clusters.

        Variable    Cluster IDs with no within-cluster variation

        SAC          16142 16798 15510

    3 WARNING(S) FOUND IN THE INPUT INSTRUCTIONS

SUMMARY OF ANALYSIS

Number of groups                                1
Number of observations                          682

Number of dependent variables                   4
Number of independent variables                 4
Number of continuous latent variables           3

Observed dependent variables

    Continuous
    BASTTDC      BASHKR      BASSSSC      SAC

Observed independent variables
    TSBASE      BASAGEC9      SEX      YOL

Continuous latent variables
    PHYSCON      SLOPESAC      LNVSAC

Variables with special functions

    Cluster variable      PNO

    Within variables
    TSBASE

    Between variables
    BASTTDC      BASHKR      BASSSSC      BASAGEC9      SEX      YOL

    Centering (GRANDMEAN)
    SEX      YOL

Estimator                                BAYES
Specifications for Bayesian Estimation
    Point estimate                                MEDIAN
    Number of Markov chain Monte Carlo (MCMC) chains                2
    Random seed for the first chain                                0
    Starting value information                                UNPERTURBED
    Algorithm used for Markov chain Monte Carlo                GIBBS(PX1)

```

Convergence criterion 0.125D-02
 Maximum number of iterations 1000000
 K-th iteration used for thinning 1

Input data file(s)
 mpltry6.dat
 Input data format FREE

SUMMARY OF DATA

Number of clusters 124

Size (s)	Cluster ID with Size s
1	10026 10130 10144 10313 10473 10558 10567 10637 10663 10893 10901 10907 10911 10939 10969 11157 11240 11294 11297 11741 15018 15177 15241 15319 15564 16142 16423 16610 16669 16798 17542 18507 18650
2	15239 11258 10181 15510 10615 11341 16303 11371 16510 11384 11485 11028 16862 10211 17780 18004 18252 15175 10228
3	11573 11295 17130 11100 17745 10340 10460 10461 10210 11501
4	10904 11457 10434 11493 10811 17593
5	15424 10666 12411 11343 11005
6	10159 15092 15121 15426 11593 11163 10139 16220 19067
7	10354 11230 10894 10724 10470
8	10252 10528 11038 10033 11336 11253
9	15623 11055
10	12037 10167 17197 15009 19500
11	11233 10444 15714 10533
12	11079 10577 15378 12714 10986 10428
13	11420 11002
14	11450
15	10108 10906 10551 15231 10902
16	15141 10940 16103 15472 11528 11378

COVARIANCE COVERAGE OF DATA

Minimum covariance coverage value 0.100

Number of missing data patterns 8

PROPORTION OF DATA PRESENT

	Covariance Coverage BASTTDC	BASHKR	BASSSSC	SAC	TSBASE
BASTTDC	0.944				
BASHKR	0.912	0.968			
BASSSSC	0.935	0.968	0.991		
SAC	0.928	0.952	0.974	0.981	
TSBASE	0.944	0.968	0.991	0.981	1.000
BASAGEC9	0.944	0.968	0.991	0.981	1.000
SEX	0.944	0.968	0.991	0.981	1.000
YOL	0.944	0.968	0.991	0.981	1.000

	Covariance Coverage BASAGEC9	SEX	YOL
BASAGEC9	1.000		
SEX	1.000	1.000	
YOL	1.000	1.000	1.000

UNIVARIATE SAMPLE STATISTICS

UNIVARIATE HIGHER-ORDER MOMENT DESCRIPTIVE STATISTICS

Variable/ Sample Size	Mean/ Variance	Skewness/ Kurtosis	Minimum/ Maximum	% with Min/Max	20%/60%	Percentiles 40%/80%	Median
BASTTDC	5.519	0.456	0.250	0.83%	2.250	4.250	5.083
120.000	10.267	-0.614	12.667	1.67%	6.083	8.250	
BASHKR	18.519	1.282	5.330	0.89%	12.330	16.500	17.750
112.000	48.308	2.780	49.000	0.89%	18.670	23.330	
BASSSSC	1.333	0.640	0.000	53.33%	0.000	0.000	0.000
120.000	2.606	-1.294	4.000	17.50%	1.000	3.000	
SAC	3.990	-0.735	1.889	0.30%	3.556	3.875	4.000
669.000	0.362	0.733	5.000	2.39%	4.222	4.500	
TSBASE	36.711	0.258	0.000	3.08%	13.000	27.000	36.000
682.000	594.554	-0.917	91.000	0.59%	41.000	60.000	
BASAGEC90	0.106	0.407	-3.917	0.81%	-2.833	-1.250	-0.792
124.000	8.313	-1.090	6.417	0.81%	0.500	3.083	
SEX	0.000	-1.426	-0.790	20.97%	-0.790	0.210	0.210
124.000	0.166	0.035	0.210	79.03%	0.210	0.210	
YOL	0.000	0.868	-3.387	20.97%	-3.387	-1.387	-1.387
124.000	8.737	-0.315	5.613	17.74%	0.613	0.613	

THE MODEL ESTIMATION TERMINATED NORMALLY

USE THE FBITERATIONS OPTION TO INCREASE THE NUMBER OF ITERATIONS BY A FACTOR
OF AT LEAST TWO TO CHECK CONVERGENCE AND THAT THE PSR VALUE DOES NOT INCREASE.

MODEL FIT INFORMATION

Number of Free Parameters 24

Information Criteria

Deviance (DIC) 2598.388
Estimated Number of Parameters (pD) 259.872

MODEL RESULTS

	Estimate	Posterior S.D.	One-Tailed P-Value	95% C.I.		Significance
				Lower 2.5%	Upper 2.5%	
Within Level						
Between Level						
PHYSCON BY						
BASHKR	1.000	0.000	0.000	1.000	1.000	
BASSSSC	0.426	0.531	0.000	0.160	1.743	*
BASTTDC ON						
PHYSCON	0.690	0.742	0.000	0.295	2.622	*
SLOPESAC	4.965	17.908	0.390	-30.545	39.577	
LNVSAC	0.732	1.022	0.222	-1.253	2.794	
BASTTDC ON						
SAC	0.473	0.772	0.262	-1.047	2.021	
SEX	1.663	0.747	0.011	0.237	3.176	*
YOL	-0.256	0.094	0.003	-0.440	-0.072	*
BASAGEC90	-0.226	0.096	0.010	-0.415	-0.038	*
SAC WITH						
SLOPESAC	-0.004	0.002	0.014	-0.008	0.000	*
LNVSAC	-0.100	0.064	0.051	-0.234	0.021	
SLOPESAC WITH						
LNVSAC	0.000	0.003	0.460	-0.006	0.005	
Means						

SAC	4.074	0.058	0.000	3.959	4.185	*
SLOPESAC	-0.004	0.003	0.096	-0.011	0.002	
LNVSAC	-2.259	0.116	0.000	-2.495	-2.036	*
Intercepts						
BASTTDC	5.425	2.814	0.026	-0.085	11.036	
BASHKR	18.478	0.671	0.000	17.165	19.787	*
BASSSSC	1.329	0.151	0.000	1.033	1.625	*
Variances						
SAC	0.286	0.058	0.000	0.191	0.420	*
PHYSCON	6.321	5.647	0.000	0.466	21.405	*
SLOPESAC	0.001	0.000	0.000	0.000	0.001	*
LNVSAC	0.358	0.140	0.000	0.158	0.705	*
Residual Variances						
BASTTDC	6.361	1.754	0.000	2.600	9.604	*
BASHKR	42.926	7.456	0.000	29.449	58.760	*
BASSSSC	1.555	0.611	0.000	0.197	2.548	*
STANDARDIZED MODEL RESULTS						
STDYX Standardization						
	Estimate	Posterior S.D.	One-Tailed P-Value	95% C.I. Lower 2.5% Upper 2.5%		Significance
Within-Level Standardized Estimates Averaged Over Clusters						
SLOPESAC SAC ON TSBASE	-0.087	0.025	0.000	-0.137	-0.041	*
LNVSAC SAC	0.839	0.016	0.000	0.808	0.869	*
Between Level						
PHYSCON BY						
BASHKR	0.356	0.137	0.000	0.098	0.625	*
BASSSSC	0.650	0.164	0.000	0.345	0.963	*
BASTTDC ON						
PHYSCON	0.522	0.136	0.000	0.269	0.801	*
SLOPESAC	0.036	0.128	0.390	-0.215	0.286	
LNVSAC	0.133	0.172	0.222	-0.218	0.456	
BASTTDC ON						
SAC	0.076	0.122	0.262	-0.165	0.318	
SEX	0.146	0.063	0.011	0.021	0.268	*
YOL	-0.163	0.059	0.003	-0.275	-0.046	*
BASAGEC90	-0.131	0.055	0.010	-0.236	-0.022	*
SAC WITH						
SLOPESAC	-0.301	0.128	0.014	-0.530	-0.032	*
LNVSAC	-0.323	0.180	0.051	-0.634	0.065	
SLOPESAC WITH LNVSAC	-0.018	0.173	0.460	-0.349	0.320	
Means						
SAC	7.613	0.792	0.000	6.252	9.354	*
SLOPESAC	-0.175	0.135	0.096	-0.442	0.089	
LNVSAC	-3.784	0.770	0.000	-5.661	-2.664	*
Intercepts						
BASTTDC	1.638	0.843	0.026	-0.025	3.296	
BASHKR	2.610	0.201	0.000	2.225	3.007	*
BASSSSC	0.807	0.105	0.000	0.602	1.014	*
Variances						
SAC	1.000	0.000	0.000	1.000	1.000	
PHYSCON	1.000	0.000	0.000	1.000	1.000	

SLOPESAC	1.000	0.000	0.000	1.000	1.000	
LNVSAC	1.000	0.000	0.000	1.000	1.000	
Residual Variances						
BASTTDC	0.583	0.149	0.000	0.233	0.812	*
BASHKR	0.873	0.104	0.000	0.609	0.990	*
BASSSSC	0.578	0.217	0.000	0.072	0.881	*
STDY Standardization						
	Estimate	Posterior S.D.	One-Tailed P-Value	95% C.I. Lower 2.5% Upper 2.5%		Significance
Within-Level Standardized Estimates Averaged Over Clusters						
SLOPESAC SAC ON TSBASE	-0.011	0.008	0.073	-0.028	0.004	
LNVSAC SAC	0.839	0.016	0.000	0.808	0.869	*
Between Level						
PHYSCON BY BASHKR	0.356	0.137	0.000	0.098	0.625	*
BASSSSC	0.650	0.164	0.000	0.345	0.963	*
BASTTDC ON PHYSCON	0.522	0.136	0.000	0.269	0.801	*
SLOPESAC	0.036	0.128	0.390	-0.215	0.286	
LNVSAC	0.133	0.172	0.222	-0.218	0.456	
BASTTDC ON SAC	0.076	0.122	0.262	-0.165	0.318	
SEX	0.501	0.216	0.011	0.072	0.919	*
YOL	-0.077	0.028	0.003	-0.130	-0.022	*
BASAGEC90	-0.068	0.029	0.010	-0.123	-0.011	*
SAC WITH SLOPESAC	-0.301	0.128	0.014	-0.530	-0.032	*
LNVSAC	-0.323	0.180	0.051	-0.634	0.065	
SLOPESAC WITH LNVSAC	-0.018	0.173	0.460	-0.349	0.320	
Means						
SAC	7.613	0.792	0.000	6.252	9.354	*
SLOPESAC	-0.175	0.135	0.096	-0.442	0.089	
LNVSAC	-3.784	0.770	0.000	-5.661	-2.664	*
Intercepts						
BASTTDC	1.638	0.843	0.026	-0.025	3.296	
BASHKR	2.610	0.201	0.000	2.225	3.007	*
BASSSSC	0.807	0.105	0.000	0.602	1.014	*
Variances						
SAC	1.000	0.000	0.000	1.000	1.000	
PHYSCON	1.000	0.000	0.000	1.000	1.000	
SLOPESAC	1.000	0.000	0.000	1.000	1.000	
LNVSAC	1.000	0.000	0.000	1.000	1.000	
Residual Variances						
BASTTDC	0.583	0.149	0.000	0.233	0.812	*
BASHKR	0.873	0.104	0.000	0.609	0.990	*
BASSSSC	0.578	0.217	0.000	0.072	0.881	*

STD Standardization

	Estimate	Posterior S.D.	One-Tailed P-Value	95% C.I. Lower 2.5% Upper 2.5%		Significance
--	----------	-------------------	-----------------------	-----------------------------------	--	--------------

Within-Level Standardized Estimates Averaged Over Clusters

SLOPESAC SAC ON TSBASE	-0.004	0.003	0.043	-0.009	0.001	
LNVSAC SAC	0.118	0.013	0.000	0.097	0.150	*
Between Level						
PHYSCON BY BASHKR	2.514	1.018	0.000	0.683	4.627	*
BASSSSC	1.073	0.287	0.000	0.552	1.636	*
BASTTDC ON PHYSCON	1.734	0.489	0.000	0.873	2.770	*
SLOPESAC	0.119	0.430	0.390	-0.733	0.956	
LNVSAC	0.442	0.578	0.222	-0.725	1.549	
BASTTDC ON SAC	0.473	0.772	0.262	-1.047	2.021	
SEX	1.663	0.747	0.011	0.237	3.176	*
YOL	-0.256	0.094	0.003	-0.440	-0.072	*
BASAGEC90	-0.226	0.096	0.010	-0.415	-0.038	*
SAC WITH SLOPESAC	-0.160	0.077	0.014	-0.317	-0.016	*
LNVSAC	-0.170	0.099	0.051	-0.352	0.035	
SLOPESAC WITH LNVSAC	-0.018	0.173	0.460	-0.349	0.320	
Means						
SAC	4.074	0.058	0.000	3.959	4.185	*
SLOPESAC	-0.175	0.135	0.096	-0.442	0.089	
LNVSAC	-3.784	0.770	0.000	-5.661	-2.664	*
Intercepts						
BASTTDC	5.425	2.814	0.026	-0.085	11.036	
BASHKR	18.478	0.671	0.000	17.165	19.787	*
BASSSSC	1.329	0.151	0.000	1.033	1.625	*
Variances						
SAC	0.286	0.058	0.000	0.191	0.420	*
PHYSCON	1.000	0.000	0.000	1.000	1.000	
SLOPESAC	1.000	0.000	0.000	1.000	1.000	
LNVSAC	1.000	0.000	0.000	1.000	1.000	
Residual Variances						
BASTTDC	6.361	1.754	0.000	2.600	9.604	*
BASHKR	42.926	7.456	0.000	29.449	58.760	*
BASSSSC	1.555	0.611	0.000	0.197	2.548	*
R-SQUARE						
Within-Level R-Square Averaged Across Clusters						
Variable	Estimate	Posterior S.D.	One-Tailed P-Value	95% C.I. Lower 2.5% Upper 2.5%		
SAC	0.161	0.016	0.000	0.131	0.192	
Between Level						
Variable	Estimate	Posterior S.D.	One-Tailed P-Value	95% C.I. Lower 2.5% Upper 2.5%		
BASTTDC	0.417	0.149	0.000	0.188	0.767	
BASHKR	0.127	0.104	0.000	0.010	0.391	
BASSSSC	0.422	0.217	0.000	0.119	0.928	

TECHNICAL 8 OUTPUT

TECHNICAL 8 OUTPUT FOR BAYES ESTIMATION

CHAIN	BSEED	
1	0	
2	285380	

ITERATION	POTENTIAL SCALE REDUCTION	PARAMETER WITH HIGHEST PSR
100	4.390	3
200	3.596	3
300	2.652	3
400	1.600	7
500	1.370	17
600	1.214	12
700	1.063	23
800	1.030	15
900	1.022	15
1000	1.083	17
1100	1.175	3
1200	1.114	3
1300	1.136	7
1400	1.150	7
1500	1.151	7
1600	1.122	7
1700	1.124	5
1800	1.144	5
1900	1.165	7
2000	1.199	7
2100	1.196	7
2200	1.187	7
2300	1.278	7
2400	1.318	7
2500	1.307	7
2600	1.235	7
2700	1.163	3
2800	1.200	3
2900	1.183	3
3000	1.160	3
3100	1.105	17
3200	1.068	17
3300	1.043	17
3400	1.051	17
3500	1.064	17
3600	1.084	17
3700	1.094	17
3800	1.096	17
3900	1.105	20
4000	1.103	20
4100	1.106	20
4200	1.097	20
4300	1.101	20
4400	1.101	20
4500	1.135	20
4600	1.149	20
4700	1.137	20
4800	1.129	20
4900	1.134	20
5000	1.122	20
5100	1.106	20
5200	1.120	20
5300	1.092	20
5400	1.078	20
5500	1.060	20
5600	1.048	20
5700	1.041	20
5800	1.046	20
5900	1.038	20
6000	1.019	20
6100	1.014	3
6200	1.010	3
6300	1.007	3

6400	1.006	10
6500	1.005	10
6600	1.004	7
6700	1.005	7
6800	1.005	3
6900	1.016	3
7000	1.033	3
7100	1.050	3
7200	1.058	3
7300	1.073	3
7400	1.085	3
7500	1.098	3
7600	1.106	3
7700	1.101	3
7800	1.095	3
7900	1.090	3
8000	1.079	3
8100	1.069	3
8200	1.062	3
8300	1.062	3
8400	1.064	3
8500	1.064	3
8600	1.066	3
8700	1.066	3
8800	1.070	3
8900	1.075	3
9000	1.079	3
9100	1.078	3
9200	1.085	3
9300	1.093	3
9400	1.102	3
9500	1.097	3
9600	1.094	3
9700	1.089	3
9800	1.088	3
9900	1.087	3
10000	1.090	3
10100	1.096	3
10200	1.102	3
10300	1.110	3
10400	1.113	3
10500	1.106	3
10600	1.113	3
10700	1.115	3
10800	1.121	3
10900	1.120	3
11000	1.106	3
11100	1.097	3
11200	1.095	3
11300	1.090	3
11400	1.087	3
11500	1.087	3
11600	1.087	3
11700	1.088	3
11800	1.087	3
11900	1.083	3
12000	1.077	3
12100	1.076	3
12200	1.072	3
12300	1.069	3
12400	1.066	3
12500	1.070	3
12600	1.074	3
12700	1.077	3
12800	1.080	3
12900	1.081	3
13000	1.079	3
13100	1.079	3
13200	1.080	17
13300	1.087	17
13400	1.088	17
13500	1.083	17
13600	1.079	17
13700	1.073	3

13800	1.067	3
13900	1.062	3
14000	1.057	3
14100	1.053	3
14200	1.049	17
14300	1.047	3
14400	1.044	3
14500	1.040	3
14600	1.037	3
14700	1.035	3
14800	1.035	3
14900	1.036	3
15000	1.035	17
15100	1.040	17
15200	1.042	17
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96200	1.014	3
96300	1.014	3
96400	1.014	3
96500	1.014	3
96600	1.014	3
96700	1.014	3
96800	1.015	3
96900	1.015	3
97000	1.015	3
97100	1.015	3
97200	1.015	3
97300	1.014	3
97400	1.015	3
97500	1.015	3
97600	1.015	3
97700	1.015	3
97800	1.016	3
97900	1.017	3
98000	1.017	3
98100	1.018	3
98200	1.018	3
98300	1.018	3
98400	1.018	3
98500	1.017	3
98600	1.017	3
98700	1.017	3
98800	1.016	3
98900	1.016	3
99000	1.017	3
99100	1.018	3
99200	1.018	3
99300	1.018	3
99400	1.018	3
99500	1.018	3
99600	1.018	3
99700	1.019	3
99800	1.019	3
99900	1.019	3
100000	1.019	3
100100	1.019	3
100200	1.019	3
100300	1.018	3
100400	1.018	3
100500	1.019	3
100600	1.019	3
100700	1.018	3
100800	1.018	3
100900	1.018	3
101000	1.018	3
101100	1.018	3
101200	1.018	3
101300	1.019	3
101400	1.019	3
101500	1.019	3
101600	1.019	3
101700	1.019	3
101800	1.019	3
101900	1.018	3
102000	1.018	3
102100	1.018	3
102200	1.018	3
102300	1.018	3
102400	1.018	3
102500	1.017	3

102600	1.017	3
102700	1.016	3
102800	1.016	3
102900	1.015	3
103000	1.015	3
103100	1.015	3
103200	1.015	3
103300	1.015	3
103400	1.015	3
103500	1.015	3
103600	1.015	3
103700	1.014	3
103800	1.014	3
103900	1.014	3
104000	1.014	3
104100	1.014	3
104200	1.014	3
104300	1.014	3
104400	1.014	3
104500	1.014	3
104600	1.014	3
104700	1.014	3
104800	1.014	3
104900	1.014	3
105000	1.014	3
105100	1.014	3
105200	1.014	3
105300	1.014	3
105400	1.014	3
105500	1.014	3
105600	1.013	3
105700	1.013	3
105800	1.013	3
105900	1.013	3
106000	1.013	3
106100	1.012	3
106200	1.011	3
106300	1.011	3
106400	1.011	3
106500	1.011	3
106600	1.010	3
106700	1.010	3
106800	1.010	3
106900	1.010	3
107000	1.010	3
107100	1.010	3
107200	1.010	3
107300	1.010	3
107400	1.009	3
107500	1.009	3
107600	1.009	3
107700	1.009	3
107800	1.009	3
107900	1.009	3
108000	1.009	3
108100	1.009	3
108200	1.009	3
108300	1.009	3
108400	1.009	3
108500	1.009	3
108600	1.009	3
108700	1.009	3
108800	1.009	3
108900	1.009	3
109000	1.009	3
109100	1.008	3
109200	1.008	3
109300	1.008	3
109400	1.008	3
109500	1.009	3
109600	1.009	3
109700	1.009	3
109800	1.009	3
109900	1.009	3

110000	1.009	3
110100	1.009	3
110200	1.009	3
110300	1.009	3
110400	1.009	3
110500	1.009	3
110600	1.009	3
110700	1.009	3
110800	1.009	3
110900	1.009	3
111000	1.009	3
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111300	1.009	3
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111500	1.009	3
111600	1.009	3
111700	1.009	3
111800	1.009	3
111900	1.009	3
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112100	1.009	3
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112300	1.009	10
112400	1.009	10
112500	1.009	10
112600	1.009	10
112700	1.009	10
112800	1.009	10
112900	1.009	10
113000	1.009	10
113100	1.009	10
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113400	1.010	10
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113600	1.010	10
113700	1.010	10
113800	1.010	10
113900	1.010	10
114000	1.010	10
114100	1.010	10
114200	1.009	10
114300	1.010	10
114400	1.010	10
114500	1.010	10
114600	1.010	10
114700	1.009	10
114800	1.009	10
114900	1.009	10
115000	1.009	10
115100	1.009	10
115200	1.009	10
115300	1.009	10
115400	1.009	10
115500	1.009	10
115600	1.009	10
115700	1.010	10
115800	1.009	10
115900	1.009	10
116000	1.009	10
116100	1.009	10
116200	1.009	10
116300	1.009	10
116400	1.009	10
116500	1.009	10
116600	1.009	10
116700	1.009	10
116800	1.009	10
116900	1.009	10
117000	1.009	10
117100	1.009	10
117200	1.009	10
117300	1.009	10

117400	1.009	10
117500	1.009	3
117600	1.009	3
117700	1.009	3
117800	1.008	3
117900	1.008	10
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118100	1.007	10
118200	1.007	10
118300	1.007	10
118400	1.007	10
118500	1.007	10
118600	1.007	10
118700	1.007	10
118800	1.007	10
118900	1.007	10
119000	1.007	10
119100	1.007	10
119200	1.007	10
119300	1.007	10
119400	1.007	3
119500	1.007	3
119600	1.007	3
119700	1.006	3
119800	1.006	3
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120200	1.006	10
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120500	1.006	3
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121600	1.004	10
121700	1.004	10
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122300	1.004	3
122400	1.004	3
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122800	1.004	3
122900	1.004	3
123000	1.004	3
123100	1.004	10
123200	1.004	10
123300	1.004	10
123400	1.004	10
123500	1.004	10
123600	1.004	10
123700	1.004	10
123800	1.004	10
123900	1.004	10
124000	1.004	10
124100	1.004	3
124200	1.004	3
124300	1.004	3
124400	1.004	3
124500	1.004	3
124600	1.004	3
124700	1.004	3

124800	1.004	3
124900	1.004	3
125000	1.004	3
125100	1.004	3
125200	1.004	3
125300	1.003	3
125400	1.003	3
125500	1.003	3
125600	1.003	3
125700	1.003	3
125800	1.003	3
125900	1.003	3
126000	1.003	3
126100	1.003	3
126200	1.003	3
126300	1.003	3
126400	1.003	3
126500	1.003	3
126600	1.003	3
126700	1.003	3
126800	1.003	3
126900	1.003	3
127000	1.003	3
127100	1.003	3
127200	1.003	3
127300	1.003	3
127400	1.003	3
127500	1.003	3
127600	1.003	3
127700	1.004	3
127800	1.004	3
127900	1.003	3
128000	1.003	3
128100	1.003	3
128200	1.003	3
128300	1.003	3
128400	1.003	3
128500	1.003	3
128600	1.003	3
128700	1.003	3
128800	1.003	3
128900	1.003	3
129000	1.003	3
129100	1.003	3
129200	1.003	10
129300	1.003	10
129400	1.003	10
129500	1.003	10
129600	1.003	10
129700	1.003	10
129800	1.003	10
129900	1.003	10
130000	1.003	10
130100	1.003	10
130200	1.003	10
130300	1.003	10
130400	1.003	10
130500	1.003	10
130600	1.003	10
130700	1.003	10
130800	1.003	10
130900	1.002	10
131000	1.002	10
131100	1.002	10
131200	1.002	10
131300	1.002	10
131400	1.002	10
131500	1.002	3
131600	1.002	3
131700	1.002	3
131800	1.002	3

TECHNICAL 5 OUTPUT

DIAGRAM INFORMATION

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

Beginning Time: 16:16:45
Ending Time: 16:39:21
Elapsed Time: 00:22:36

MUTHEN & MUTHEN
3463 Stoner Ave.
Los Angeles, CA 90066

Tel: (310) 391-9971
Fax: (310) 391-8971
Web: www.StatModel.com
Support: Support@StatModel.com

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Mplus Output Single Multilevel SEM – Life Satisfaction:

```

Mplus VERSION 8.5
MUTHEN & MUTHEN
10/12/2021 6:25 PM

INPUT INSTRUCTIONS

TITLE:

DATA: FILE = mpltry6.dat;

VARIABLE:
  NAMES = pno wave sex yol verst nopart
          basagec90 agec90 tims tsbase
          ttd ttdcens basettd basttdc
          aut pil ema sac dep
          pa na swls adlinv hyp
          visus sfenerg sfsofunc sfpain sfgen sfchang
          anges anget akzet mortinv mortperc
          basadlinv basvisus bashkr bassssc
          bassfen bassfso bassfpain bassfgen bassfcha
          hkr sl sssco;
  USEVARIABLES = swls tsbase basttdc bashkr bassssc basagec90 sex yol;
  CLUSTER = PNO;
  MISSING = .;
  WITHIN = tsbase;
  BETWEEN = basttdc bashkr bassssc sex yol basagec90;

DEFINE:
  CENTER sex yol (grandmean);

ANALYSIS:
  TYPE = TWOLEVEL RANDOM;
  ESTIMATOR = BAYES;
  CHAINS = 2;
  BITERATIONS=1000000;
  BCONVERGENCE = 0.00125;

MODEL:

  %WITHIN%

  slopels | swls ON tsbase;
  lnvl | swls;

  %BETWEEN%
  physcon BY bashkr@1 bassssc;

  basttdc ON swls
            sex
            yol
            physcon
            basagec90
            slopels
            lnvl;

  [ swls*3.84819 ] (m6);
  [ slopels*-0.00061 ] (ms6);
  [ lnvl*-1.94704 ] (mv6);

  basttdc*6.66980;
  swls*0.44294;
  slopels*0.00041;

  swls WITH slopels lnvl;
  slopels WITH lnvl;

MODEL PRIORS:
  m6 ~ N(3.66, 0.372);
  ms6 ~ N(0.045, 0.00053);

```

OUTPUT:

standardized tech5 tech8 tech16;

*** WARNING in MODEL command

In the MODEL command, the following variable is an x-variable on the BETWEEN level and a y-variable on the WITHIN level. This variable will be treated as a y-variable on both levels: SWLS

*** WARNING

One or more individual-level variables have no variation within a cluster for the following clusters.

Variable Cluster IDs with no within-cluster variation

SWLS	10130 10144 10313 10473 10893 11240 11297 11741 15018 16142 16798 11258 15510
	18252 10228

3 WARNING(S) FOUND IN THE INPUT INSTRUCTIONS

SUMMARY OF ANALYSIS

Number of groups	1
Number of observations	682

Number of dependent variables	4
Number of independent variables	4
Number of continuous latent variables	3

Observed dependent variables

Continuous			
BASTTDC	BASHKR	BASSSSC	SWLS

Observed independent variables

TSBASE	BASAGEC9	SEX	YOL
--------	----------	-----	-----

Continuous latent variables

PHYSCON	SLOPELS	LNVL5
---------	---------	-------

Variables with special functions

Cluster variable PNO

Within variables
TSBASE

Between variables

BASTTDC	BASHKR	BASSSSC	BASAGEC9	SEX	YOL
---------	--------	---------	----------	-----	-----

Centering (GRANDMEAN)

SEX	YOL
-----	-----

Estimator	BAYES
-----------	-------

Specifications for Bayesian Estimation

Point estimate	MEDIAN
Number of Markov chain Monte Carlo (MCMC) chains	2
Random seed for the first chain	0
Starting value information	UNPERTURBED
Algorithm used for Markov chain Monte Carlo	GIBBS(PX1)
Convergence criterion	0.125D-02
Maximum number of iterations	1000000
K-th iteration used for thinning	1

Input data file(s)

mpltry6.dat

Input data format FREE

SUMMARY OF DATA

Number of clusters	124									
Size (s)	Cluster ID with Size s									
1	10026	10130	10144	10313	10473	10558	10567	10637	10663	
	10893	10901	10907	10911	10939	10969	11157	11240	11294	
	11297	11741	15018	15177	15241	15319	15564	16142	16423	
	16610	16669	16798	17542	18507	18650				
2	15239	11258	10181	15510	10615	11341	16303	11371	16510	
	11384	11485	11028	16862	10211	17780	18004	18252	15175	
	10228									
3	11573	11295	17130	11100	17745	10340	10460	10461	10210	
	11501									
4	10904	11457	10434	11493	10811	17593				
5	15424	10666	12411	11343	11005					
6	10159	15092	15121	15426	11593	11163	10139	16220	19067	
7	10354	11230	10894	10724	10470					
8	10252	10528	11038	10033	11336	11253				
9	15623	11055								
10	12037	10167	17197	15009	19500					
11	11233	10444	15714	10533						
12	11079	10577	15378	12714	10986	10428				
13	11420	11002								
14	11450									
15	10108	10906	10551	15231	10902					
16	15141	10940	16103	15472	11528	11378				

COVARIANCE COVERAGE OF DATA

Minimum covariance coverage value 0.100

Number of missing data patterns 7

PROPORTION OF DATA PRESENT

	Covariance Coverage				
	BASTTDC	BASHKR	BASSSSC	SWLS	TSBASE
BASTTDC	0.944				
BASHKR	0.912	0.968			
BASSSSC	0.935	0.968	0.991		
SWLS	0.918	0.956	0.968	0.974	
TSBASE	0.944	0.968	0.991	0.974	1.000
BASAGEC9	0.944	0.968	0.991	0.974	1.000
SEX	0.944	0.968	0.991	0.974	1.000
YOL	0.944	0.968	0.991	0.974	1.000

	Covariance Coverage		
	BASAGEC9	SEX	YOL
BASAGEC9	1.000		
SEX	1.000	1.000	
YOL	1.000	1.000	1.000

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%/80%	Median
BASTTDC	5.519	0.456	0.250	0.83%	2.250	4.250	5.083

	120.000	10.267	-0.614	12.667	1.67%	6.083	8.250	
BASHKR		18.519	1.282	5.330	0.89%	12.330	16.500	17.750
	112.000	48.308	2.780	49.000	0.89%	18.670	23.330	
BASSSSC		1.333	0.640	0.000	53.33%	0.000	0.000	0.000
	120.000	2.606	-1.294	4.000	17.50%	1.000	3.000	
SWLS		3.782	-0.748	1.000	0.30%	3.200	3.750	3.800
	664.000	0.591	0.556	5.000	5.72%	4.000	4.400	
TSBASE		36.711	0.258	0.000	3.08%	13.000	27.000	36.000
	682.000	594.554	-0.917	91.000	0.59%	41.000	60.000	
BASAGEC90		0.106	0.407	-3.917	0.81%	-2.833	-1.250	-0.792
	124.000	8.313	-1.090	6.417	0.81%	0.500	3.083	
SEX		0.000	-1.426	-0.790	20.97%	-0.790	0.210	0.210
	124.000	0.166	0.035	0.210	79.03%	0.210	0.210	
YOL		0.000	0.868	-3.387	20.97%	-3.387	-1.387	-1.387
	124.000	8.737	-0.315	5.613	17.74%	0.613	0.613	

THE MODEL ESTIMATION TERMINATED NORMALLY

USE THE FBITERATIONS OPTION TO INCREASE THE NUMBER OF ITERATIONS BY A FACTOR
OF AT LEAST TWO TO CHECK CONVERGENCE AND THAT THE PSR VALUE DOES NOT INCREASE.

MODEL FIT INFORMATION

Number of Free Parameters	24
Information Criteria	
Deviance (DIC)	2747.537
Estimated Number of Parameters (pD)	238.686

MODEL RESULTS

	Estimate	Posterior S.D.	One-Tailed P-Value	95% C.I.		Significance
				Lower 2.5%	Upper 2.5%	
Within Level						
Between Level						
PHYSCON BY						
BASHKR	1.000	0.000	0.000	1.000	1.000	
BASSSSC	0.444	0.428	0.000	0.166	1.664	*
BASTTDC ON						
PHYSCON	0.708	0.579	0.000	0.295	2.447	*
SLOPELS	-5.266	18.198	0.388	-40.111	31.313	
LNVL	0.196	0.965	0.416	-1.772	2.016	
BASTTDC ON						
SWLS	0.304	0.527	0.277	-0.729	1.356	
SEX	1.646	0.742	0.012	0.221	3.147	*
YOL	-0.278	0.094	0.002	-0.461	-0.093	*
BASAGEC90	-0.230	0.095	0.008	-0.418	-0.043	*
SWLS WITH						
SLOPELS	-0.005	0.003	0.023	-0.012	0.000	*
LNVL	-0.155	0.097	0.048	-0.355	0.027	
SLOPELS WITH						
LNVL	0.001	0.003	0.274	-0.003	0.007	
Means						
SWLS	3.683	0.082	0.000	3.520	3.841	*
SLOPELS	0.002	0.003	0.271	-0.005	0.009	
LNVL	-1.971	0.113	0.000	-2.196	-1.751	*
Intercepts						
BASTTDC	4.907	1.986	0.008	1.022	8.864	*
BASHKR	18.477	0.672	0.000	17.149	19.790	*

BASSSSC	1.331	0.151	0.000	1.031	1.626	*
Variances						
SWLS	0.595	0.111	0.000	0.418	0.851	*
PHYSCON	5.863	5.303	0.000	0.530	20.214	*
SLOPELS	0.001	0.000	0.000	0.000	0.001	*
LNVLs	0.381	0.143	0.000	0.171	0.725	*
Residual Variances						
BASTTDC	6.517	1.805	0.000	2.492	9.784	*
BASHKR	43.164	7.396	0.000	29.946	59.046	*
BASSSSC	1.554	0.630	0.000	0.181	2.570	*
STANDARDIZED MODEL RESULTS						
STDYX Standardization						
	Estimate	Posterior S.D.	One-Tailed P-Value	95% C.I. Lower 2.5% Upper 2.5%		Significance
Within-Level Standardized Estimates Averaged Over Clusters						
SLOPELS SWLS ON TSBASE	0.013	0.025	0.294	-0.034	0.062	
LNVLs SWLS	0.865	0.013	0.000	0.836	0.889	*
Between Level						
PHYSCON BY BASHKR	0.343	0.133	0.000	0.104	0.612	*
BASSSSC	0.649	0.168	0.000	0.341	0.966	*
BASTTDC ON PHYSCON	0.513	0.143	0.000	0.254	0.806	*
SLOPELS	-0.038	0.130	0.388	-0.285	0.226	
LNVLs	0.037	0.168	0.416	-0.305	0.351	
BASTTDC ON SWLS	0.071	0.121	0.277	-0.167	0.310	
SEX	0.145	0.063	0.012	0.019	0.265	*
YOL	-0.177	0.059	0.002	-0.288	-0.059	*
BASAGEC90	-0.133	0.055	0.008	-0.238	-0.025	*
SWLS WITH SLOPELS	-0.289	0.135	0.023	-0.532	-0.004	*
LNVLs	-0.338	0.184	0.048	-0.650	0.058	
SLOPELS WITH LNVLs	0.100	0.161	0.274	-0.224	0.404	
Means						
SWLS	4.776	0.459	0.000	3.949	5.743	*
SLOPELS	0.086	0.141	0.271	-0.192	0.361	
LNVLs	-3.206	0.663	0.000	-4.744	-2.272	*
Intercepts						
BASTTDC	1.479	0.597	0.008	0.300	2.651	*
BASHKR	2.617	0.201	0.000	2.230	3.016	*
BASSSSC	0.808	0.106	0.000	0.599	1.016	*
Variances						
SWLS	1.000	0.000	0.000	1.000	1.000	
PHYSCON	1.000	0.000	0.000	1.000	1.000	
SLOPELS	1.000	0.000	0.000	1.000	1.000	
LNVLs	1.000	0.000	0.000	1.000	1.000	
Residual Variances						
BASTTDC	0.597	0.154	0.000	0.224	0.819	*
BASHKR	0.882	0.098	0.000	0.625	0.989	*
BASSSSC	0.578	0.223	0.000	0.067	0.884	*

STDY Standardization

	Estimate	Posterior S.D.	One-Tailed P-Value	95% C.I. Lower 2.5% Upper 2.5%		Significance
Within-Level Standardized Estimates Averaged Over Clusters						
SLOPELS SWLS ON TSBASE	0.003	0.007	0.334	-0.010	0.017	
LNVLs SWLS	0.865	0.013	0.000	0.836	0.889	*
Between Level						
PHYSCON BY						
BASHKR	0.343	0.133	0.000	0.104	0.612	*
BASSSSC	0.649	0.168	0.000	0.341	0.966	*
BASTTDC ON						
PHYSCON	0.513	0.143	0.000	0.254	0.806	*
SLOPELS	-0.038	0.130	0.388	-0.285	0.226	
LNVLs	0.037	0.168	0.416	-0.305	0.351	
BASTTDC ON						
SWLS	0.071	0.121	0.277	-0.167	0.310	
SEX	0.497	0.215	0.012	0.066	0.910	*
YOL	-0.084	0.028	0.002	-0.136	-0.028	*
BASAGEC90	-0.069	0.028	0.008	-0.124	-0.013	*
SWLS WITH						
SLOPELS	-0.289	0.135	0.023	-0.532	-0.004	*
LNVLs	-0.338	0.184	0.048	-0.650	0.058	
SLOPELS WITH LNVLs	0.100	0.161	0.274	-0.224	0.404	
Means						
SWLS	4.776	0.459	0.000	3.949	5.743	*
SLOPELS	0.086	0.141	0.271	-0.192	0.361	
LNVLs	-3.206	0.663	0.000	-4.744	-2.272	*
Intercepts						
BASTTDC	1.479	0.597	0.008	0.300	2.651	*
BASHKR	2.617	0.201	0.000	2.230	3.016	*
BASSSSC	0.808	0.106	0.000	0.599	1.016	*
Variances						
SWLS	1.000	0.000	0.000	1.000	1.000	
PHYSCON	1.000	0.000	0.000	1.000	1.000	
SLOPELS	1.000	0.000	0.000	1.000	1.000	
LNVLs	1.000	0.000	0.000	1.000	1.000	
Residual Variances						
BASTTDC	0.597	0.154	0.000	0.224	0.819	*
BASHKR	0.882	0.098	0.000	0.625	0.989	*
BASSSSC	0.578	0.223	0.000	0.067	0.884	*

STD Standardization

	Estimate	Posterior S.D.	One-Tailed P-Value	95% C.I.		
				Lower 2.5%	Upper 2.5%	Significance
Within-Level Standardized Estimates Averaged Over Clusters						
SLOPELS SWLS ON TSBASE	0.001	0.003	0.271	-0.003	0.007	
LNVL SWLS	0.163	0.024	0.000	0.131	0.224	*

Between Level

PHYSCON BY						
BASHKR	2.421	0.982	0.000	0.728	4.496	*
BASSSSC	1.074	0.294	0.000	0.544	1.645	*
BASTTDC ON						
PHYSCON	1.707	0.507	0.000	0.822	2.771	*
SLOPELS	-0.126	0.438	0.388	-0.966	0.755	
LNVLs	0.121	0.564	0.416	-1.016	1.202	
BASTTDC ON						
SWLS	0.304	0.527	0.277	-0.729	1.356	
SEX	1.646	0.742	0.012	0.221	3.147	*
YOL	-0.278	0.094	0.002	-0.461	-0.093	*
BASAGEC90	-0.230	0.095	0.008	-0.418	-0.043	*
SWLS WITH						
SLOPELS	-0.221	0.115	0.023	-0.453	-0.003	*
LNVLs	-0.258	0.146	0.048	-0.525	0.045	
SLOPELS WITH						
LNVLs	0.100	0.161	0.274	-0.224	0.404	
Means						
SWLS	3.683	0.082	0.000	3.520	3.841	*
SLOPELS	0.086	0.141	0.271	-0.192	0.361	
LNVLs	-3.206	0.663	0.000	-4.744	-2.272	*
Intercepts						
BASTTDC	4.907	1.986	0.008	1.022	8.864	*
BASHKR	18.477	0.672	0.000	17.149	19.790	*
BASSSSC	1.331	0.151	0.000	1.031	1.626	*
Variances						
SWLS	0.595	0.111	0.000	0.418	0.851	*
PHYSCON	1.000	0.000	0.000	1.000	1.000	
SLOPELS	1.000	0.000	0.000	1.000	1.000	
LNVLs	1.000	0.000	0.000	1.000	1.000	
Residual Variances						
BASTTDC	6.517	1.805	0.000	2.492	9.784	*
BASHKR	43.164	7.396	0.000	29.946	59.046	*
BASSSSC	1.554	0.630	0.000	0.181	2.570	*

R-SQUARE

Within-Level R-Square Averaged Across Clusters

Variable	Estimate	Posterior S.D.	One-Tailed P-Value	95% C.I.	
				Lower 2.5%	Upper 2.5%
SWLS	0.135	0.013	0.000	0.111	0.163

Between Level

Variable	Estimate	Posterior S.D.	One-Tailed P-Value	95% C.I.	
				Lower 2.5%	Upper 2.5%
BASTTDC	0.403	0.154	0.000	0.181	0.776
BASHKR	0.118	0.098	0.000	0.011	0.375
BASSSSC	0.422	0.223	0.000	0.116	0.933

TECHNICAL 8 OUTPUT

TECHNICAL 8 OUTPUT FOR BAYES ESTIMATION

CHAIN BSEED
1 0

2

285380

ITERATION	POTENTIAL SCALE REDUCTION	PARAMETER WITH HIGHEST PSR
100	2.576	17
200	2.150	20
300	2.646	20
400	2.959	20
500	1.482	20
600	1.252	10
700	1.322	10
800	1.633	23
900	1.948	23
1000	2.136	23
1100	1.955	23
1200	1.644	20
1300	1.691	20
1400	1.703	20
1500	1.608	7
1600	1.686	7
1700	1.569	7
1800	1.602	20
1900	1.645	20
2000	1.577	7
2100	1.543	20
2200	1.431	7
2300	1.362	7
2400	1.292	7
2500	1.186	7
2600	1.192	7
2700	1.106	7
2800	1.051	7
2900	1.063	21
3000	1.069	21
3100	1.053	21
3200	1.054	5
3300	1.066	5
3400	1.075	5
3500	1.081	5
3600	1.074	5
3700	1.063	5
3800	1.048	5
3900	1.031	5
4000	1.026	7
4100	1.032	7
4200	1.048	7
4300	1.048	7
4400	1.060	7
4500	1.081	7
4600	1.102	7
4700	1.124	7
4800	1.117	7
4900	1.133	7
5000	1.139	7
5100	1.113	7
5200	1.095	7
5300	1.092	7
5400	1.099	7
5500	1.103	7
5600	1.090	7
5700	1.099	7
5800	1.119	7
5900	1.136	7
6000	1.134	7
6100	1.129	7
6200	1.121	7
6300	1.103	7
6400	1.084	7
6500	1.070	7
6600	1.062	7
6700	1.054	7
6800	1.047	7
6900	1.044	10
7000	1.043	7

7100	1.043	10
7200	1.043	10
7300	1.039	10
7400	1.041	10
7500	1.046	10
7600	1.049	10
7700	1.053	10
7800	1.056	10
7900	1.059	10
8000	1.059	10
8100	1.059	10
8200	1.069	10
8300	1.080	10
8400	1.071	10
8500	1.075	10
8600	1.080	10
8700	1.080	10
8800	1.087	10
8900	1.086	10
9000	1.086	10
9100	1.094	10
9200	1.097	10
9300	1.096	10
9400	1.097	10
9500	1.093	10
9600	1.091	10
9700	1.086	10
9800	1.081	10
9900	1.085	10
10000	1.082	10
10100	1.076	10
10200	1.069	10
10300	1.067	10
10400	1.062	10
10500	1.061	10
10600	1.062	10
10700	1.057	10
10800	1.056	10
10900	1.055	10
11000	1.053	10
11100	1.052	10
11200	1.052	10
11300	1.052	10
11400	1.050	10
11500	1.049	10
11600	1.045	10
11700	1.044	10
11800	1.044	10
11900	1.042	10
12000	1.042	10
12100	1.042	10
12200	1.039	7
12300	1.043	7
12400	1.045	7
12500	1.044	7
12600	1.043	7
12700	1.045	7
12800	1.048	7
12900	1.049	7
13000	1.055	7
13100	1.053	7
13200	1.050	7
13300	1.047	7
13400	1.046	7
13500	1.046	7
13600	1.042	7
13700	1.040	7
13800	1.038	7
13900	1.036	7
14000	1.038	7
14100	1.040	7
14200	1.041	7
14300	1.047	7
14400	1.052	7

14500	1.054	7
14600	1.056	7
14700	1.059	7
14800	1.063	7
14900	1.065	7
15000	1.066	7
15100	1.061	7
15200	1.055	7
15300	1.053	7
15400	1.051	7
15500	1.047	7
15600	1.051	7
15700	1.051	7
15800	1.055	7
15900	1.057	7
16000	1.063	7
16100	1.067	7
16200	1.069	7
16300	1.063	7
16400	1.061	7
16500	1.059	7
16600	1.058	7
16700	1.053	7
16800	1.055	7
16900	1.053	7
17000	1.049	7
17100	1.044	7
17200	1.042	7
17300	1.043	7
17400	1.045	10
17500	1.045	10
17600	1.044	10
17700	1.045	10
17800	1.044	10
17900	1.044	10
18000	1.044	10
18100	1.043	10
18200	1.041	10
18300	1.041	10
18400	1.040	10
18500	1.039	7
18600	1.044	7
18700	1.047	7
18800	1.046	7
18900	1.044	7
19000	1.041	7
19100	1.039	7
19200	1.039	7
19300	1.040	7
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19600	1.035	7
19700	1.035	10
19800	1.034	10
19900	1.035	7
20000	1.036	7
20100	1.037	7
20200	1.037	7
20300	1.037	7
20400	1.038	7
20500	1.039	7
20600	1.039	7
20700	1.040	7
20800	1.042	7
20900	1.045	7
21000	1.045	7
21100	1.040	7
21200	1.036	7
21300	1.033	7
21400	1.032	7
21500	1.031	7
21600	1.029	7
21700	1.028	7
21800	1.028	7

21900	1.025	7
22000	1.022	7
22100	1.022	7
22200	1.021	3
22300	1.020	3
22400	1.020	3
22500	1.022	7
22600	1.023	7
22700	1.022	7
22800	1.022	7
22900	1.021	7
23000	1.019	3
23100	1.018	3
23200	1.018	3
23300	1.018	3
23400	1.018	3
23500	1.018	3
23600	1.018	3
23700	1.018	3
23800	1.021	3
23900	1.023	3
24000	1.024	3
24100	1.025	3
24200	1.027	3
24300	1.029	3
24400	1.031	3
24500	1.033	3
24600	1.032	3
24700	1.032	3
24800	1.032	3
24900	1.031	3
25000	1.031	3
25100	1.031	3
25200	1.031	3
25300	1.032	3
25400	1.034	3
25500	1.034	3
25600	1.035	3
25700	1.035	3
25800	1.035	3
25900	1.034	3
26000	1.034	3
26100	1.033	3
26200	1.032	3
26300	1.031	3
26400	1.031	3
26500	1.031	3
26600	1.030	3
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26800	1.029	3
26900	1.029	3
27000	1.029	3
27100	1.029	3
27200	1.029	3
27300	1.029	3
27400	1.029	3
27500	1.029	3
27600	1.029	3
27700	1.029	3
27800	1.028	3
27900	1.028	3
28000	1.029	3
28100	1.029	3
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28300	1.029	3
28400	1.029	3
28500	1.029	3
28600	1.030	3
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28800	1.029	3
28900	1.029	3
29000	1.028	3
29100	1.027	3
29200	1.027	3

29300	1.027	3
29400	1.027	3
29500	1.027	3
29600	1.026	3
29700	1.026	3
29800	1.026	3
29900	1.026	3
30000	1.026	3
30100	1.026	3
30200	1.026	3
30300	1.027	3
30400	1.027	3
30500	1.027	3
30600	1.027	3
30700	1.028	3
30800	1.028	3
30900	1.027	10
31000	1.026	10
31100	1.026	10
31200	1.026	10
31300	1.026	10
31400	1.026	10
31500	1.026	10
31600	1.026	10
31700	1.026	10
31800	1.026	10
31900	1.026	10
32000	1.026	10
32100	1.025	10
32200	1.026	10
32300	1.025	10
32400	1.025	10
32500	1.024	10
32600	1.022	10
32700	1.020	10
32800	1.019	10
32900	1.019	10
33000	1.018	10
33100	1.017	10
33200	1.016	10
33300	1.015	10
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33500	1.013	10
33600	1.012	10
33700	1.011	10
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33900	1.009	10
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34400	1.007	23
34500	1.007	23
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34900	1.010	23
35000	1.010	23
35100	1.010	23
35200	1.010	23
35300	1.010	23
35400	1.010	23
35500	1.010	23
35600	1.010	23
35700	1.010	23
35800	1.010	23
35900	1.010	23
36000	1.010	23
36100	1.010	23
36200	1.010	23
36300	1.011	23
36400	1.011	23
36500	1.010	23
36600	1.010	23

36700	1.009	23
36800	1.009	23
36900	1.009	23
37000	1.009	23
37100	1.008	23
37200	1.008	23
37300	1.007	23
37400	1.006	23
37500	1.006	23
37600	1.005	23
37700	1.005	23
37800	1.005	23
37900	1.005	23
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38200	1.006	5
38300	1.006	5
38400	1.005	7
38500	1.006	5
38600	1.007	5
38700	1.007	5
38800	1.008	5
38900	1.008	5
39000	1.007	5
39100	1.008	5
39200	1.008	5
39300	1.008	5
39400	1.008	5
39500	1.009	5
39600	1.010	5
39700	1.010	5
39800	1.009	5
39900	1.008	5
40000	1.008	5
40100	1.008	5
40200	1.008	5
40300	1.007	5
40400	1.007	5
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40600	1.007	5
40700	1.007	5
40800	1.007	5
40900	1.006	5
41000	1.006	5
41100	1.006	5
41200	1.007	7
41300	1.007	7
41400	1.007	5
41500	1.007	5
41600	1.007	5
41700	1.007	5
41800	1.007	5
41900	1.008	5
42000	1.008	5
42100	1.008	5
42200	1.007	5
42300	1.008	5
42400	1.008	5
42500	1.009	5
42600	1.009	5
42700	1.009	5
42800	1.009	5
42900	1.009	5
43000	1.008	5
43100	1.008	5
43200	1.008	5
43300	1.008	5
43400	1.008	5
43500	1.008	5
43600	1.008	5
43700	1.008	5
43800	1.008	5
43900	1.008	5
44000	1.009	5

44100	1.009	5
44200	1.008	5
44300	1.008	5
44400	1.009	5
44500	1.009	5
44600	1.008	5
44700	1.009	5
44800	1.009	5
44900	1.010	5
45000	1.010	5
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45200	1.008	5
45300	1.007	5
45400	1.007	5
45500	1.006	5
45600	1.006	20
45700	1.006	20
45800	1.006	20
45900	1.006	5
46000	1.006	5
46100	1.006	5
46200	1.006	5
46300	1.006	5
46400	1.006	5
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47100	1.006	7
47200	1.006	7
47300	1.006	7
47400	1.006	7
47500	1.006	7
47600	1.005	7
47700	1.005	7
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47900	1.005	7
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48100	1.004	7
48200	1.005	5
48300	1.005	5
48400	1.006	5
48500	1.007	5
48600	1.007	5
48700	1.007	5
48800	1.008	5
48900	1.009	5
49000	1.008	5
49100	1.008	5
49200	1.006	5
49300	1.006	5
49400	1.005	7
49500	1.006	7
49600	1.007	7
49700	1.007	7
49800	1.007	7
49900	1.007	7
50000	1.007	7
50100	1.008	7
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50300	1.007	7
50400	1.006	7
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50700	1.006	7
50800	1.006	7
50900	1.005	7
51000	1.004	7
51100	1.004	7
51200	1.004	7
51300	1.005	7
51400	1.005	7

51500	1.006	7
51600	1.006	7
51700	1.005	7
51800	1.005	7
51900	1.004	7
52000	1.004	7
52100	1.004	7
52200	1.004	20
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52400	1.004	20
52500	1.005	20
52600	1.005	20
52700	1.004	20
52800	1.003	20
52900	1.004	20
53000	1.003	20
53100	1.003	20
53200	1.003	20
53300	1.003	20
53400	1.003	20
53500	1.003	20
53600	1.004	20
53700	1.004	20
53800	1.004	20
53900	1.003	20
54000	1.002	20
54100	1.002	20

TECHNICAL 5 OUTPUT

DIAGRAM INFORMATION

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

Beginning Time: 18:25:34
Ending Time: 18:34:45
Elapsed Time: 00:09:11

MUTHEN & MUTHEN
3463 Stoner Ave.
Los Angeles, CA 90066

Tel: (310) 391-9971
Fax: (310) 391-8971
Web: www.StatModel.com
Support: Support@StatModel.com

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Mplus Output Single Multilevel SEM – Positive Affect:

```

Mplus VERSION 8.5
MUTHEN & MUTHEN
10/13/2021 12:16 PM

INPUT INSTRUCTIONS

TITLE:

DATA: FILE = mpltry6.dat;

VARIABLE:
  NAMES = pno wave sex yol verst nopart
          basagec90 agec90 tims tsbase
          ttd ttdcens basettd basttdc
          aut pil ema sac dep
          pa na swls adlinv hyp
          visus sfenerg sfsofunc sfpain sfgen sfchang
          anges anget akzet mortinv mortperc
          basadlinv basvisus bashkr bassssc
          bassfen bassfso bassfpain bassfgen bassfcha
          hkr sl sssco;
  USEVARIABLES = pa tsbase basttdc bashkr bassssc basagec90 sex yol;
  MISSING = .;
  WITHIN = tsbase;
  BETWEEN = basttdc bashkr bassssc sex yol basagec90;

DEFINE:
  CENTER sex yol (grandmean);

ANALYSIS:
  TYPE = TWOLEVEL RANDOM;
  ESTIMATOR = BAYES;
  CHAINS = 2;
  BITERATIONS=1000000;
  BCONVERGENCE = 0.00125;

MODEL:

%WITHIN%

slopepa | pa ON tsbase;
lnvpa | pa;

%BETWEEN%

physcon BY bashkr@1 bassssc;

basttdc ON pa
          sex
          yol
          physcon
          basagec90
          slopepa
          lnvpa;

[ pa*3.33357 ] (m5);
[ slopepa*-0.01432 ] (ms5);
[ lnvpa*-2.25007 ] (mv5);

basttdc*6.66980;
pa*0.41394;
slopepa*0.00049;
lnvpa*0.55329;

pa WITH slopepa lnvpa;
slopepa WITH lnvpa;

MODEL PRIORS:

```

```
m5 ~ N(3.20,0.116);
ms5 ~ N(-0.044,0.000036);
```

OUTPUT:

```
standardized tech5 tech8 tech16;
```

*** WARNING in VARIABLE command

Note that only the first 8 characters of variable names are used in the output.
Shorten variable names to avoid any confusion.

*** WARNING in MODEL command

In the MODEL command, the following variable is an x-variable on the BETWEEN level and a y-variable on the WITHIN level. This variable will be treated as a y-variable on both levels: PA

*** WARNING

One or more individual-level variables have no variation within a cluster for the following clusters.

Variable Cluster IDs with no within-cluster variation

PA 10130 10144 10313 11240 11741 15018 16142 16798 18650 11028

3 WARNING(S) FOUND IN THE INPUT INSTRUCTIONS

SUMMARY OF ANALYSIS

Number of groups	1
Number of observations	682
Number of dependent variables	4
Number of independent variables	4
Number of continuous latent variables	3

Observed dependent variables

Continuous			
BASTTDC	BASHKR	BASSSSC	PA

Observed independent variables

TSBASE	BASAGEC9	SEX	YOL
--------	----------	-----	-----

Continuous latent variables

PHYSCON	SLOPEPA	LNVPA
---------	---------	-------

Variables with special functions

Cluster variable	PNO
------------------	-----

Within variables

TSBASE

Between variables

BASTTDC	BASHKR	BASSSSC	BASAGEC9	SEX	YOL
---------	--------	---------	----------	-----	-----

Centering (GRANDMEAN)

SEX	YOL
-----	-----

Estimator

BAYES

Specifications for Bayesian Estimation

Point estimate	MEDIAN
Number of Markov chain Monte Carlo (MCMC) chains	2
Random seed for the first chain	0
Starting value information	UNPERTURBED
Algorithm used for Markov chain Monte Carlo	GIBBS(PX1)
Convergence criterion	0.125D-02
Maximum number of iterations	1000000

K-th iteration used for thinning

1

Input data file(s)

mpltry6.dat

Input data format FREE

SUMMARY OF DATA

Number of clusters

124

Size (s)

Cluster ID with Size s

1	10026 10130 10144 10313 10473 10558 10567 10637 10663 10893 10901 10907 10911 10939 10969 11157 11240 11294 11297 11741 15018 15177 15241 15319 15564 16142 16423 16610 16669 16798 17542 18507 18650
2	15239 11258 10181 15510 10615 11341 16303 11371 16510 11384 11485 11028 16862 10211 17780 18004 18252 15175 10228
3	11573 11295 17130 11100 17745 10340 10460 10461 10210 11501
4	10904 11457 10434 11493 10811 17593
5	15424 10666 12411 11343 11005
6	10159 15092 15121 15426 11593 11163 10139 16220 19067
7	10354 11230 10894 10724 10470
8	10252 10528 11038 10033 11336 11253
9	15623 11055
10	12037 10167 17197 15009 19500
11	11233 10444 15714 10533
12	11079 10577 15378 12714 10986 10428
13	11420 11002
14	11450
15	10108 10906 10551 15231 10902
16	15141 10940 16103 15472 11528 11378

COVARIANCE COVERAGE OF DATA

Minimum covariance coverage value 0.100

Number of missing data patterns

8

PROPORTION OF DATA PRESENT

	Covariance Coverage				
	BASTTDC	BASHKR	BASSSSC	PA	TSBASE
BASTTDC	0.944				
BASHKR	0.912	0.968			
BASSSSC	0.935	0.968	0.991		
PA	0.908	0.943	0.956	0.962	
TSBASE	0.944	0.968	0.991	0.962	1.000
BASAGEC9	0.944	0.968	0.991	0.962	1.000
SEX	0.944	0.968	0.991	0.962	1.000
YOL	0.944	0.968	0.991	0.962	1.000

	Covariance Coverage		
	BASAGEC9	SEX	YOL
BASAGEC9	1.000		
SEX	1.000	1.000	
YOL	1.000	1.000	1.000

UNIVARIATE SAMPLE STATISTICS

UNIVARIATE HIGHER-ORDER MOMENT DESCRIPTIVE STATISTICS

Variable/ Sample Size	Mean/ Variance	Skewness/ Kurtosis	Minimum/ Maximum	% with Min/Max	20%/60%	Percentiles 40%/80%	Median
BASTTDC	5.519	0.456	0.250	0.83%	2.250	4.250	5.083
120.000	10.267	-0.614	12.667	1.67%	6.083	8.250	
BASHKR	18.519	1.282	5.330	0.89%	12.330	16.500	17.750
112.000	48.308	2.780	49.000	0.89%	18.670	23.330	
BASSSSC	1.333	0.640	0.000	53.33%	0.000	0.000	0.000
120.000	2.606	-1.294	4.000	17.50%	1.000	3.000	
PA	3.172	0.047	1.380	0.15%	2.600	3.000	3.135
656.000	0.406	-0.288	4.800	0.30%	3.300	3.700	
TSBASE	36.711	0.258	0.000	3.08%	13.000	27.000	36.000
682.000	594.554	-0.917	91.000	0.59%	41.000	60.000	
BASAGEC90	0.106	0.407	-3.917	0.81%	-2.833	-1.250	-0.792
124.000	8.313	-1.090	6.417	0.81%	0.500	3.083	
SEX	0.000	-1.426	-0.790	20.97%	-0.790	0.210	0.210
124.000	0.166	0.035	0.210	79.03%	0.210	0.210	
YOL	0.000	0.868	-3.387	20.97%	-3.387	-1.387	-1.387
124.000	8.737	-0.315	5.613	17.74%	0.613	0.613	

THE MODEL ESTIMATION TERMINATED NORMALLY

USE THE FBITERATIONS OPTION TO INCREASE THE NUMBER OF ITERATIONS BY A FACTOR
OF AT LEAST TWO TO CHECK CONVERGENCE AND THAT THE PSR VALUE DOES NOT INCREASE.

MODEL FIT INFORMATION

Number of Free Parameters 24

Information Criteria

Deviance (DIC) 2486.374
Estimated Number of Parameters (pD) 230.312

MODEL RESULTS

	Estimate	Posterior S.D.	One-Tailed P-Value	95% C.I.		Significance
				Lower 2.5%	Upper 2.5%	
Within Level						
Between Level						
PHYSCON BY						
BASHKR	1.000	0.000	0.000	1.000	1.000	
BASSSSC	0.421	0.643	0.000	0.153	2.126	*
BASTTDC ON						
PHYSCON	0.639	0.717	0.000	0.228	2.835	*
SLOPEPA	13.729	16.935	0.212	-19.928	46.588	
LNVP	-0.663	1.016	0.241	-2.807	1.249	
BASTTDC ON						
PA	0.431	0.662	0.253	-0.830	1.768	
SEX	1.559	0.740	0.015	0.154	3.050	*
YOL	-0.252	0.092	0.003	-0.432	-0.073	*
BASAGEC90	-0.238	0.095	0.006	-0.425	-0.051	*
PA WITH						
SLOPEPA	-0.001	0.002	0.321	-0.005	0.003	
LNVP	0.066	0.078	0.177	-0.073	0.237	
SLOPEPA WITH						
LNVP	-0.002	0.003	0.261	-0.007	0.003	
Means						
PA	3.315	0.063	0.000	3.192	3.438	*
SLOPEPA	-0.016	0.003	0.000	-0.022	-0.010	*

LNVPA	-2.298	0.128	0.000	-2.554	-2.047	*
Intercepts						
BASTTDC	2.827	3.705	0.215	-4.636	10.039	
BASHKR	18.483	0.668	0.000	17.172	19.799	*
BASSSSC	1.330	0.151	0.000	1.032	1.625	*
Variances						
PA	0.329	0.062	0.000	0.229	0.471	*
PHYSCON	6.012	5.653	0.000	0.284	21.351	*
SLOPEPA	0.001	0.000	0.000	0.000	0.001	*
LNVPA	0.352	0.152	0.000	0.138	0.733	*
Residual Variances						
BASTTDC	6.455	1.734	0.000	2.704	9.658	*
BASHKR	43.088	7.511	0.000	29.273	59.083	*
BASSSSC	1.619	0.621	0.000	0.215	2.629	*

STANDARDIZED MODEL RESULTS

STDYX Standardization

	Estimate	Posterior S.D.	One-Tailed P-Value	95% C.I.		Significance
Within-Level Standardized Estimates Averaged Over Clusters						
SLOPEPA PA ON TSBASE	-0.186	0.024	0.000	-0.232	-0.138	*
LNVPA PA	0.831	0.015	0.000	0.802	0.858	*
Between Level						
PHYSCON BY BASHKR	0.348	0.140	0.000	0.076	0.626	*
BASSSSC	0.632	0.171	0.000	0.312	0.960	*
BASTTDC ON PHYSCON	0.480	0.151	0.000	0.200	0.788	*
SLOPEPA	0.102	0.126	0.212	-0.145	0.346	
LNVPA	-0.121	0.169	0.241	-0.443	0.218	
BASTTDC ON PA	0.076	0.115	0.253	-0.142	0.309	
SEX	0.139	0.063	0.015	0.013	0.261	*
YOL	-0.163	0.058	0.003	-0.274	-0.047	*
BASAGEC90	-0.140	0.055	0.006	-0.246	-0.029	*
PA WITH SLOPEPA	-0.068	0.143	0.321	-0.344	0.217	
LNVPA	0.203	0.207	0.177	-0.229	0.576	
SLOPEPA WITH LNVPA	-0.113	0.170	0.261	-0.433	0.230	
Means						
PA	5.782	0.544	0.000	4.817	6.949	*
SLOPEPA	-0.645	0.122	0.000	-0.886	-0.407	*
LNVPA	-3.877	0.920	0.000	-6.105	-2.671	*
Intercepts						
BASTTDC	0.864	1.117	0.215	-1.388	3.006	
BASHKR	2.612	0.201	0.000	2.224	3.011	*
BASSSSC	0.807	0.106	0.000	0.600	1.012	*
Variances						
PA	1.000	0.000	0.000	1.000	1.000	
PHYSCON	1.000	0.000	0.000	1.000	1.000	
SLOPEPA	1.000	0.000	0.000	1.000	1.000	
LNVPA	1.000	0.000	0.000	1.000	1.000	

Residual Variances

BASTTDC	0.609	0.149	0.000	0.248	0.822	*
BASHKR	0.879	0.104	0.000	0.608	0.994	*
BASSSSC	0.601	0.219	0.000	0.079	0.903	*

STDY Standardization

	Estimate	Posterior S.D.	One-Tailed P-Value	95% C.I.		Significance
				Lower 2.5%	Upper 2.5%	

Within-Level Standardized Estimates Averaged Over Clusters

SLOPEPA PA ON TSBASE	-0.031	0.007	0.000	-0.046	-0.018	*
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LNVP PA	0.831	0.015	0.000	0.802	0.858	*
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Between Level

PHYSCON BY BASHKR	0.348	0.140	0.000	0.076	0.626	*
BASSSSC	0.632	0.171	0.000	0.312	0.960	*

BASTTDC ON PHYSCON	0.480	0.151	0.000	0.200	0.788	*
SLOPEPA	0.102	0.126	0.212	-0.145	0.346	
LNVP	-0.121	0.169	0.241	-0.443	0.218	

BASTTDC ON PA	0.076	0.115	0.253	-0.142	0.309	
SEX	0.476	0.218	0.015	0.046	0.896	*
YOL	-0.077	0.027	0.003	-0.129	-0.022	*
BASAGEC90	-0.073	0.029	0.006	-0.128	-0.015	*

PA WITH SLOPEPA	-0.068	0.143	0.321	-0.344	0.217	
LNVP	0.203	0.207	0.177	-0.229	0.576	

SLOPEPA WITH LNVP	-0.113	0.170	0.261	-0.433	0.230	
----------------------	--------	-------	-------	--------	-------	--

Means PA	5.782	0.544	0.000	4.817	6.949	*
SLOPEPA	-0.645	0.122	0.000	-0.886	-0.407	*
LNVP	-3.877	0.920	0.000	-6.105	-2.671	*

Intercepts BASTTDC	0.864	1.117	0.215	-1.388	3.006	
BASHKR	2.612	0.201	0.000	2.224	3.011	*
BASSSSC	0.807	0.106	0.000	0.600	1.012	*

Variances PA	1.000	0.000	0.000	1.000	1.000	
PHYSCON	1.000	0.000	0.000	1.000	1.000	
SLOPEPA	1.000	0.000	0.000	1.000	1.000	
LNVP	1.000	0.000	0.000	1.000	1.000	

Residual Variances BASTTDC	0.609	0.149	0.000	0.248	0.822	*
BASHKR	0.879	0.104	0.000	0.608	0.994	*
BASSSSC	0.601	0.219	0.000	0.079	0.903	*

STD Standardization

	Estimate	Posterior S.D.	One-Tailed P-Value	95% C.I.		Significance
				Lower 2.5%	Upper 2.5%	

Within-Level Standardized Estimates Averaged Over Clusters

SLOPEPA PA ON						
-----------------	--	--	--	--	--	--

TSBASE	-0.012	0.002	0.000	-0.017	-0.007	*
LNPA PA	0.122	0.015	0.000	0.100	0.161	*
Between Level						
PHYSCON BY BASHKR	2.452	1.041	0.000	0.533	4.621	*
BASSSSC	1.045	0.298	0.000	0.502	1.628	*
BASTTDC ON PHYSCON	1.572	0.526	0.000	0.641	2.689	*
SLOPEPA	0.334	0.417	0.212	-0.486	1.151	
LNPA	-0.396	0.559	0.241	-1.476	0.727	
BASTTDC ON PA	0.431	0.662	0.253	-0.830	1.768	
SEX	1.559	0.740	0.015	0.154	3.050	*
YOL	-0.252	0.092	0.003	-0.432	-0.073	*
BASAGEC90	-0.238	0.095	0.006	-0.425	-0.051	*
PA WITH SLOPEPA	-0.039	0.085	0.321	-0.213	0.120	
LNPA	0.115	0.123	0.177	-0.130	0.352	
SLOPEPA WITH LNPA	-0.113	0.170	0.261	-0.433	0.230	
Means						
PA	3.315	0.063	0.000	3.192	3.438	*
SLOPEPA	-0.645	0.122	0.000	-0.886	-0.407	*
LNPA	-3.877	0.920	0.000	-6.105	-2.671	*
Intercepts						
BASTTDC	2.827	3.705	0.215	-4.636	10.039	
BASHKR	18.483	0.668	0.000	17.172	19.799	*
BASSSSC	1.330	0.151	0.000	1.032	1.625	*
Variances						
PA	0.329	0.062	0.000	0.229	0.471	*
PHYSCON	1.000	0.000	0.000	1.000	1.000	
SLOPEPA	1.000	0.000	0.000	1.000	1.000	
LNPA	1.000	0.000	0.000	1.000	1.000	
Residual Variances						
BASTTDC	6.455	1.734	0.000	2.704	9.658	*
BASHKR	43.088	7.511	0.000	29.273	59.083	*
BASSSSC	1.619	0.621	0.000	0.215	2.629	*

R-SQUARE

Within-Level R-Square Averaged Across Clusters

Variable	Estimate	Posterior S.D.	One-Tailed P-Value	95% C.I.	
				Lower 2.5%	Upper 2.5%
PA	0.169	0.015	0.000	0.141	0.198

Between Level

Variable	Estimate	Posterior S.D.	One-Tailed P-Value	95% C.I.	
				Lower 2.5%	Upper 2.5%
BASTTDC	0.391	0.149	0.000	0.178	0.752
BASHKR	0.121	0.104	0.000	0.006	0.392
BASSSSC	0.399	0.219	0.000	0.097	0.921

TECHNICAL 8 OUTPUT

TECHNICAL 8 OUTPUT FOR BAYES ESTIMATION

CHAIN	BSEED	
1	0	
2	285380	

ITERATION	POTENTIAL SCALE REDUCTION	PARAMETER WITH HIGHEST PSR
100	3.674	3
200	1.843	12
300	1.269	12
400	1.447	23
500	1.692	23
600	1.571	3
700	1.579	3
800	1.375	3
900	1.131	20
1000	1.126	17
1100	1.107	17
1200	1.048	23
1300	1.106	23
1400	1.235	23
1500	1.305	23
1600	1.354	23
1700	1.319	23
1800	1.235	7
1900	1.171	23
2000	1.163	20
2100	1.212	3
2200	1.254	3
2300	1.302	3
2400	1.391	3
2500	1.397	3
2600	1.400	3
2700	1.388	3
2800	1.346	3
2900	1.323	3
3000	1.314	3
3100	1.295	3
3200	1.306	3
3300	1.294	3
3400	1.240	3
3500	1.206	3
3600	1.178	3
3700	1.150	3
3800	1.132	3
3900	1.084	3
4000	1.052	3
4100	1.039	3
4200	1.036	3
4300	1.025	3
4400	1.021	7
4500	1.032	23
4600	1.037	23
4700	1.046	23
4800	1.055	23
4900	1.061	23
5000	1.060	23
5100	1.054	23
5200	1.055	23
5300	1.042	23
5400	1.037	10
5500	1.035	10
5600	1.037	10
5700	1.033	10
5800	1.033	10
5900	1.031	10
6000	1.030	10
6100	1.029	10
6200	1.027	10
6300	1.027	10
6400	1.034	3
6500	1.045	3

6600	1.059	3
6700	1.077	3
6800	1.078	3
6900	1.079	3
7000	1.079	3
7100	1.077	3
7200	1.073	3
7300	1.075	3
7400	1.076	3
7500	1.074	3
7600	1.074	3
7700	1.086	3
7800	1.101	3
7900	1.050	3
8000	1.051	3
8100	1.063	3
8200	1.073	3
8300	1.075	3
8400	1.077	3
8500	1.082	17
8600	1.089	17
8700	1.104	17
8800	1.115	17
8900	1.126	17
9000	1.141	17
9100	1.158	17
9200	1.157	17
9300	1.165	17
9400	1.159	17
9500	1.123	17
9600	1.114	17
9700	1.117	17
9800	1.121	17
9900	1.107	17
10000	1.087	3
10100	1.084	3
10200	1.082	3
10300	1.080	3
10400	1.079	3
10500	1.080	17
10600	1.081	17
10700	1.079	17
10800	1.081	17
10900	1.082	17
11000	1.083	17
11100	1.085	17
11200	1.078	17
11300	1.073	17
11400	1.076	17
11500	1.071	17
11600	1.069	3
11700	1.068	3
11800	1.067	3
11900	1.066	3
12000	1.066	3
12100	1.066	3
12200	1.065	3
12300	1.065	3
12400	1.065	3
12500	1.065	3
12600	1.064	3
12700	1.062	3
12800	1.061	3
12900	1.058	3
13000	1.053	3
13100	1.051	3
13200	1.049	3
13300	1.048	3
13400	1.045	3
13500	1.044	3
13600	1.043	3
13700	1.042	3
13800	1.042	3
13900	1.042	3

14000	1.042	10
14100	1.042	10
14200	1.042	10
14300	1.042	3
14400	1.041	10
14500	1.041	10
14600	1.041	10
14700	1.041	10
14800	1.040	10
14900	1.040	10
15000	1.040	10
15100	1.039	10
15200	1.039	10
15300	1.039	10
15400	1.038	10
15500	1.037	10
15600	1.035	10
15700	1.033	10
15800	1.030	10
15900	1.027	3
16000	1.028	3
16100	1.026	3
16200	1.029	3
16300	1.028	3
16400	1.026	3
16500	1.024	3
16600	1.022	3
16700	1.020	3
16800	1.022	20
16900	1.024	20
17000	1.024	20
17100	1.020	20
17200	1.017	20
17300	1.015	20
17400	1.014	20
17500	1.013	20
17600	1.012	20
17700	1.012	20
17800	1.012	20
17900	1.015	20
18000	1.018	20
18100	1.018	20
18200	1.018	20
18300	1.018	20
18400	1.020	20
18500	1.020	20
18600	1.020	20
18700	1.022	20
18800	1.023	20
18900	1.025	20
19000	1.027	20
19100	1.031	20
19200	1.030	20
19300	1.030	20
19400	1.034	20
19500	1.036	20
19600	1.042	20
19700	1.048	20
19800	1.052	20
19900	1.057	20
20000	1.061	20
20100	1.063	20
20200	1.065	20
20300	1.066	20
20400	1.065	20
20500	1.063	20
20600	1.059	20
20700	1.059	20
20800	1.054	20
20900	1.052	20
21000	1.052	20
21100	1.053	20
21200	1.048	20
21300	1.044	20

21400	1.046	20
21500	1.049	20
21600	1.049	20
21700	1.051	20
21800	1.052	20
21900	1.052	20
22000	1.048	20
22100	1.046	20
22200	1.039	20
22300	1.038	20
22400	1.039	20
22500	1.038	20
22600	1.037	20
22700	1.036	20
22800	1.035	20
22900	1.034	20
23000	1.033	20
23100	1.033	20
23200	1.032	20
23300	1.032	20
23400	1.033	20
23500	1.034	20
23600	1.034	20
23700	1.031	20
23800	1.030	20
23900	1.029	20
24000	1.030	3
24100	1.033	3
24200	1.034	3
24300	1.034	3
24400	1.034	10
24500	1.035	10
24600	1.036	3
24700	1.037	3
24800	1.037	3
24900	1.037	3
25000	1.038	20
25100	1.038	20
25200	1.038	17
25300	1.039	17
25400	1.043	17
25500	1.046	17
25600	1.046	17
25700	1.044	17
25800	1.044	20
25900	1.044	20
26000	1.044	20
26100	1.042	20
26200	1.043	20
26300	1.044	20
26400	1.046	20
26500	1.046	20
26600	1.048	20
26700	1.049	20
26800	1.047	20
26900	1.048	20
27000	1.050	20
27100	1.052	20
27200	1.053	20
27300	1.053	20
27400	1.050	20
27500	1.049	20
27600	1.051	20
27700	1.050	20
27800	1.048	20
27900	1.043	20
28000	1.040	20
28100	1.038	20
28200	1.035	20
28300	1.038	20
28400	1.041	20
28500	1.042	20
28600	1.042	20
28700	1.043	20

28800	1.045	20
28900	1.043	20
29000	1.041	20
29100	1.042	20
29200	1.044	20
29300	1.042	20
29400	1.042	20
29500	1.044	20
29600	1.045	20
29700	1.045	20
29800	1.043	20
29900	1.044	20
30000	1.041	20
30100	1.037	20
30200	1.036	20
30300	1.037	20
30400	1.036	20
30500	1.037	20
30600	1.035	20
30700	1.032	20
30800	1.031	20
30900	1.032	20
31000	1.032	20
31100	1.032	20
31200	1.033	20
31300	1.033	20
31400	1.032	20
31500	1.031	20
31600	1.030	20
31700	1.028	20
31800	1.028	20
31900	1.026	20
32000	1.022	20
32100	1.022	10
32200	1.022	10
32300	1.023	10
32400	1.023	10
32500	1.023	10
32600	1.023	10
32700	1.023	10
32800	1.024	10
32900	1.024	10
33000	1.024	10
33100	1.023	10
33200	1.022	10
33300	1.019	10
33400	1.019	10
33500	1.020	10
33600	1.021	10
33700	1.021	10
33800	1.022	10
33900	1.021	10
34000	1.021	10
34100	1.020	10
34200	1.019	10
34300	1.019	10
34400	1.019	10
34500	1.018	10
34600	1.018	10
34700	1.018	10
34800	1.018	10
34900	1.018	10
35000	1.019	10
35100	1.020	10
35200	1.019	10
35300	1.020	10
35400	1.021	10
35500	1.021	10
35600	1.021	10
35700	1.021	10
35800	1.021	10
35900	1.020	10
36000	1.020	10
36100	1.020	10

36200	1.020	10
36300	1.020	10
36400	1.020	10
36500	1.019	10
36600	1.019	10
36700	1.018	10
36800	1.017	10
36900	1.017	10
37000	1.017	10
37100	1.017	10
37200	1.017	10
37300	1.016	10
37400	1.016	10
37500	1.016	10
37600	1.016	10
37700	1.016	10
37800	1.016	10
37900	1.015	10
38000	1.015	10
38100	1.015	10
38200	1.016	10
38300	1.016	10
38400	1.018	10
38500	1.018	10
38600	1.017	10
38700	1.017	10
38800	1.018	10
38900	1.019	10
39000	1.019	10
39100	1.019	10
39200	1.019	10
39300	1.019	10
39400	1.019	10
39500	1.018	10
39600	1.018	10
39700	1.018	10
39800	1.018	10
39900	1.018	10
40000	1.019	10
40100	1.020	10
40200	1.020	10
40300	1.020	10
40400	1.020	10
40500	1.020	10
40600	1.020	10
40700	1.020	10
40800	1.019	10
40900	1.019	10
41000	1.019	10
41100	1.019	10
41200	1.019	10
41300	1.019	10
41400	1.019	10
41500	1.019	10
41600	1.019	10
41700	1.017	10
41800	1.014	10
41900	1.012	10
42000	1.010	10
42100	1.009	10
42200	1.007	10
42300	1.006	5
42400	1.006	21
42500	1.006	21
42600	1.005	21
42700	1.006	21
42800	1.006	21
42900	1.005	21
43000	1.005	21
43100	1.005	21
43200	1.006	21
43300	1.005	21
43400	1.005	21
43500	1.007	3

43600	1.008	3
43700	1.010	3
43800	1.010	3
43900	1.008	3
44000	1.007	3
44100	1.007	3
44200	1.007	3
44300	1.007	3
44400	1.006	3
44500	1.006	3
44600	1.006	3
44700	1.005	3
44800	1.005	3
44900	1.005	3
45000	1.005	3
45100	1.005	3
45200	1.005	3
45300	1.005	3
45400	1.004	3
45500	1.005	3
45600	1.005	3
45700	1.005	3
45800	1.005	3
45900	1.005	3
46000	1.005	3
46100	1.005	3
46200	1.004	3
46300	1.004	3
46400	1.004	3
46500	1.004	3
46600	1.004	3
46700	1.004	3
46800	1.005	3
46900	1.005	3
47000	1.005	3
47100	1.005	3
47200	1.005	3
47300	1.005	3
47400	1.005	3
47500	1.005	3
47600	1.005	3
47700	1.005	3
47800	1.006	3
47900	1.006	3
48000	1.007	3
48100	1.007	3
48200	1.008	3
48300	1.008	3
48400	1.008	3
48500	1.008	3
48600	1.008	3
48700	1.008	3
48800	1.008	3
48900	1.007	3
49000	1.006	3
49100	1.006	3
49200	1.004	3
49300	1.004	3
49400	1.004	3
49500	1.004	3
49600	1.004	3
49700	1.004	3
49800	1.003	3
49900	1.003	3
50000	1.003	3
50100	1.002	7

TECHNICAL 5 OUTPUT

DIAGRAM INFORMATION

Mplus diagrams are currently not available for multilevel analysis.

No diagram output was produced.

Beginning Time: 12:16:40
Ending Time: 12:25:09
Elapsed Time: 00:08:29

MUTHEN & MUTHEN
3463 Stoner Ave.
Los Angeles, CA 90066

Tel: (310) 391-9971
Fax: (310) 391-8971
Web: www.StatModel.com
Support: Support@StatModel.com

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Mplus Output Single Multilevel SEM – Negative Affect:

```

Mplus VERSION 8.5
MUTHEN & MUTHEN
10/15/2021 9:59 PM

INPUT INSTRUCTIONS

TITLE:

DATA: FILE = mpltry6.dat;

VARIABLE:
  NAMES = pno wave sex yol verst nopart
          basagec90 agec90 tims tsbase
          ttd ttdcens basettd basttdc
          aut pil ema sac dep
          pa na swls adlinv hyp
          visus sfenerg sfsofunc sfpain sfgen sfchang
          anges anget akzet mortinv mortperc
          basadlinv basvisus bashkr bassssc
          bassfen bassfso bassfpain bassfgen bassfcha
          hkr sl sssco;
  USEVARIABLES = na tsbase basttdc bashkr bassssc basagec90 sex yol;
  CLUSTER = PNO;
  MISSING = .;
  WITHIN = tsbase;
  BETWEEN = basttdc bashkr bassssc sex yol basagec90;

DEFINE:

  center sex yol (grandmean);

ANALYSIS:
  type = twolevel random;
  estimator = BAYES;
  chains = 2;
  biterations=1500000;
  BCONVERGENCE = 0.00125;

MODEL:

  %WITHIN%

  slopena | na ON tsbase;
  lnvna | na;

  %BETWEEN%

  physcon BY bashkr@1
            bassssc*0.44;

  basttdc ON na*-1.3
            sex*1.6
            yol*-0.27
            basagec90*-0.25
            physcon*0.63
            slopena*2.5
            lnvna*2.2;

  na WITH slopena*-0.004;
  na WITH lnvna*0.166;
  slopena WITH lnvna*-0.0004;

  [ basttdc* ];
  [ bashkr* ];
  [ bassssc* ];
  [ na*2.163 ] (m7);
  [ slopena*-0.009 ] (ms7);
  [ lnvna*-2.403 ] (mv7);

```

```
basttdc*6.65222;
bashkr*;
bassssc*;
na*0.39314;
physcon*6.83504;
slopena*0.00055;
lnvna*0.22033;
```

```
MODEL PRIORS:
m7 ~ N(2.12,0.102);
ms7 ~ N(-0.029,0.00017);
```

```
OUTPUT:
standardized tech5 tech8 tech16;
```

```
*** WARNING in VARIABLE command
Note that only the first 8 characters of variable names are used in the output.
Shorten variable names to avoid any confusion.
*** WARNING in MODEL command
In the MODEL command, the following variable is an x-variable on the BETWEEN
level and a y-variable on the WITHIN level. This variable will be treated
as a y-variable on both levels: NA
*** WARNING
One or more individual-level variables have no variation within a
cluster for the following clusters.

Variable Cluster IDs with no within-cluster variation

NA 10130 10144 10313 11240 11741 15018 16142 16798 11371 11295

3 WARNING(S) FOUND IN THE INPUT INSTRUCTIONS
```

SUMMARY OF ANALYSIS

Number of groups	1
Number of observations	682
Number of dependent variables	4
Number of independent variables	4
Number of continuous latent variables	3

Observed dependent variables

Continuous			
BASTTDC	BASHKR	BASSSSC	NA

Observed independent variables

TSBASE	BASAGEC9	SEX	YOL
--------	----------	-----	-----

Continuous latent variables

PHYSCON	SLOPENa	LNvNA
---------	---------	-------

Variables with special functions

Cluster variable	PNO
------------------	-----

Within variables
TSBASE

Between variables

BASTTDC	BASHKR	BASSSSC	BASAGEC9	SEX	YOL
---------	--------	---------	----------	-----	-----

Centering (GRANDMEAN)

SEX	YOL
-----	-----

```

Estimator                                BAYES
Specifications for Bayesian Estimation
Point estimate                           MEDIAN
Number of Markov chain Monte Carlo (MCMC) chains      2
Random seed for the first chain                    0
Starting value information                        UNPERTURBED
Algorithm used for Markov chain Monte Carlo          GIBBS(PX1)
Convergence criterion                            0.125D-02
Maximum number of iterations                     1500000
K-th iteration used for thinning                  1

Input data file(s)
mpltry6.dat
Input data format  FREE
    
```

SUMMARY OF DATA

```

Number of clusters                        124

Size (s)    Cluster ID with Size s
1           10026 10130 10144 10313 10473 10558 10567 10637 10663
           10893 10901 10907 10911 10939 10969 11157 11240 11294
           11297 11741 15018 15177 15241 15319 15564 16142 16423
           16610 16669 16798 17542 18507 18650
2           15239 11258 10181 15510 10615 11341 16303 11371 16510
           11384 11485 11028 16862 10211 17780 18004 18252 15175
           10228
3           11573 11295 17130 11100 17745 10340 10460 10461 10210
           11501
4           10904 11457 10434 11493 10811 17593
5           15424 10666 12411 11343 11005
6           10159 15092 15121 15426 11593 11163 10139 16220 19067
7           10354 11230 10894 10724 10470
8           10252 10528 11038 10033 11336 11253
9           15623 11055
10          12037 10167 17197 15009 19500
11          11233 10444 15714 10533
12          11079 10577 15378 12714 10986 10428
13          11420 11002
14          11450
15          10108 10906 10551 15231 10902
16          15141 10940 16103 15472 11528 11378
    
```

COVARIANCE COVERAGE OF DATA

Minimum covariance coverage value 0.100

Number of missing data patterns 7

PROPORTION OF DATA PRESENT

	Covariance Coverage				
	BASTTDC	BASHKR	BASSSSC	NA	TSBASE
BASTTDC	0.944				
BASHKR	0.912	0.968			
BASSSSC	0.935	0.968	0.991		
NA	0.911	0.947	0.960	0.966	
TSBASE	0.944	0.968	0.991	0.966	1.000
BASAGEC9	0.944	0.968	0.991	0.966	1.000
SEX	0.944	0.968	0.991	0.966	1.000
YOL	0.944	0.968	0.991	0.966	1.000

	Covariance Coverage		
	BASAGEC9	SEX	YOL
BASAGEC9	1.000		

SEX	1.000	1.000	
YOL	1.000	1.000	1.000

UNIVARIATE SAMPLE STATISTICS

UNIVARIATE HIGHER-ORDER MOMENT DESCRIPTIVE STATISTICS

Variable/ Sample Size	Mean/ Variance	Skewness/ Kurtosis	Minimum/ Maximum	% with Min/Max	20%/60%	Percentiles 40%/80%	Median
BASTTDC	5.519	0.456	0.250	0.83%	2.250	4.250	5.083
120.000	10.267	-0.614	12.667	1.67%	6.083	8.250	
BASHKR	18.519	1.282	5.330	0.89%	12.330	16.500	17.750
112.000	48.308	2.780	49.000	0.89%	18.670	23.330	
BASSSSC	1.333	0.640	0.000	53.33%	0.000	0.000	0.000
120.000	2.606	-1.294	4.000	17.50%	1.000	3.000	
NA	2.046	0.407	1.000	3.19%	1.500	1.800	2.000
659.000	0.369	-0.249	4.100	0.15%	2.200	2.600	
TSBASE	36.711	0.258	0.000	3.08%	13.000	27.000	36.000
682.000	594.554	-0.917	91.000	0.59%	41.000	60.000	
BASAGEC90	0.106	0.407	-3.917	0.81%	-2.833	-1.250	-0.792
124.000	8.313	-1.090	6.417	0.81%	0.500	3.083	
SEX	0.000	-1.426	-0.790	20.97%	-0.790	0.210	0.210
124.000	0.166	0.035	0.210	79.03%	0.210	0.210	
YOL	0.000	0.868	-3.387	20.97%	-3.387	-1.387	-1.387
124.000	8.737	-0.315	5.613	17.74%	0.613	0.613	

THE MODEL ESTIMATION TERMINATED NORMALLY

USE THE FBITERATIONS OPTION TO INCREASE THE NUMBER OF ITERATIONS BY A FACTOR OF AT LEAST TWO TO CHECK CONVERGENCE AND THAT THE PSR VALUE DOES NOT INCREASE.

MODEL FIT INFORMATION

Number of Free Parameters	24
Information Criteria	
Deviance (DIC)	2290.946
Estimated Number of Parameters (pD)	200.358

MODEL RESULTS

	Estimate	Posterior S.D.	One-Tailed P-Value	95% C.I. Lower 2.5%	Upper 2.5%	Significance
Within Level						
Between Level						
PHYSCON BY						
BASHKR	1.000	0.000	0.000	1.000	1.000	
BASSSSC	0.467	0.616	0.010	0.154	1.567	*
BASTTDC ON						
PHYSCON	0.627	0.914	0.010	0.233	1.984	*
SLOPENA	2.707	18.650	0.442	-33.928	39.217	
LNVNA	2.042	1.348	0.044	-0.319	4.992	
BASTTDC ON						
NA	-1.330	1.042	0.072	-3.657	0.444	
SEX	1.529	0.736	0.017	0.123	3.026	*
YOL	-0.272	0.092	0.002	-0.452	-0.092	*
BASAGEC90	-0.244	0.095	0.005	-0.430	-0.058	*
NA WITH						

SLOPENA	-0.003	0.002	0.044	-0.007	0.000	
LNVNA	0.187	0.074	0.003	0.056	0.348	*
SLOPENA WITH LNVNA	-0.001	0.002	0.360	-0.005	0.004	
Means						
NA	2.111	0.061	0.000	1.993	2.233	*
SLOPENA	-0.002	0.003	0.218	-0.008	0.003	
LNVNA	-2.581	0.117	0.000	-2.819	-2.362	*
Intercepts						
BASTTDC	13.781	5.337	0.002	4.469	25.463	*
BASHKR	18.484	0.673	0.000	17.157	19.804	*
BASSSSC	1.328	0.150	0.000	1.032	1.624	*
Variances						
NA	0.349	0.062	0.000	0.250	0.491	*
PHYSCON	6.008	5.563	0.000	0.537	21.183	*
SLOPENA	0.000	0.000	0.000	0.000	0.001	*
LNVNA	0.347	0.144	0.000	0.144	0.706	*
Residual Variances						
BASTTDC	5.884	1.553	0.000	3.041	9.120	*
BASHKR	43.421	7.425	0.000	30.021	59.330	*
BASSSSC	1.366	0.620	0.000	0.112	2.446	*

STANDARDIZED MODEL RESULTS

STDYX Standardization

	Estimate	Posterior S.D.	One-Tailed P-Value	95% C.I.		Significance
Within-Level Standardized Estimates Averaged Over Clusters						
SLOPENA NA ON TSBASE	-0.009	0.025	0.350	-0.061	0.039	
LNVNA NA	0.852	0.014	0.000	0.823	0.879	*
Between Level						
PHYSCON BY BASHKR	0.347	0.135	0.000	0.104	0.620	*
BASSSSC	0.701	0.205	0.010	0.351	0.979	*
BASTTDC ON PHYSCON	0.467	0.161	0.010	0.215	0.734	*
SLOPENA	0.018	0.123	0.442	-0.225	0.257	
LNVNA	0.367	0.219	0.044	-0.054	0.808	
BASTTDC ON NA	-0.238	0.186	0.072	-0.652	0.078	
SEX	0.135	0.063	0.017	0.011	0.258	*
YOL	-0.175	0.057	0.002	-0.284	-0.059	*
BASAGEC90	-0.142	0.054	0.005	-0.246	-0.033	*
NA WITH SLOPENA	-0.239	0.134	0.044	-0.484	0.036	
LNVNA	0.553	0.157	0.003	0.185	0.801	*
SLOPENA WITH LNVNA	-0.059	0.158	0.360	-0.361	0.255	
Means						
NA	3.576	0.315	0.000	2.995	4.229	*
SLOPENA	-0.105	0.134	0.218	-0.367	0.158	
LNVNA	-4.389	0.912	0.000	-6.662	-3.099	*
Intercepts						

BASTTDC	4.171	1.615	0.002	1.334	7.687	*
BASHKR	2.605	0.202	0.000	2.215	3.005	*
BASSSSC	0.807	0.106	0.000	0.601	1.015	*
Variances						
NA	1.000	0.000	0.000	1.000	1.000	
PHYSCON	1.000	0.000	0.000	1.000	1.000	
SLOPENA	1.000	0.000	0.000	1.000	1.000	
LNVNA	1.000	0.000	0.000	1.000	1.000	
Residual Variances						
BASTTDC	0.542	0.130	0.000	0.279	0.780	*
BASHKR	0.880	0.101	0.000	0.616	0.989	*
BASSSSC	0.507	0.222	0.000	0.042	0.855	*
STDY Standardization						
	Estimate	Posterior S.D.	One-Tailed P-Value	95% C.I. Lower 2.5% Upper 2.5%		Significance
Within-Level Standardized Estimates Averaged Over Clusters						
SLOPENA NA ON TSBASE	-0.003	0.009	0.359	-0.021	0.014	
LNVNA NA	0.852	0.014	0.000	0.823	0.879	*
Between Level						
PHYSCON BY BASHKR	0.347	0.135	0.000	0.104	0.620	*
BASSSSC	0.701	0.205	0.010	0.351	0.979	*
BASTTDC ON PHYSCON	0.467	0.161	0.010	0.215	0.734	*
SLOPENA	0.018	0.123	0.442	-0.225	0.257	
LNVNA	0.367	0.219	0.044	-0.054	0.808	
BASTTDC ON NA	-0.238	0.186	0.072	-0.652	0.078	
SEX	0.464	0.216	0.017	0.037	0.885	*
YOL	-0.082	0.027	0.002	-0.134	-0.028	*
BASAGEC90	-0.074	0.028	0.005	-0.128	-0.017	*
NA WITH SLOPENA	-0.239	0.134	0.044	-0.484	0.036	
LNVNA	0.553	0.157	0.003	0.185	0.801	*
SLOPENA WITH LNVNA	-0.059	0.158	0.360	-0.361	0.255	
Means						
NA	3.576	0.315	0.000	2.995	4.229	*
SLOPENA	-0.105	0.134	0.218	-0.367	0.158	
LNVNA	-4.389	0.912	0.000	-6.662	-3.099	*
Intercepts						
BASTTDC	4.171	1.615	0.002	1.334	7.687	*
BASHKR	2.605	0.202	0.000	2.215	3.005	*
BASSSSC	0.807	0.106	0.000	0.601	1.015	*
Variances						
NA	1.000	0.000	0.000	1.000	1.000	
PHYSCON	1.000	0.000	0.000	1.000	1.000	
SLOPENA	1.000	0.000	0.000	1.000	1.000	
LNVNA	1.000	0.000	0.000	1.000	1.000	
Residual Variances						
BASTTDC	0.542	0.130	0.000	0.279	0.780	*
BASHKR	0.880	0.101	0.000	0.616	0.989	*
BASSSSC	0.507	0.222	0.000	0.042	0.855	*

STD Standardization

	Estimate	Posterior S.D.	One-Tailed P-Value	95% C.I.		Significance
Within-Level Standardized Estimates Averaged Over Clusters						
SLOPENA NA ON TSBASE	-0.001	0.002	0.282	-0.006	0.003	
LNVNA NA	0.086	0.008	0.000	0.074	0.105	*
Between Level						
PHYSCON BY BASHKR	2.451	1.009	0.000	0.733	4.603	*
BASSSSC	1.156	0.353	0.010	0.562	1.674	*
BASTTDC ON PHYSCON	1.542	0.556	0.010	0.697	2.526	*
SLOPENA	0.059	0.412	0.442	-0.750	0.867	
LNVNA	1.212	0.732	0.044	-0.181	2.700	
BASTTDC ON NA	-1.330	1.042	0.072	-3.657	0.444	
SEX	1.529	0.736	0.017	0.123	3.026	*
YOL	-0.272	0.092	0.002	-0.452	-0.092	*
BASAGEC90	-0.244	0.095	0.005	-0.430	-0.058	*
NA WITH SLOPENA	-0.140	0.085	0.044	-0.313	0.020	
LNVNA	0.324	0.100	0.003	0.108	0.504	*
SLOPENA WITH LNVNA	-0.059	0.158	0.360	-0.361	0.255	
Means						
NA	2.111	0.061	0.000	1.993	2.233	*
SLOPENA	-0.105	0.134	0.218	-0.367	0.158	
LNVNA	-4.389	0.912	0.000	-6.662	-3.099	*
Intercepts						
BASTTDC	13.781	5.337	0.002	4.469	25.463	*
BASHKR	18.484	0.673	0.000	17.157	19.804	*
BASSSSC	1.328	0.150	0.000	1.032	1.624	*
Variances						
NA	0.349	0.062	0.000	0.250	0.491	*
PHYSCON	1.000	0.000	0.000	1.000	1.000	
SLOPENA	1.000	0.000	0.000	1.000	1.000	
LNVNA	1.000	0.000	0.000	1.000	1.000	
Residual Variances						
BASTTDC	5.884	1.553	0.000	3.041	9.120	*
BASHKR	43.421	7.425	0.000	30.021	59.330	*
BASSSSC	1.366	0.620	0.000	0.112	2.446	*

R-SQUARE

Within-Level R-Square Averaged Across Clusters

Variable	Estimate	Posterior S.D.	One-Tailed P-Value	95% C.I.	
NA	0.148	0.014	0.000	0.121	0.177

Between Level

Variable	Estimate	Posterior S.D.	One-Tailed P-Value	95% C.I.	
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BASTTDC	0.458	0.130	0.000	0.220	0.721
BASHKR	0.120	0.101	0.000	0.011	0.384
BASSSSC	0.493	0.222	0.000	0.145	0.958

TECHNICAL 8 OUTPUT

TECHNICAL 8 OUTPUT FOR BAYES ESTIMATION

CHAIN BSEED
1 0
2 285380

ITERATION	POTENTIAL SCALE REDUCTION	PARAMETER WITH HIGHEST PSR
100	2.794	23
200	1.748	8
300	1.451	20
400	1.407	17
500	1.584	10
600	1.553	10
700	1.512	10
800	1.317	17
900	1.253	17
1000	1.194	7
1100	1.189	7
1200	1.103	7
1300	1.101	7
1400	1.132	3
1500	1.242	5
1600	1.244	5
1700	1.265	5
1800	1.222	5
1900	1.242	5
2000	1.218	5
2100	1.158	5
2200	1.124	5
2300	1.156	5
2400	1.158	5
2500	1.124	5
2600	1.089	12
2700	1.050	5
2800	1.023	5
2900	1.021	10
3000	1.034	20
3100	1.043	20
3200	1.047	7
3300	1.033	7
3400	1.028	7
3500	1.027	7
3600	1.025	7
3700	1.027	7
3800	1.027	7
3900	1.027	7
4000	1.022	7
4100	1.012	10
4200	1.026	10
4300	1.030	3
4400	1.039	3
4500	1.047	3
4600	1.050	3
4700	1.045	3
4800	1.047	3
4900	1.049	3
5000	1.042	3
5100	1.038	3
5200	1.038	3
5300	1.040	10
5400	1.040	10
5500	1.021	10
5600	1.013	7

5700	1.013	7
5800	1.021	3
5900	1.038	3
6000	1.048	3
6100	1.056	3
6200	1.057	3
6300	1.058	3
6400	1.059	3
6500	1.060	3
6600	1.060	3
6700	1.058	3
6800	1.059	3
6900	1.059	3
7000	1.061	3
7100	1.052	3
7200	1.037	3
7300	1.027	3
7400	1.030	3
7500	1.033	3
7600	1.038	3
7700	1.038	3
7800	1.035	3
7900	1.035	3
8000	1.041	3
8100	1.053	3
8200	1.064	3
8300	1.066	3
8400	1.068	3
8500	1.065	3
8600	1.068	3
8700	1.068	3
8800	1.067	3
8900	1.067	3
9000	1.069	3
9100	1.068	3
9200	1.067	3
9300	1.065	3
9400	1.065	3
9500	1.066	3
9600	1.064	3
9700	1.063	3
9800	1.055	3
9900	1.046	3
10000	1.039	3
10100	1.037	3
10200	1.035	3
10300	1.034	3
10400	1.035	20
10500	1.038	20
10600	1.038	20
10700	1.033	3
10800	1.036	3
10900	1.034	3
11000	1.032	3
11100	1.029	3
11200	1.022	3
11300	1.015	3
11400	1.013	8
11500	1.015	8
11600	1.019	8
11700	1.020	8
11800	1.017	8
11900	1.016	8
12000	1.019	13
12100	1.016	13
12200	1.018	7
12300	1.019	7
12400	1.022	7
12500	1.025	7
12600	1.024	7
12700	1.023	7
12800	1.023	7
12900	1.021	7
13000	1.019	7

13100	1.017	7
13200	1.014	7
13300	1.010	7
13400	1.009	7
13500	1.009	20
13600	1.011	20
13700	1.015	20
13800	1.017	20
13900	1.016	20
14000	1.013	20
14100	1.011	20
14200	1.011	20
14300	1.010	20
14400	1.012	20
14500	1.013	20
14600	1.019	20
14700	1.021	20
14800	1.018	20
14900	1.019	20
15000	1.018	20
15100	1.020	20
15200	1.021	20
15300	1.022	20
15400	1.023	20
15500	1.023	20
15600	1.021	20
15700	1.017	20
15800	1.014	20
15900	1.014	20
16000	1.014	20
16100	1.015	20
16200	1.016	20
16300	1.016	20
16400	1.014	20
16500	1.012	20
16600	1.010	20
16700	1.011	20
16800	1.011	20
16900	1.011	20
17000	1.011	20
17100	1.010	20
17200	1.011	20
17300	1.013	17
17400	1.014	20
17500	1.014	20
17600	1.013	20
17700	1.013	20
17800	1.013	20
17900	1.013	20
18000	1.019	10
18100	1.022	10
18200	1.027	10
18300	1.032	10
18400	1.037	10
18500	1.042	10
18600	1.047	10
18700	1.045	10
18800	1.044	3
18900	1.040	10
19000	1.028	3
19100	1.030	20
19200	1.032	20
19300	1.035	20
19400	1.035	7
19500	1.036	20
19600	1.036	20
19700	1.038	20
19800	1.038	20
19900	1.038	20
20000	1.041	3
20100	1.045	3
20200	1.049	3
20300	1.051	3
20400	1.052	3

20500	1.052	3
20600	1.052	3
20700	1.057	20
20800	1.060	20
20900	1.061	20
21000	1.060	20
21100	1.064	20
21200	1.064	20
21300	1.063	20
21400	1.060	20
21500	1.055	3
21600	1.060	3
21700	1.063	3
21800	1.064	3
21900	1.064	3
22000	1.064	3
22100	1.064	3
22200	1.066	17
22300	1.072	17
22400	1.077	17
22500	1.080	17
22600	1.083	17
22700	1.085	17
22800	1.087	17
22900	1.092	17
23000	1.095	17
23100	1.101	17
23200	1.103	17
23300	1.105	17
23400	1.105	17
23500	1.103	17
23600	1.098	17
23700	1.098	17
23800	1.099	17
23900	1.107	17
24000	1.108	17
24100	1.102	17
24200	1.095	17
24300	1.092	17
24400	1.091	17
24500	1.085	17
24600	1.085	17
24700	1.080	17
24800	1.076	17
24900	1.077	17
25000	1.079	17
25100	1.083	17
25200	1.087	17
25300	1.087	17
25400	1.085	17
25500	1.085	17
25600	1.087	17
25700	1.089	17
25800	1.096	17
25900	1.102	17
26000	1.107	17
26100	1.105	17
26200	1.104	17
26300	1.099	17
26400	1.090	17
26500	1.086	17
26600	1.085	17
26700	1.082	17
26800	1.082	17
26900	1.083	17
27000	1.081	17
27100	1.080	17
27200	1.080	17
27300	1.080	17
27400	1.077	17
27500	1.074	17
27600	1.074	17
27700	1.073	17
27800	1.070	17

27900	1.066	17
28000	1.065	17
28100	1.062	17
28200	1.061	17
28300	1.059	17
28400	1.056	17
28500	1.057	17
28600	1.058	17
28700	1.057	17
28800	1.055	17
28900	1.054	17
29000	1.052	17
29100	1.048	3
29200	1.048	3
29300	1.048	3
29400	1.047	3
29500	1.047	3
29600	1.047	3
29700	1.047	3
29800	1.047	3
29900	1.047	3
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30100	1.046	3
30200	1.046	3
30300	1.046	3
30400	1.046	3
30500	1.046	3
30600	1.046	3
30700	1.045	3
30800	1.045	3
30900	1.045	3
31000	1.045	3
31100	1.045	3
31200	1.045	3
31300	1.044	3
31400	1.045	17
31500	1.045	17
31600	1.044	3
31700	1.045	17
31800	1.044	3
31900	1.044	3
32000	1.043	3
32100	1.043	3
32200	1.043	3
32300	1.043	3
32400	1.043	3
32500	1.043	3
32600	1.043	3
32700	1.042	3
32800	1.042	3
32900	1.042	3
33000	1.042	3
33100	1.042	3
33200	1.042	3
33300	1.042	3
33400	1.041	3
33500	1.041	3
33600	1.041	3
33700	1.041	3
33800	1.041	3
33900	1.041	3
34000	1.041	3
34100	1.041	3
34200	1.040	3
34300	1.040	3
34400	1.040	3
34500	1.040	3
34600	1.040	3
34700	1.040	3
34800	1.040	3
34900	1.040	3
35000	1.039	3
35100	1.039	3
35200	1.039	3

35300	1.039	3
35400	1.039	3
35500	1.039	3
35600	1.039	3
35700	1.039	3
35800	1.038	3
35900	1.038	3
36000	1.038	3
36100	1.038	3
36200	1.038	3
36300	1.038	3
36400	1.038	3
36500	1.037	3
36600	1.037	3
36700	1.037	3
36800	1.037	3
36900	1.037	3
37000	1.037	3
37100	1.036	3
37200	1.036	3
37300	1.036	3
37400	1.036	3
37500	1.036	3
37600	1.036	3
37700	1.035	3
37800	1.035	3
37900	1.035	3
38000	1.034	3
38100	1.034	3
38200	1.033	3
38300	1.032	3
38400	1.032	3
38500	1.031	3
38600	1.030	3
38700	1.028	3
38800	1.027	3
38900	1.025	3
39000	1.024	3
39100	1.023	3
39200	1.022	3
39300	1.020	3
39400	1.019	3
39500	1.019	3
39600	1.020	3
39700	1.021	3
39800	1.021	3
39900	1.020	3
40000	1.021	10
40100	1.020	10
40200	1.019	3
40300	1.018	10
40400	1.017	10
40500	1.015	10
40600	1.015	10
40700	1.014	10
40800	1.013	3
40900	1.013	3
41000	1.013	3
41100	1.012	3
41200	1.012	3
41300	1.011	3
41400	1.011	3
41500	1.011	3
41600	1.010	3
41700	1.010	3
41800	1.010	3
41900	1.010	3
42000	1.010	3
42100	1.010	3
42200	1.009	3
42300	1.009	3
42400	1.009	3
42500	1.009	3
42600	1.009	3

42700	1.009	3
42800	1.008	3
42900	1.008	17
43000	1.008	17
43100	1.008	17
43200	1.008	17
43300	1.008	17
43400	1.009	17
43500	1.009	3
43600	1.009	17
43700	1.010	17
43800	1.011	17
43900	1.011	17
44000	1.011	17
44100	1.010	17
44200	1.009	17
44300	1.009	17
44400	1.009	17
44500	1.009	17
44600	1.008	17
44700	1.007	17
44800	1.007	17
44900	1.007	17
45000	1.007	17
45100	1.007	17
45200	1.008	17
45300	1.009	17
45400	1.009	17
45500	1.014	3
45600	1.017	3
45700	1.019	3
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45900	1.022	3
46000	1.023	3
46100	1.024	3
46200	1.024	3
46300	1.025	3
46400	1.025	3
46500	1.025	3
46600	1.026	3
46700	1.026	3
46800	1.026	3
46900	1.026	3
47000	1.026	3
47100	1.026	3
47200	1.026	3
47300	1.026	3
47400	1.026	3
47500	1.026	3
47600	1.026	3
47700	1.026	3
47800	1.026	3
47900	1.026	3
48000	1.026	3
48100	1.026	3
48200	1.026	3
48300	1.026	3
48400	1.026	3
48500	1.026	3
48600	1.025	3
48700	1.025	3
48800	1.025	3
48900	1.025	3
49000	1.025	3
49100	1.025	3
49200	1.025	3
49300	1.026	3
49400	1.026	3
49500	1.027	3
49600	1.028	3
49700	1.028	3
49800	1.028	3
49900	1.028	3
50000	1.028	3

50100	1.028	3
50200	1.028	3
50300	1.028	3
50400	1.029	17
50500	1.030	17
50600	1.031	17
50700	1.033	17
50800	1.033	17
50900	1.033	17
51000	1.033	17
51100	1.033	17
51200	1.033	17
51300	1.033	17
51400	1.032	3
51500	1.032	3
51600	1.032	3
51700	1.032	17
51800	1.034	17
51900	1.036	17
52000	1.037	17
52100	1.038	17
52200	1.036	17
52300	1.035	17
52400	1.035	17
52500	1.036	17
52600	1.034	17
52700	1.032	17
52800	1.032	17
52900	1.032	17
53000	1.031	3
53100	1.031	3
53200	1.030	3
53300	1.030	3
53400	1.030	3
53500	1.030	3
53600	1.030	3
53700	1.030	3
53800	1.030	3
53900	1.029	3
54000	1.029	3
54100	1.029	3
54200	1.028	3
54300	1.028	3
54400	1.028	3
54500	1.027	3
54600	1.028	3
54700	1.028	3
54800	1.028	3
54900	1.028	3
55000	1.028	3
55100	1.027	3
55200	1.027	3
55300	1.027	3
55400	1.026	3
55500	1.025	3
55600	1.025	3
55700	1.025	3
55800	1.024	3
55900	1.024	3
56000	1.024	3
56100	1.024	3
56200	1.024	3
56300	1.024	3
56400	1.023	3
56500	1.023	3
56600	1.023	3
56700	1.023	3
56800	1.023	3
56900	1.023	3
57000	1.022	3
57100	1.022	3
57200	1.022	3
57300	1.022	3
57400	1.021	3

57500	1.021	3
57600	1.021	3
57700	1.021	3
57800	1.022	3
57900	1.022	3
58000	1.022	3
58100	1.021	3
58200	1.021	3
58300	1.021	3
58400	1.021	3
58500	1.021	3
58600	1.021	3
58700	1.021	3
58800	1.021	3
58900	1.020	3
59000	1.020	3
59100	1.020	3
59200	1.021	3
59300	1.020	3
59400	1.020	3
59500	1.020	3
59600	1.020	3
59700	1.020	3
59800	1.020	3
59900	1.020	3
60000	1.020	3
60100	1.020	3
60200	1.020	3
60300	1.020	3
60400	1.020	3
60500	1.020	3
60600	1.020	3
60700	1.020	3
60800	1.020	3
60900	1.020	3
61000	1.020	3
61100	1.020	3
61200	1.020	3
61300	1.020	3
61400	1.020	3
61500	1.020	3
61600	1.019	3
61700	1.019	3
61800	1.019	3
61900	1.019	3
62000	1.019	3
62100	1.019	3
62200	1.019	3
62300	1.019	3
62400	1.019	3
62500	1.019	3
62600	1.019	3
62700	1.019	3
62800	1.019	3
62900	1.019	3
63000	1.019	3
63100	1.019	3
63200	1.019	3
63300	1.019	3
63400	1.019	3
63500	1.020	3
63600	1.019	3
63700	1.019	3
63800	1.019	3
63900	1.019	3
64000	1.019	3
64100	1.019	3
64200	1.018	3
64300	1.018	3
64400	1.018	3
64500	1.018	3
64600	1.018	3
64700	1.018	3
64800	1.018	3

64900	1.018	3
65000	1.018	3
65100	1.018	3
65200	1.018	3
65300	1.018	3
65400	1.018	3
65500	1.018	3
65600	1.018	3
65700	1.018	3
65800	1.018	3
65900	1.018	3
66000	1.018	3
66100	1.018	3
66200	1.018	3
66300	1.018	3
66400	1.018	3
66500	1.019	3
66600	1.019	3
66700	1.020	3
66800	1.022	3
66900	1.022	3
67000	1.022	3
67100	1.022	3
67200	1.022	3
67300	1.022	3
67400	1.022	3
67500	1.022	3
67600	1.022	3
67700	1.022	3
67800	1.022	3
67900	1.022	3
68000	1.022	3
68100	1.021	3
68200	1.021	3
68300	1.021	3
68400	1.021	3
68500	1.021	3
68600	1.021	3
68700	1.021	3
68800	1.021	3
68900	1.021	3
69000	1.021	3
69100	1.022	3
69200	1.022	3
69300	1.022	3
69400	1.022	3
69500	1.022	3
69600	1.022	3
69700	1.022	3
69800	1.022	3
69900	1.022	3
70000	1.022	3
70100	1.022	3
70200	1.022	3
70300	1.021	3
70400	1.021	3
70500	1.021	3
70600	1.021	3
70700	1.021	3
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148900	1.008	10
149000	1.008	10
149100	1.008	10
149200	1.008	10
149300	1.008	10
149400	1.008	10
149500	1.008	10
149600	1.008	10
149700	1.008	10
149800	1.008	10
149900	1.008	10
150000	1.008	10
150100	1.008	10
150200	1.008	10
150300	1.008	10
150400	1.008	10
150500	1.008	10
150600	1.008	10
150700	1.008	10
150800	1.008	10
150900	1.008	10
151000	1.008	10
151100	1.008	10
151200	1.008	10
151300	1.008	10
151400	1.008	10
151500	1.009	10
151600	1.009	10
151700	1.010	10
151800	1.010	10
151900	1.010	10
152000	1.010	10
152100	1.010	10
152200	1.010	3
152300	1.010	3
152400	1.010	3
152500	1.010	3
152600	1.010	3
152700	1.010	3
152800	1.010	3
152900	1.010	3
153000	1.010	3
153100	1.011	3
153200	1.011	3
153300	1.011	3
153400	1.011	3
153500	1.011	3
153600	1.011	3

153700	1.011	3
153800	1.012	3
153900	1.012	3
154000	1.012	3
154100	1.012	3
154200	1.012	3
154300	1.012	3
154400	1.012	3
154500	1.012	3
154600	1.012	3
154700	1.012	3
154800	1.012	3
154900	1.012	3
155000	1.012	3
155100	1.012	3
155200	1.012	3
155300	1.012	3
155400	1.012	3
155500	1.012	3
155600	1.012	3
155700	1.012	3
155800	1.012	3
155900	1.012	3
156000	1.012	3
156100	1.012	3
156200	1.012	3
156300	1.011	3
156400	1.011	3
156500	1.011	3
156600	1.011	3
156700	1.011	3
156800	1.011	3
156900	1.011	3
157000	1.011	3
157100	1.011	3
157200	1.011	3
157300	1.011	3
157400	1.011	3
157500	1.011	3
157600	1.011	3
157700	1.011	3
157800	1.011	3
157900	1.011	3
158000	1.010	3
158100	1.010	3
158200	1.010	3
158300	1.010	3
158400	1.010	10
158500	1.010	10
158600	1.009	10
158700	1.009	10
158800	1.010	10
158900	1.009	10
159000	1.010	10
159100	1.010	10
159200	1.010	10
159300	1.010	10
159400	1.010	10
159500	1.010	10
159600	1.010	3
159700	1.010	10
159800	1.010	3
159900	1.010	3
160000	1.010	3
160100	1.010	3
160200	1.010	3
160300	1.010	10
160400	1.010	3
160500	1.010	3
160600	1.010	3
160700	1.010	3
160800	1.010	3
160900	1.010	3
161000	1.009	10

161100	1.009	10
161200	1.009	10
161300	1.009	10
161400	1.009	10
161500	1.009	10
161600	1.009	10
161700	1.009	10
161800	1.009	10
161900	1.009	10
162000	1.009	10
162100	1.009	3
162200	1.010	3
162300	1.010	3
162400	1.010	3
162500	1.010	3
162600	1.010	3
162700	1.010	3
162800	1.010	3
162900	1.010	3
163000	1.010	3
163100	1.010	3
163200	1.010	3
163300	1.010	3
163400	1.010	3
163500	1.011	3
163600	1.011	3
163700	1.011	3
163800	1.011	3
163900	1.011	3
164000	1.011	3
164100	1.012	3
164200	1.012	3
164300	1.012	3
164400	1.012	3
164500	1.012	3
164600	1.012	3
164700	1.012	3
164800	1.012	3
164900	1.012	3
165000	1.012	3
165100	1.012	3
165200	1.012	3
165300	1.011	3
165400	1.011	3
165500	1.011	3
165600	1.011	3
165700	1.011	3
165800	1.011	3
165900	1.011	3
166000	1.011	3
166100	1.011	3
166200	1.011	3
166300	1.011	3
166400	1.012	3
166500	1.012	3
166600	1.012	3
166700	1.012	3
166800	1.012	3
166900	1.012	3
167000	1.011	3
167100	1.011	3
167200	1.011	3
167300	1.011	3
167400	1.011	3
167500	1.010	3
167600	1.010	3
167700	1.010	3
167800	1.010	3
167900	1.010	3
168000	1.010	3
168100	1.010	3
168200	1.010	3
168300	1.010	3
168400	1.010	3

168500	1.010	3
168600	1.010	3
168700	1.010	3
168800	1.010	3
168900	1.010	3
169000	1.010	3
169100	1.010	3
169200	1.010	3
169300	1.009	3
169400	1.009	3
169500	1.009	10
169600	1.009	10
169700	1.009	10
169800	1.009	10
169900	1.009	10
170000	1.009	3
170100	1.009	3
170200	1.009	10
170300	1.009	10
170400	1.009	10
170500	1.009	3
170600	1.009	3
170700	1.009	3
170800	1.009	3
170900	1.009	3
171000	1.009	3
171100	1.009	3
171200	1.009	3
171300	1.009	3
171400	1.009	3
171500	1.009	3
171600	1.009	3
171700	1.009	3
171800	1.009	3
171900	1.009	3
172000	1.009	3
172100	1.008	3
172200	1.008	3
172300	1.008	10
172400	1.007	10
172500	1.007	10
172600	1.007	10
172700	1.007	10
172800	1.007	3
172900	1.008	3
173000	1.008	3
173100	1.008	3
173200	1.008	3
173300	1.008	3
173400	1.007	3
173500	1.007	3
173600	1.007	3
173700	1.007	3
173800	1.007	3
173900	1.007	3
174000	1.007	3
174100	1.007	3
174200	1.007	3
174300	1.007	3
174400	1.007	3
174500	1.007	3
174600	1.007	3
174700	1.007	10
174800	1.007	10
174900	1.007	10
175000	1.007	10
175100	1.007	10
175200	1.007	10
175300	1.007	10
175400	1.007	10
175500	1.007	10
175600	1.007	10
175700	1.007	10
175800	1.007	10

175900	1.007	10
176000	1.007	10
176100	1.007	10
176200	1.007	10
176300	1.007	10
176400	1.007	10
176500	1.007	10
176600	1.007	10
176700	1.007	10
176800	1.007	10
176900	1.007	10
177000	1.007	10
177100	1.007	10
177200	1.007	10
177300	1.007	10
177400	1.007	10
177500	1.007	10
177600	1.007	10
177700	1.007	10
177800	1.007	10
177900	1.007	10
178000	1.007	10
178100	1.007	10
178200	1.007	10
178300	1.007	10
178400	1.007	10
178500	1.007	10
178600	1.007	10
178700	1.007	10
178800	1.007	10
178900	1.007	10
179000	1.007	10
179100	1.007	10
179200	1.007	10
179300	1.006	10
179400	1.006	10
179500	1.006	10
179600	1.006	10
179700	1.006	10
179800	1.006	10
179900	1.007	10
180000	1.007	10
180100	1.007	10
180200	1.007	10
180300	1.006	10
180400	1.006	10
180500	1.006	10
180600	1.006	10
180700	1.006	10
180800	1.006	10
180900	1.006	10
181000	1.006	10
181100	1.006	10
181200	1.006	10
181300	1.006	10
181400	1.006	10
181500	1.006	10
181600	1.006	10
181700	1.006	10
181800	1.006	10
181900	1.006	10
182000	1.006	10
182100	1.006	10
182200	1.006	10
182300	1.006	10
182400	1.006	10
182500	1.006	10
182600	1.006	10
182700	1.006	10
182800	1.006	10
182900	1.006	10
183000	1.006	10
183100	1.006	10
183200	1.006	10

183300	1.006	10
183400	1.006	10
183500	1.006	10
183600	1.006	10
183700	1.006	10
183800	1.006	10
183900	1.006	10
184000	1.005	10
184100	1.005	10
184200	1.005	10
184300	1.005	10
184400	1.005	10
184500	1.005	10
184600	1.005	10
184700	1.004	10
184800	1.003	10
184900	1.002	10
185000	1.002	10
185100	1.002	10
185200	1.002	10
185300	1.002	10
185400	1.002	10
185500	1.002	10
185600	1.002	10
185700	1.002	10
185800	1.002	10
185900	1.002	10
186000	1.002	10
186100	1.003	20
186200	1.003	20
186300	1.003	20
186400	1.003	20
186500	1.003	20
186600	1.003	20
186700	1.003	20
186800	1.003	20
186900	1.003	20
187000	1.003	20
187100	1.002	20
187200	1.003	20
187300	1.003	20
187400	1.002	10
187500	1.002	10
187600	1.002	10
187700	1.002	20
187800	1.002	20
187900	1.003	20
188000	1.003	20
188100	1.003	20
188200	1.003	20
188300	1.003	20
188400	1.003	20
188500	1.003	20
188600	1.003	20
188700	1.003	20
188800	1.003	20
188900	1.003	20
189000	1.003	20
189100	1.002	20
189200	1.002	10
189300	1.002	10
189400	1.002	10
189500	1.002	10
189600	1.002	10
189700	1.002	10
189800	1.002	10
189900	1.002	10
190000	1.002	10
190100	1.002	10
190200	1.002	20
190300	1.002	20
190400	1.002	20
190500	1.002	20
190600	1.002	20

190700	1.002	20
190800	1.002	20
190900	1.002	20
191000	1.002	20
191100	1.002	20
191200	1.002	20
191300	1.002	20
191400	1.002	20
191500	1.002	20
191600	1.002	20

TECHNICAL 5 OUTPUT

DIAGRAM INFORMATION

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

Beginning Time: 21:59:59
Ending Time: 22:33:26
Elapsed Time: 00:33:27

MUTHEN & MUTHEN
3463 Stoner Ave.
Los Angeles, CA 90066

Tel: (310) 391-9971
Fax: (310) 391-8971
Web: www.StatModel.com
Support: Support@StatModel.com

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Mplus Output Full Multilevel SEM:

```

Mplus VERSION 8.4
MUTHEN & MUTHEN
10/14/2021 12:11 PM

INPUT INSTRUCTIONS

TITLE:

DATA: FILE = mpltry6.dat;

VARIABLE:
  NAMES = pno wave sex yol verst nopart
          basagec90 agec90 tims tsbase
          ttd ttdcens basettd basttdc
          aut pil ema sac dep
          pa na swls adlinv hyp
          visus sfenerg sfsofunc sfpain sfgen sfchang
          anges anget akzet mortinv mortperc
          basadlinv basvisus bashkr bassssc
          bassfen bassfso bassfpain bassfgen bassfcha
          hkr sl sssco;
  USEVARIABLES = aut ema pil sac pa na swls tsbase basttdc
                bashkr bassssc basagec90 sex yol;
  CLUSTER = PNO;
  MISSING = .;
  WITHIN = tsbase;
  BETWEEN = basttdc bashkr bassssc basagec90 sex yol;

DEFINE:
  CENTER sex yol (grandmean);

ANALYSIS:
  TYPE = twolevel random;
  ESTIMATOR = BAYES;
  CHAINS = 2;
  BITERATIONS=1000000;
  BCONVERGENCE = 0.00125;

MODEL:

%WITHIN%

slopeaut | aut ON tsbase;
lnvaut | aut;
slopeema | ema ON tsbase;
lnvema | ema;
slopepil | pil ON tsbase;
lnvpil | pil;
slopesac | sac ON tsbase;
lnvsac | sac;
slopels | swls ON tsbase;
lnvls | swls;
slopena | na ON tsbase;
lnvna | na;
slopepa | pa ON tsbase;
lnvpa | pa;

%BETWEEN%

physcon by bashkr@1 bassssc;

BASTTDC ON
  PHYSCON*0.413
  SLOPEAUT*-7.254
  LNVAUT*1.433
  SLOPEEMA*10.407
  LNVEMA*1.122
  SLOPEPIL*-1.873
  LNVPIIL*0.399

```

```

SLOPESAC*-0.043
LNVSAC*0.190
SLOPELS*-1.418
LNVLs*0.030
SLOPENa*1.873
LNVNA*0.967
SLOPEPA*8.963
LNVPA*-0.699
AUT*-2.160
EMA*0.883
PIL*-0.099
SAC*-0.252
SWLS*0.127
NA*-0.827
PA*0.498
SEX*1.427
YOL*-0.248
BASAGEC90*-0.255
PHYSCON*8.685;

[ aut*4.014 ] (m1);
[ pil*3.242 ] (m2);
[ ema*4.130 ] (m3);
[ sac*4.076 ] (m4);
[ pa*3.314 ] (m5);
[ swls*3.688 ] (m6);
[ na*2.110 ] (m7);
[ slopeaut*-0.005 ] (ms1);
[ lnvaut*-2.018 ] (mv1);
[ slopeema*-0.011 ] (ms3);
[ lnvema*-1.911 ] (mv3);
[ slopepil*-0.011 ] (ms2);
[ lnvpil*-1.935 ] (mv2);
[ slopesac*-0.004 ] (ms4);
[ lnvsac*-2.234 ] (mv4);
[ slopels*-0.002 ] (ms6);
[ lnvlS*-1.963 ] (mv6);
[ slopena*-0.002 ] (ms7);
[ lnvna*-2.531 ] (mv7);
[ slopepa*-0.015 ] (ms5);
[ lnvpa*-2.300 ] (mv5);

[ BASTTDC*19.379];
[ BASHKR*18.495];
[ BASSSSC*1.334];

aut*0.224;
pil*0.383;
ema*0.275;
sac*0.283;
pa*0.329;
swls*0.595;
na*0.344;
slopeaut*0.001
lnvaut*0.354;
slopeema*0.001;
lnvema*0.174;
slopepil*0.001;
lnvpil*0.423;
slopesac*0.001;
lnvsac*0.348;
slopels*0.001;
lnvlS*0.392;
slopena*0.000;
lnvna*0.328;
slopepa*0.001;
lnvpa*0.340;

aut with slopeaut*-0.003
      lnvaut*0.123;
slopeaut with lnvaut*-0.002;
pil with slopepil*-0.007
      lnvpil*-0.076;
slopepil with lnvpil*0.002;

```

```

ema with slopeema*-0.003
      lnvema*0.007;
slopeema with lnvema*-0.001;
sac with slopesac*-0.004
      lnvsac*-0.010;
slopesac with lnvsac*0.000;
swls with slopels*-0.005
      lnvlsl*-0.153;
slopels with lnvlsl*0.001;
pa with slopepa*-0.001
      lnvpa*0.065;
slopepa with lnvpa*-0.001;
na with slopena*-0.003
      lnvna*0.180;
slopena with lnvna*-0.001;

```

MODEL PRIORS:

```

m1 ~ N(3.98,0.048);
m3 ~ N(4.05,0.078);
m2 ~ N(3.16,0.109);
m4 ~ N(4.03,0.109);
m7 ~ N(2.12,0.102);
m5 ~ N(3.20,0.116);
m6 ~ N(3.66,0.372);
ms1 ~ N(-0.006,0.000004);
ms3 ~ N(-0.052,0.0001);
ms2 ~ N(-0.075,0.0001);
ms4 ~ N(-0.009,0.00026);
ms6 ~ N(0.045,0.00053);
ms7 ~ N(-0.029,0.00017);
ms5 ~ N(-0.044,0.00036);

```

OUTPUT:

```

standardized
tech5 tech8 tech16;

```

```

*** WARNING in VARIABLE command
Note that only the first 8 characters of variable names are used in the output.
Shorten variable names to avoid any confusion.
*** WARNING in MODEL command
In the MODEL command, the following variable is an x-variable on the BETWEEN
level and a y-variable on the WITHIN level. This variable will be treated
as a y-variable on both levels: AUT
*** WARNING in MODEL command
In the MODEL command, the following variable is an x-variable on the BETWEEN
level and a y-variable on the WITHIN level. This variable will be treated
as a y-variable on both levels: EMA
*** WARNING in MODEL command
In the MODEL command, the following variable is an x-variable on the BETWEEN
level and a y-variable on the WITHIN level. This variable will be treated
as a y-variable on both levels: PIL
*** WARNING in MODEL command
In the MODEL command, the following variable is an x-variable on the BETWEEN
level and a y-variable on the WITHIN level. This variable will be treated
as a y-variable on both levels: SAC
*** WARNING in MODEL command
In the MODEL command, the following variable is an x-variable on the BETWEEN
level and a y-variable on the WITHIN level. This variable will be treated
as a y-variable on both levels: PA
*** WARNING in MODEL command
In the MODEL command, the following variable is an x-variable on the BETWEEN
level and a y-variable on the WITHIN level. This variable will be treated
as a y-variable on both levels: NA
*** WARNING in MODEL command
In the MODEL command, the following variable is an x-variable on the BETWEEN
level and a y-variable on the WITHIN level. This variable will be treated
as a y-variable on both levels: SWLS
*** WARNING
One or more individual-level variables have no variation within a
cluster for the following clusters.

```

Variable	Cluster IDs with no within-cluster variation
AUT	10130 11297 16142 16798 11258 15175
EMA	10969 16142 16798 11384
PIL	10130 11297 16142 16798 16510 10211
SAC	16142 16798 15510
PA	10130 10144 10313 11240 11741 15018 16142 16798 18650 11028
NA	10130 10144 10313 11240 11741 15018 16142 16798 11371 11295
SWLS	10130 10144 10313 10473 10893 11240 11297 11741 15018 16142 16798 11258 15510 18252 10228

9 WARNING(S) FOUND IN THE INPUT INSTRUCTIONS

SUMMARY OF ANALYSIS

Number of groups	1
Number of observations	682
Number of dependent variables	10
Number of independent variables	4
Number of continuous latent variables	15

Observed dependent variables

Continuous					
BASTTDC	BASHKR	BASSSSC	AUT	EMA	PIL
SAC	PA	NA	SWLS		

Observed independent variables

TSBASE	BASAGEC9	SEX	YOL
--------	----------	-----	-----

Continuous latent variables

PHYSCON	SLOPEAUT	LNVAUT	SLOPEEMA	LNVEMA	SLOPEPIL
LNVPIL	SLOPESAC	LNVSAC	SLOPELS	LNVL	SLOPEN
LNVA	SLOPEPA	LNVA			

Variables with special functions

Cluster variable	PNO
------------------	-----

Within variables
TSBASE

Between variables					
BASTTDC	BASHKR	BASSSSC	BASAGEC9	SEX	YOL

Centering (GRANDMEAN)
SEX
YOL

Estimator	BAYES
Specifications for Bayesian Estimation	
Point estimate	MEDIAN
Number of Markov chain Monte Carlo (MCMC) chains	2
Random seed for the first chain	0
Starting value information	UNPERTURBED
Algorithm used for Markov chain Monte Carlo	GIBBS(PX1)
Convergence criterion	0.125D-02
Maximum number of iterations	1000000
K-th iteration used for thinning	1

Input data file(s)
mpltry6.dat
Input data format
FREE

SUMMARY OF DATA

Number of clusters	124
Size (s)	Cluster ID with Size s

1	10026	10130	10144	10313	10473	10558	10567	10637	10663
	10893	10901	10907	10911	10939	10969	11157	11240	11294
	11297	11741	15018	15177	15241	15319	15564	16142	16423
	16610	16669	16798	17542	18507	18650			
2	15239	11258	10181	15510	10615	11341	16303	11371	16510
	11384	11485	11028	16862	10211	17780	18004	18252	15175
	10228								
3	11573	11295	17130	11100	17745	10340	10460	10461	10210
	11501								
4	10904	11457	10434	11493	10811	17593			
5	15424	10666	12411	11343	11005				
6	10159	15092	15121	15426	11593	11163	10139	16220	19067
7	10354	11230	10894	10724	10470				
8	10252	10528	11038	10033	11336	11253			
9	15623	11055							
10	12037	10167	17197	15009	19500				
11	11233	10444	15714	10533					
12	11079	10577	15378	12714	10986	10428			
13	11420	11002							
14	11450								
15	10108	10906	10551	15231	10902				
16	15141	10940	16103	15472	11528	11378			

COVARIANCE COVERAGE OF DATA

Minimum covariance coverage value 0.100

Number of missing data patterns 31

PROPORTION OF DATA PRESENT

	Covariance Coverage				
	BASTTDC	BASHKR	BASSSSC	AUT	EMA
BASTTDC	0.944				
BASHKR	0.912	0.968			
BASSSSC	0.935	0.968	0.991		
AUT	0.921	0.949	0.971	0.977	
EMA	0.921	0.944	0.966	0.962	0.974
PIL	0.909	0.931	0.952	0.957	0.947
SAC	0.928	0.952	0.974	0.969	0.969
PA	0.908	0.943	0.956	0.950	0.943
NA	0.911	0.947	0.960	0.955	0.947
SWLS	0.918	0.956	0.968	0.962	0.957
TSBASE	0.944	0.968	0.991	0.977	0.974
BASAGEC9	0.944	0.968	0.991	0.977	0.974
SEX	0.944	0.968	0.991	0.977	0.974
YOL	0.944	0.968	0.991	0.977	0.974

	Covariance Coverage				
	PIL	SAC	PA	NA	SWLS
PIL	0.957				
SAC	0.955	0.981			
PA	0.931	0.950	0.962		
NA	0.935	0.955	0.962	0.966	
SWLS	0.943	0.965	0.952	0.956	0.974
TSBASE	0.957	0.981	0.962	0.966	0.974
BASAGEC9	0.957	0.981	0.962	0.966	0.974
SEX	0.957	0.981	0.962	0.966	0.974
YOL	0.957	0.981	0.962	0.966	0.974

	Covariance Coverage			
	TSBASE	BASAGEC9	SEX	YOL
TSBASE	1.000			
BASAGEC9	1.000	1.000		

SEX	1.000	1.000	1.000	
YOL	1.000	1.000	1.000	1.000

UNIVARIATE SAMPLE STATISTICS

UNIVARIATE HIGHER-ORDER MOMENT DESCRIPTIVE STATISTICS

Variable/ Sample Size	Mean/ Variance	Skewness/ Kurtosis	Minimum/ Maximum	% with Min/Max	20%/60%	Percentiles 40%/80%	Median
BASTTDC	5.519	0.456	0.250	0.83%	2.250	4.250	5.083
120.000	10.267	-0.614	12.667	1.67%	6.083	8.250	
BASHKR	18.519	1.282	5.330	0.89%	12.330	16.500	17.750
112.000	48.308	2.780	49.000	0.89%	18.670	23.330	
BASSSSC	1.333	0.640	0.000	53.33%	0.000	0.000	0.000
120.000	2.606	-1.294	4.000	17.50%	1.000	3.000	
AUT	3.892	-0.192	2.222	0.30%	3.333	3.778	3.889
666.000	0.344	-0.528	5.000	2.70%	4.111	4.444	
EMA	3.936	-0.567	1.222	0.15%	3.444	3.778	4.000
664.000	0.400	0.104	5.000	2.11%	4.111	4.556	
PIL	3.027	-0.004	1.250	0.15%	2.500	2.889	3.000
653.000	0.371	0.003	5.000	0.15%	3.222	3.556	
SAC	3.990	-0.735	1.889	0.30%	3.556	3.875	4.000
669.000	0.362	0.733	5.000	2.39%	4.222	4.500	
PA	3.172	0.047	1.380	0.15%	2.600	3.000	3.135
656.000	0.406	-0.288	4.800	0.30%	3.300	3.700	
NA	2.046	0.407	1.000	3.19%	1.500	1.800	2.000
659.000	0.369	-0.249	4.100	0.15%	2.200	2.600	
SWLS	3.782	-0.748	1.000	0.30%	3.200	3.750	3.800
664.000	0.591	0.556	5.000	5.72%	4.000	4.400	
TSBASE	36.711	0.258	0.000	3.08%	13.000	27.000	36.000
682.000	594.554	-0.917	91.000	0.59%	41.000	60.000	
BASAGEC90	0.106	0.407	-3.917	0.81%	-2.833	-1.250	-0.792
124.000	8.313	-1.090	6.417	0.81%	0.500	3.083	
SEX	0.000	-1.426	-0.790	20.97%	-0.790	0.210	0.210
124.000	0.166	0.035	0.210	79.03%	0.210	0.210	
YOL	0.000	0.868	-3.387	20.97%	-3.387	-1.387	-1.387
124.000	8.737	-0.315	5.613	17.74%	0.613	0.613	

THE MODEL ESTIMATION TERMINATED NORMALLY

USE THE FBITERATIONS OPTION TO INCREASE THE NUMBER OF ITERATIONS BY A FACTOR
OF AT LEAST TWO TO CHECK CONVERGENCE AND THAT THE PSR VALUE DOES NOT INCREASE.

MODEL FIT INFORMATION

Number of Free Parameters 96

Information Criteria

Deviance (DIC) 7545.832
Estimated Number of Parameters (pD) 1464.805

MODEL RESULTS

	Estimate	Posterior S.D.	One-Tailed P-Value	95% C.I.		Significance
				Lower 2.5%	Upper 2.5%	
Within Level						
Between Level						
PHYSCON BY						
BASHKR	1.000	0.000	0.000	1.000	1.000	
BASSSSC	0.364	0.415	0.000	0.086	1.409	*

BASTTDC	ON						
PHYSCON		0.412	0.390	0.006	0.076	1.313	*
SLOPEAUT		-7.199	17.458	0.337	-41.746	26.814	
LNVAUT		1.425	1.090	0.075	-0.583	3.733	
SLOPEEMA		10.418	18.387	0.284	-25.817	46.391	
LNVEMA		1.138	1.625	0.211	-2.069	4.395	
SLOPEPIL		-1.854	19.188	0.461	-39.792	35.556	
LNVPIL		0.401	0.844	0.312	-1.297	2.037	
SLOPESAC		-0.070	19.287	0.499	-38.238	37.594	
LNVSAC		0.184	1.006	0.423	-1.818	2.173	
SLOPELS		-1.397	18.526	0.470	-37.659	35.131	
LNVL		0.026	0.912	0.488	-1.812	1.800	
SLOPENA		1.903	18.670	0.459	-34.848	38.471	
LNVA		0.958	1.257	0.195	-1.292	3.659	
SLOPEPA		8.976	17.352	0.301	-25.181	43.072	
LNVPA		-0.691	0.943	0.217	-2.611	1.126	
BASTTDC	ON						
AUT		-2.157	1.136	0.023	-4.522	-0.042	*
EMA		0.881	1.121	0.213	-1.321	3.092	
PIL		-0.097	0.878	0.456	-1.826	1.626	
SAC		-0.257	1.102	0.406	-2.437	1.899	
SWLS		0.126	0.796	0.437	-1.408	1.717	
NA		-0.818	1.020	0.192	-2.983	1.040	
PA		0.494	0.897	0.288	-1.231	2.290	
SEX		1.432	0.826	0.037	-0.144	3.109	
YOL		-0.248	0.108	0.011	-0.461	-0.036	*
BASAGEC90		-0.255	0.108	0.009	-0.468	-0.043	*
AUT	WITH						
SLOPEAUT		-0.003	0.002	0.038	-0.006	0.000	
LNVAUT		0.123	0.064	0.021	0.004	0.258	*
SLOPEAUT	WITH						
LNVAUT		-0.002	0.002	0.124	-0.008	0.002	
PIL	WITH						
SLOPEPIL		-0.007	0.003	0.000	-0.012	-0.003	*
LNVPIL		-0.076	0.077	0.151	-0.234	0.073	
SLOPEPIL	WITH						
LNVPIL		0.002	0.003	0.253	-0.004	0.008	
EMA	WITH						
SLOPEEMA		-0.003	0.002	0.040	-0.007	0.000	
LNVEMA		0.008	0.057	0.443	-0.102	0.123	
SLOPEEMA	WITH						
LNVEMA		-0.001	0.002	0.290	-0.005	0.003	
SAC	WITH						
SLOPESAC		-0.004	0.002	0.015	-0.008	0.000	*
LNVSAC		-0.101	0.063	0.045	-0.234	0.017	
SLOPESAC	WITH						
LNVSAC		0.000	0.003	0.468	-0.005	0.005	
SWLS	WITH						
SLOPELS		-0.005	0.003	0.022	-0.012	0.000	*
LNVL		-0.153	0.099	0.054	-0.356	0.036	
SLOPELS	WITH						
LNVL		0.001	0.003	0.283	-0.004	0.007	
PA	WITH						
SLOPEPA		-0.001	0.002	0.318	-0.005	0.003	
LNVPA		0.065	0.077	0.180	-0.073	0.230	
SLOPEPA	WITH						
LNVPA		-0.001	0.003	0.273	-0.007	0.003	
NA	WITH						
SLOPENA		-0.003	0.002	0.048	-0.007	0.001	
LNVA		0.179	0.072	0.003	0.052	0.337	*

SLOPENA WITH LNVNA	-0.001	0.002	0.359	-0.005	0.003
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Means

AUT	4.014	0.051	0.000	3.914	4.116	*
EMA	4.129	0.058	0.000	4.015	4.244	*
PIL	3.242	0.067	0.000	3.111	3.375	*
SAC	4.076	0.058	0.000	3.960	4.187	*
PA	3.314	0.063	0.000	3.191	3.438	*
NA	2.110	0.061	0.000	1.992	2.232	*
SWLS	3.688	0.082	0.000	3.525	3.848	*
SLOPEAUT	-0.005	0.002	0.004	-0.008	-0.001	*
LNVAUT	-2.019	0.118	0.000	-2.266	-1.803	*
SLOPEEMA	-0.011	0.003	0.000	-0.017	-0.004	*
LNVEMA	-1.913	0.106	0.000	-2.131	-1.717	*
SLOPEPIL	-0.011	0.003	0.000	-0.017	-0.005	*
LNVPIL	-1.935	0.122	0.000	-2.186	-1.704	*
SLOPESAC	-0.004	0.003	0.094	-0.010	0.002	
LNVSAC	-2.234	0.110	0.000	-2.452	-2.017	*
SLOPELS	0.002	0.003	0.300	-0.005	0.008	
LNVLs	-1.968	0.112	0.000	-2.191	-1.751	*
SLOPENA	-0.002	0.003	0.230	-0.008	0.004	
LNVNA	-2.529	0.110	0.000	-2.757	-2.324	*
SLOPEPA	-0.015	0.003	0.000	-0.022	-0.010	*
LNVPA	-2.302	0.118	0.000	-2.539	-2.074	*

Intercepts

BASTTDC	19.378	8.657	0.011	2.922	37.202	*
BASHKR	18.495	0.677	0.000	17.164	19.825	*
BASSSSC	1.334	0.151	0.000	1.037	1.630	*

Variances

AUT	0.224	0.047	0.000	0.147	0.332	*
EMA	0.275	0.056	0.000	0.183	0.403	*
PIL	0.383	0.077	0.000	0.259	0.559	*
SAC	0.283	0.058	0.000	0.189	0.416	*
PA	0.329	0.062	0.000	0.230	0.474	*
NA	0.344	0.062	0.000	0.246	0.486	*
SWLS	0.595	0.111	0.000	0.417	0.852	*
PHYSCON	8.734	8.707	0.000	0.912	34.504	*
SLOPEAUT	0.001	0.000	0.000	0.000	0.001	*
LNVAUT	0.357	0.137	0.000	0.164	0.696	*
SLOPEEMA	0.001	0.000	0.000	0.000	0.001	*
LNVEMA	0.174	0.101	0.000	0.042	0.430	*
SLOPEPIL	0.001	0.000	0.000	0.000	0.001	*
LNVPIL	0.425	0.157	0.000	0.206	0.818	*
SLOPESAC	0.001	0.000	0.000	0.000	0.001	*
LNVSAC	0.348	0.140	0.000	0.152	0.696	*
SLOPELS	0.001	0.000	0.000	0.000	0.001	*
LNVLs	0.390	0.144	0.000	0.181	0.744	*
SLOPENA	0.000	0.000	0.000	0.000	0.001	*
LNVNA	0.326	0.142	0.000	0.131	0.683	*
SLOPEPA	0.001	0.000	0.000	0.000	0.001	*
LNVPA	0.340	0.142	0.000	0.134	0.687	*

Residual Variances

BASTTDC	5.455	1.468	0.000	3.077	8.820	*
BASHKR	41.136	9.642	0.000	17.697	57.874	*
BASSSSC	1.554	0.669	0.000	0.153	2.713	*

STANDARDIZED MODEL RESULTS

STDYX Standardization

Estimate	Posterior S.D.	One-Tailed P-Value	95% C.I.		Significance
			Lower 2.5%	Upper 2.5%	

Within-Level Standardized Estimates Averaged Over Clusters

SLOPEAUT AUT ON TSBASE	-0.060	0.024	0.005	-0.108	-0.013	*
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SLOPEEMA EMA ON TSBASE	-0.155	0.024	0.000	-0.203	-0.108	*
SLOPEPIL PIL ON TSBASE	-0.136	0.024	0.000	-0.183	-0.086	*
SLOPESAC SAC ON TSBASE	-0.085	0.024	0.001	-0.134	-0.037	*
SLOPELS SWLS ON TSBASE	0.014	0.024	0.287	-0.033	0.062	
SLOPENA NA ON TSBASE	-0.014	0.026	0.299	-0.061	0.036	
SLOPEPA PA ON TSBASE	-0.189	0.024	0.000	-0.233	-0.142	*
LNVAUT AUT	0.885	0.013	0.000	0.859	0.910	*
LNVEMA EMA	0.845	0.014	0.000	0.816	0.872	*
LNVPIL PIL	0.857	0.015	0.000	0.826	0.884	*
LNVSAC SAC	0.845	0.016	0.000	0.814	0.876	*
LVLS SWLS	0.867	0.013	0.000	0.842	0.892	*
LVNA NA	0.855	0.014	0.000	0.823	0.880	*
LVNPA PA	0.826	0.015	0.000	0.798	0.855	*
Between Level						
PHYSCON BY BASHKR	0.414	0.167	0.000	0.137	0.805	*
BASSSSC	0.650	0.188	0.000	0.263	0.971	*
BASTTDC ON						
PHYSCON	0.316	0.118	0.006	0.076	0.538	*
SLOPEAUT	-0.044	0.105	0.337	-0.250	0.162	
LNVAUT	0.227	0.159	0.075	-0.086	0.538	
SLOPEEMA	0.067	0.117	0.284	-0.163	0.295	
LNVEMA	0.127	0.153	0.211	-0.183	0.411	
SLOPEPIL	-0.012	0.121	0.461	-0.248	0.225	
LNVPIL	0.069	0.139	0.312	-0.206	0.336	
SLOPESAC	0.000	0.119	0.499	-0.234	0.234	
LNVSAC	0.029	0.147	0.423	-0.262	0.315	
SLOPELS	-0.009	0.115	0.470	-0.234	0.217	
LVLS	0.004	0.142	0.488	-0.276	0.280	
SLOPENA	0.011	0.107	0.459	-0.198	0.219	
LVNA	0.145	0.175	0.195	-0.180	0.505	
SLOPEPA	0.058	0.110	0.301	-0.157	0.275	
LVNPA	-0.106	0.134	0.217	-0.363	0.160	
BASTTDC ON						
AUT	-0.268	0.140	0.023	-0.556	-0.005	*
EMA	0.122	0.150	0.213	-0.179	0.404	
PIL	-0.016	0.140	0.456	-0.285	0.261	
SAC	-0.036	0.150	0.406	-0.326	0.260	
SWLS	0.026	0.157	0.437	-0.279	0.334	
NA	-0.126	0.156	0.192	-0.457	0.156	
PA	0.075	0.133	0.288	-0.180	0.337	
SEX	0.110	0.062	0.037	-0.011	0.231	
YOL	-0.138	0.059	0.011	-0.252	-0.019	*
BASAGEC90	-0.129	0.054	0.009	-0.232	-0.022	*

AUT	WITH						
SLOPEAUT		-0.240	0.128	0.038	-0.474	0.026	
LNVAUT		0.451	0.202	0.021	0.015	0.798	*
SLOPEAUT	WITH						
LNVAUT		-0.187	0.155	0.124	-0.470	0.132	
PIL	WITH						
SLOPEPIL		-0.458	0.117	0.000	-0.657	-0.202	*
LNVPIL		-0.194	0.181	0.151	-0.528	0.175	
SLOPEPIL	WITH						
LNVPIL		0.114	0.167	0.253	-0.222	0.428	
EMA	WITH						
SLOPEEMA		-0.243	0.131	0.040	-0.479	0.029	
LNVEMA		0.038	0.256	0.443	-0.465	0.532	
SLOPEEMA	WITH						
LNVEMA		-0.103	0.181	0.290	-0.441	0.263	
SAC	WITH						
SLOPESAC		-0.299	0.128	0.015	-0.527	-0.030	*
LNVSAC		-0.333	0.180	0.045	-0.642	0.056	
SLOPESAC	WITH						
LNVSAC		-0.014	0.170	0.468	-0.344	0.317	
SWLS	WITH						
SLOPELS		-0.290	0.135	0.022	-0.534	-0.007	*
LNVL		-0.330	0.185	0.054	-0.645	0.075	
SLOPELS	WITH						
LNVL		0.097	0.164	0.283	-0.232	0.406	
PA	WITH						
SLOPEPA		-0.069	0.143	0.318	-0.345	0.213	
LNVPA		0.203	0.209	0.180	-0.230	0.577	
SLOPEPA	WITH						
LNVPA		-0.104	0.167	0.273	-0.418	0.231	
NA	WITH						
SLOPENA		-0.234	0.134	0.048	-0.479	0.042	
LNUNA		0.550	0.161	0.003	0.178	0.806	*
SLOPENA	WITH						
LNUNA		-0.058	0.157	0.359	-0.359	0.254	
Means							
AUT		8.483	0.887	0.000	6.978	10.450	*
EMA		7.875	0.813	0.000	6.485	9.682	*
PIL		5.240	0.525	0.000	4.327	6.383	*
SAC		7.654	0.797	0.000	6.288	9.412	*
PA		5.775	0.545	0.000	4.800	6.934	*
NA		3.597	0.319	0.000	3.009	4.260	*
SWLS		4.782	0.459	0.000	3.955	5.755	*
SLOPEAUT		-0.199	0.077	0.004	-0.355	-0.052	*
LNVAUT		-3.387	0.604	0.000	-4.835	-2.473	*
SLOPEEMA		-0.438	0.133	0.000	-0.703	-0.180	*
LNVEMA		-4.595	1.594	0.000	-8.981	-2.993	*
SLOPEPIL		-0.451	0.131	0.000	-0.711	-0.196	*
LNVPIL		-2.972	0.525	0.000	-4.199	-2.149	*
SLOPESAC		-0.174	0.132	0.094	-0.434	0.085	
LNVSAC		-3.791	0.792	0.000	-5.720	-2.639	*
SLOPELS		0.072	0.137	0.300	-0.197	0.339	
LNVL		-3.161	0.601	0.000	-4.600	-2.245	*
SLOPENA		-0.097	0.131	0.230	-0.354	0.160	
LNUNA		-4.434	0.969	0.000	-6.884	-3.092	*
SLOPEPA		-0.632	0.120	0.000	-0.871	-0.399	*
LNVPA		-3.959	0.896	0.000	-6.219	-2.748	*

Intercepts

BASTTDC	5.093	2.255	0.011	0.757	9.648	*
BASHKR	2.594	0.202	0.000	2.206	2.996	*
BASSSSC	0.810	0.105	0.000	0.603	1.017	*
Variances						
AUT	1.000	0.000	0.000	1.000	1.000	
EMA	1.000	0.000	0.000	1.000	1.000	
PIL	1.000	0.000	0.000	1.000	1.000	
SAC	1.000	0.000	0.000	1.000	1.000	
PA	1.000	0.000	0.000	1.000	1.000	
NA	1.000	0.000	0.000	1.000	1.000	
SWLS	1.000	0.000	0.000	1.000	1.000	
PHYSCON	1.000	0.000	0.000	1.000	1.000	
SLOPEAUT	1.000	0.000	0.000	1.000	1.000	
LNVAUT	1.000	0.000	0.000	1.000	1.000	
SLOPEEMA	1.000	0.000	0.000	1.000	1.000	
LVNEMA	1.000	0.000	0.000	1.000	1.000	
SLOPEPIL	1.000	0.000	0.000	1.000	1.000	
LVNPIL	1.000	0.000	0.000	1.000	1.000	
SLOPESAC	1.000	0.000	0.000	1.000	1.000	
LVNSAC	1.000	0.000	0.000	1.000	1.000	
SLOPELS	1.000	0.000	0.000	1.000	1.000	
LVNLS	1.000	0.000	0.000	1.000	1.000	
SLOPENA	1.000	0.000	0.000	1.000	1.000	
LVNNA	1.000	0.000	0.000	1.000	1.000	
SLOPEPA	1.000	0.000	0.000	1.000	1.000	
LVNPA	1.000	0.000	0.000	1.000	1.000	
Residual Variances						
BASTTDC	0.377	0.089	0.000	0.216	0.563	*
BASHKR	0.828	0.161	0.000	0.351	0.981	*
BASSSSC	0.577	0.236	0.000	0.057	0.931	*
STDY Standardization						
	Estimate	Posterior S.D.	One-Tailed P-Value	95% C.I. Lower 2.5% Upper 2.5%		Significance
Within-Level Standardized Estimates Averaged Over Clusters						
SLOPEAUT AUT ON TSBASE	-0.004	0.006	0.214	-0.016	0.006	
SLOPEEMA EMA ON TSBASE	-0.018	0.006	0.003	-0.031	-0.006	*
SLOPEPIL PIL ON TSBASE	-0.019	0.006	0.002	-0.033	-0.007	*
SLOPESAC SAC ON TSBASE	-0.011	0.007	0.047	-0.025	0.002	
SLOPELS SWLS ON TSBASE	0.002	0.006	0.347	-0.010	0.015	
SLOPENA NA ON TSBASE	-0.005	0.008	0.292	-0.020	0.013	
SLOPEPA PA ON TSBASE	-0.031	0.007	0.000	-0.045	-0.018	*
LNVAUT AUT	0.885	0.013	0.000	0.859	0.910	*
LVNEMA EMA	0.845	0.014	0.000	0.816	0.872	*
LVNPIL PIL	0.857	0.015	0.000	0.826	0.884	*
LVNSAC SAC	0.845	0.016	0.000	0.814	0.876	*

LNVL SWLS	0.867	0.013	0.000	0.842	0.892	*
LNVA NA	0.855	0.014	0.000	0.823	0.880	*
LNVA PA	0.826	0.015	0.000	0.798	0.855	*
Between Level						
PHYSCON BY BASHKR	0.414	0.167	0.000	0.137	0.805	*
BASSSC	0.650	0.188	0.000	0.263	0.971	*
BASTTDC ON						
PHYSCON	0.316	0.118	0.006	0.076	0.538	*
SLOPEAUT	-0.044	0.105	0.337	-0.250	0.162	
LNVAUT	0.227	0.159	0.075	-0.086	0.538	
SLOPEEMA	0.067	0.117	0.284	-0.163	0.295	
LNVEMA	0.127	0.153	0.211	-0.183	0.411	
SLOPEPIL	-0.012	0.121	0.461	-0.248	0.225	
LNVPIL	0.069	0.139	0.312	-0.206	0.336	
SLOPESAC	0.000	0.119	0.499	-0.234	0.234	
LNVSAC	0.029	0.147	0.423	-0.262	0.315	
SLOPELS	-0.009	0.115	0.470	-0.234	0.217	
LNVL	0.004	0.142	0.488	-0.276	0.280	
SLOPENA	0.011	0.107	0.459	-0.198	0.219	
LNVA	0.145	0.175	0.195	-0.180	0.505	
SLOPEPA	0.058	0.110	0.301	-0.157	0.275	
LNVA	-0.106	0.134	0.217	-0.363	0.160	
BASTTDC ON						
AUT	-0.268	0.140	0.023	-0.556	-0.005	*
EMA	0.122	0.150	0.213	-0.179	0.404	
PIL	-0.016	0.140	0.456	-0.285	0.261	
SAC	-0.036	0.150	0.406	-0.326	0.260	
SWLS	0.026	0.157	0.437	-0.279	0.334	
NA	-0.126	0.156	0.192	-0.457	0.156	
PA	0.075	0.133	0.288	-0.180	0.337	
SEX	0.377	0.212	0.037	-0.037	0.794	
YOL	-0.065	0.028	0.011	-0.119	-0.009	*
BASAGEC90	-0.067	0.028	0.009	-0.121	-0.011	*
AUT WITH						
SLOPEAUT	-0.240	0.128	0.038	-0.474	0.026	
LNVAUT	0.451	0.202	0.021	0.015	0.798	*
SLOPEAUT WITH						
LNVAUT	-0.187	0.155	0.124	-0.470	0.132	
PIL WITH						
SLOPEPIL	-0.458	0.117	0.000	-0.657	-0.202	*
LNVPIL	-0.194	0.181	0.151	-0.528	0.175	
SLOPEPIL WITH						
LNVPIL	0.114	0.167	0.253	-0.222	0.428	
EMA WITH						
SLOPEEMA	-0.243	0.131	0.040	-0.479	0.029	
LNVEMA	0.038	0.256	0.443	-0.465	0.532	
SLOPEEMA WITH						
LNVEMA	-0.103	0.181	0.290	-0.441	0.263	
SAC WITH						
SLOPESAC	-0.299	0.128	0.015	-0.527	-0.030	*
LNVSAC	-0.333	0.180	0.045	-0.642	0.056	
SLOPESAC WITH						
LNVSAC	-0.014	0.170	0.468	-0.344	0.317	
SWLS WITH						
SLOPELS	-0.290	0.135	0.022	-0.534	-0.007	*

LNVLs	-0.330	0.185	0.054	-0.645	0.075	
SLOPELS WITH LNVLs	0.097	0.164	0.283	-0.232	0.406	
PA WITH SLOPEPA LNVPa	-0.069 0.203	0.143 0.209	0.318 0.180	-0.345 -0.230	0.213 0.577	
SLOPEPA WITH LNVPa	-0.104	0.167	0.273	-0.418	0.231	
NA WITH SLOPENA LNVNA	-0.234 0.550	0.134 0.161	0.048 0.003	-0.479 0.178	0.042 0.806	*
SLOPENA WITH LNVNA	-0.058	0.157	0.359	-0.359	0.254	
Means						
AUT	8.483	0.887	0.000	6.978	10.450	*
EMA	7.875	0.813	0.000	6.485	9.682	*
PIL	5.240	0.525	0.000	4.327	6.383	*
SAC	7.654	0.797	0.000	6.288	9.412	*
PA	5.775	0.545	0.000	4.800	6.934	*
NA	3.597	0.319	0.000	3.009	4.260	*
SWLS	4.782	0.459	0.000	3.955	5.755	*
SLOPEAUT	-0.199	0.077	0.004	-0.355	-0.052	*
LNVAUT	-3.387	0.604	0.000	-4.835	-2.473	*
SLOPEEMA	-0.438	0.133	0.000	-0.703	-0.180	*
LNVEMA	-4.595	1.594	0.000	-8.981	-2.993	*
SLOPEPIL	-0.451	0.131	0.000	-0.711	-0.196	*
LNVPIL	-2.972	0.525	0.000	-4.199	-2.149	*
SLOPESAC	-0.174	0.132	0.094	-0.434	0.085	
LNVSAC	-3.791	0.792	0.000	-5.720	-2.639	*
SLOPELS	0.072	0.137	0.300	-0.197	0.339	
LNVLs	-3.161	0.601	0.000	-4.600	-2.245	*
SLOPENA	-0.097	0.131	0.230	-0.354	0.160	
LNVNA	-4.434	0.969	0.000	-6.884	-3.092	*
SLOPEPA	-0.632	0.120	0.000	-0.871	-0.399	*
LNVPa	-3.959	0.896	0.000	-6.219	-2.748	*
Intercepts						
BASTTDC	5.093	2.255	0.011	0.757	9.648	*
BASHKR	2.594	0.202	0.000	2.206	2.996	*
BASSSSC	0.810	0.105	0.000	0.603	1.017	*
Variances						
AUT	1.000	0.000	0.000	1.000	1.000	
EMA	1.000	0.000	0.000	1.000	1.000	
PIL	1.000	0.000	0.000	1.000	1.000	
SAC	1.000	0.000	0.000	1.000	1.000	
PA	1.000	0.000	0.000	1.000	1.000	
NA	1.000	0.000	0.000	1.000	1.000	
SWLS	1.000	0.000	0.000	1.000	1.000	
PHYSCON	1.000	0.000	0.000	1.000	1.000	
SLOPEAUT	1.000	0.000	0.000	1.000	1.000	
LNVAUT	1.000	0.000	0.000	1.000	1.000	
SLOPEEMA	1.000	0.000	0.000	1.000	1.000	
LNVEMA	1.000	0.000	0.000	1.000	1.000	
SLOPEPIL	1.000	0.000	0.000	1.000	1.000	
LNVPIL	1.000	0.000	0.000	1.000	1.000	
SLOPESAC	1.000	0.000	0.000	1.000	1.000	
LNVSAC	1.000	0.000	0.000	1.000	1.000	
SLOPELS	1.000	0.000	0.000	1.000	1.000	
LNVLs	1.000	0.000	0.000	1.000	1.000	
SLOPENA	1.000	0.000	0.000	1.000	1.000	
LNVNA	1.000	0.000	0.000	1.000	1.000	
SLOPEPA	1.000	0.000	0.000	1.000	1.000	
LNVPa	1.000	0.000	0.000	1.000	1.000	
Residual Variances						
BASTTDC	0.377	0.089	0.000	0.216	0.563	*
BASHKR	0.828	0.161	0.000	0.351	0.981	*

BASSSSC	0.577	0.236	0.000	0.057	0.931	*
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STD Standardization

Estimate	Posterior S.D.	One-Tailed P-Value	95% C.I.		Significance
			Lower 2.5%	Upper 2.5%	

Within-Level Standardized Estimates Averaged Over Clusters

SLOPEAUT AUT ON TSBASE	-0.003	0.002	0.070	-0.007	0.001	
SLOPEEMA EMA ON TSBASE	-0.009	0.002	0.001	-0.013	-0.004	*
SLOPEPIL PIL ON TSBASE	-0.008	0.002	0.001	-0.013	-0.003	*
SLOPESAC SAC ON TSBASE	-0.004	0.002	0.042	-0.009	0.000	
SLOPELS SWLS ON TSBASE	0.001	0.003	0.276	-0.004	0.006	
SLOPENA NA ON TSBASE	-0.002	0.002	0.226	-0.006	0.003	
SLOPEPA PA ON TSBASE	-0.012	0.002	0.000	-0.016	-0.007	*
LNVAUT AUT	0.159	0.013	0.000	0.136	0.184	*
LNVEMA EMA	0.157	0.011	0.000	0.138	0.180	*
LNVPIL PIL	0.185	0.022	0.000	0.150	0.230	*
LNVSAC SAC	0.129	0.016	0.000	0.100	0.167	*
LNVL SWLS	0.172	0.019	0.000	0.137	0.214	*
LNVA NA	0.093	0.010	0.000	0.080	0.119	*
LNVA PA	0.114	0.010	0.000	0.097	0.135	*

Between Level

PHYSCON BY BASHKR	2.955	1.238	0.000	0.955	5.874	*
BASSSSC	1.072	0.323	0.000	0.426	1.651	*
BASTTDC ON						
PHYSCON	1.200	0.461	0.006	0.292	2.110	*
SLOPEAUT	-0.167	0.406	0.337	-0.973	0.623	
LNVAUT	0.862	0.610	0.075	-0.333	2.067	
SLOPEEMA	0.255	0.454	0.284	-0.633	1.151	
LNVEMA	0.482	0.587	0.211	-0.707	1.586	
SLOPEPIL	-0.045	0.466	0.461	-0.970	0.866	
LNVPIL	0.263	0.536	0.312	-0.796	1.303	
SLOPESAC	-0.002	0.462	0.499	-0.916	0.905	
LNVSAC	0.109	0.566	0.423	-1.013	1.216	
SLOPELS	-0.033	0.445	0.470	-0.906	0.847	
LNVL	0.016	0.547	0.488	-1.061	1.088	
SLOPENA	0.042	0.411	0.459	-0.765	0.849	
LNVA	0.552	0.671	0.195	-0.699	1.934	
SLOPEPA	0.219	0.425	0.301	-0.613	1.060	
LNVA	-0.405	0.516	0.217	-1.400	0.620	

BASTTDC	ON						
AUT		-2.157	1.136	0.023	-4.522	-0.042	*
EMA		0.881	1.121	0.213	-1.321	3.092	
PIL		-0.097	0.878	0.456	-1.826	1.626	
SAC		-0.257	1.102	0.406	-2.437	1.899	
SWLS		0.126	0.796	0.437	-1.408	1.717	
NA		-0.818	1.020	0.192	-2.983	1.040	
PA		0.494	0.897	0.288	-1.231	2.290	
SEX		1.432	0.826	0.037	-0.144	3.109	
YOL		-0.248	0.108	0.011	-0.461	-0.036	*
BASAGEC90		-0.255	0.108	0.009	-0.468	-0.043	*
AUT	WITH						
SLOPEAUT		-0.112	0.067	0.038	-0.249	0.011	
LNVAUT		0.211	0.103	0.021	0.007	0.407	*
SLOPEAUT	WITH						
LNVAUT		-0.187	0.155	0.124	-0.470	0.132	
PIL	WITH						
SLOPEPIL		-0.282	0.089	0.000	-0.463	-0.113	*
LNVPIL		-0.119	0.115	0.151	-0.341	0.109	
SLOPEPIL	WITH						
LNVPIL		0.114	0.167	0.253	-0.222	0.428	
EMA	WITH						
SLOPEEMA		-0.126	0.075	0.040	-0.279	0.014	
LNVEMA		0.020	0.136	0.443	-0.241	0.294	
SLOPEEMA	WITH						
LNVEMA		-0.103	0.181	0.290	-0.441	0.263	
SAC	WITH						
SLOPESAC		-0.158	0.076	0.015	-0.314	-0.015	*
LNVSAC		-0.175	0.099	0.045	-0.357	0.030	
SLOPESAC	WITH						
LNVSAC		-0.014	0.170	0.468	-0.344	0.317	
SWLS	WITH						
SLOPELS		-0.222	0.115	0.022	-0.457	-0.005	*
LNVL		-0.252	0.147	0.054	-0.519	0.059	
SLOPELS	WITH						
LNVL		0.097	0.164	0.283	-0.232	0.406	
PA	WITH						
SLOPEPA		-0.039	0.085	0.318	-0.215	0.119	
LNVPA		0.116	0.124	0.180	-0.132	0.352	
SLOPEPA	WITH						
LNVPA		-0.104	0.167	0.273	-0.418	0.231	
NA	WITH						
SLOPENA		-0.136	0.084	0.048	-0.306	0.024	
LNUNA		0.320	0.102	0.003	0.103	0.503	*
SLOPENA	WITH						
LNUNA		-0.058	0.157	0.359	-0.359	0.254	
Means							
AUT		4.014	0.051	0.000	3.914	4.116	*
EMA		4.129	0.058	0.000	4.015	4.244	*
PIL		3.242	0.067	0.000	3.111	3.375	*
SAC		4.076	0.058	0.000	3.960	4.187	*
PA		3.314	0.063	0.000	3.191	3.438	*
NA		2.110	0.061	0.000	1.992	2.232	*
SWLS		3.688	0.082	0.000	3.525	3.848	*
SLOPEAUT		-0.199	0.077	0.004	-0.355	-0.052	*
LNVAUT		-3.387	0.604	0.000	-4.835	-2.473	*
SLOPEEMA		-0.438	0.133	0.000	-0.703	-0.180	*
LNVEMA		-4.595	1.594	0.000	-8.981	-2.993	*

SLOPEPIL	-0.451	0.131	0.000	-0.711	-0.196	*
LNVPIL	-2.972	0.525	0.000	-4.199	-2.149	*
SLOPESAC	-0.174	0.132	0.094	-0.434	0.085	
LNVSAC	-3.791	0.792	0.000	-5.720	-2.639	*
SLOPELS	0.072	0.137	0.300	-0.197	0.339	
LNVL	-3.161	0.601	0.000	-4.600	-2.245	*
SLOPENA	-0.097	0.131	0.230	-0.354	0.160	
LVNA	-4.434	0.969	0.000	-6.884	-3.092	*
SLOPEPA	-0.632	0.120	0.000	-0.871	-0.399	*
LVNPA	-3.959	0.896	0.000	-6.219	-2.748	*
Intercepts						
BASTTDC	19.378	8.657	0.011	2.922	37.202	*
BASHKR	18.495	0.677	0.000	17.164	19.825	*
BASSSSC	1.334	0.151	0.000	1.037	1.630	*
Variances						
AUT	0.224	0.047	0.000	0.147	0.332	*
EMA	0.275	0.056	0.000	0.183	0.403	*
PIL	0.383	0.077	0.000	0.259	0.559	*
SAC	0.283	0.058	0.000	0.189	0.416	*
PA	0.329	0.062	0.000	0.230	0.474	*
NA	0.344	0.062	0.000	0.246	0.486	*
SWLS	0.595	0.111	0.000	0.417	0.852	*
PHYSCON	1.000	0.000	0.000	1.000	1.000	
SLOPEAUT	1.000	0.000	0.000	1.000	1.000	
LVNAUT	1.000	0.000	0.000	1.000	1.000	
SLOPEEMA	1.000	0.000	0.000	1.000	1.000	
LVNEMA	1.000	0.000	0.000	1.000	1.000	
SLOPEPIL	1.000	0.000	0.000	1.000	1.000	
LNVPIL	1.000	0.000	0.000	1.000	1.000	
SLOPESAC	1.000	0.000	0.000	1.000	1.000	
LNVSAC	1.000	0.000	0.000	1.000	1.000	
SLOPELS	1.000	0.000	0.000	1.000	1.000	
LNVL	1.000	0.000	0.000	1.000	1.000	
SLOPENA	1.000	0.000	0.000	1.000	1.000	
LVNA	1.000	0.000	0.000	1.000	1.000	
SLOPEPA	1.000	0.000	0.000	1.000	1.000	
LVNPA	1.000	0.000	0.000	1.000	1.000	
Residual Variances						
BASTTDC	5.455	1.468	0.000	3.077	8.820	*
BASHKR	41.136	9.642	0.000	17.697	57.874	*
BASSSSC	1.554	0.669	0.000	0.153	2.713	*

R-SQUARE

Within-Level R-Square Averaged Across Clusters

Variable	Estimate	Posterior S.D.	One-Tailed P-Value	95% C.I.	
				Lower 2.5%	Upper 2.5%
AUT	0.115	0.013	0.000	0.090	0.141
EMA	0.155	0.014	0.000	0.128	0.184
PIL	0.143	0.015	0.000	0.116	0.174
SAC	0.155	0.016	0.000	0.124	0.186
PA	0.174	0.015	0.000	0.145	0.202
NA	0.145	0.014	0.000	0.120	0.177
SWLS	0.133	0.013	0.000	0.107	0.158

Between Level

Variable	Estimate	Posterior S.D.	One-Tailed P-Value	95% C.I.	
				Lower 2.5%	Upper 2.5%
BASTTDC	0.623	0.089	0.000	0.437	0.784
BASHKR	0.172	0.161	0.000	0.019	0.649
BASSSSC	0.423	0.236	0.000	0.069	0.943

TECHNICAL 8 OUTPUT

TECHNICAL 8 OUTPUT FOR BAYES ESTIMATION

CHAIN BSEED
1 0
2 285380

ITERATION	POTENTIAL SCALE REDUCTION	PARAMETER WITH HIGHEST PSR
100	3.841	19
200	3.391	19
300	2.801	3
400	3.044	7
500	3.793	3
600	2.677	3
700	1.901	7
800	1.648	7
900	1.526	28
1000	1.529	53
1100	1.584	65
1200	1.444	65
1300	1.304	65
1400	1.390	95
1500	1.517	68
1600	1.507	71
1700	1.588	71
1800	1.634	71
1900	1.636	71
2000	1.638	71
2100	1.383	71
2200	1.299	11
2300	1.232	17
2400	1.238	17
2500	1.251	17
2600	1.204	19
2700	1.193	19
2800	1.220	19
2900	1.237	17
3000	1.245	17
3100	1.233	19
3200	1.188	19
3300	1.142	19
3400	1.126	19
3500	1.112	19
3600	1.108	89
3700	1.091	19
3800	1.097	19
3900	1.107	19
4000	1.115	19
4100	1.104	19
4200	1.097	19
4300	1.121	9
4400	1.159	59
4500	1.184	59
4600	1.147	59
4700	1.121	59
4800	1.095	59
4900	1.096	9
5000	1.104	9
5100	1.107	9
5200	1.129	9
5300	1.152	9
5400	1.166	9
5500	1.172	9
5600	1.197	9
5700	1.193	9
5800	1.200	9
5900	1.200	9
6000	1.199	9
6100	1.204	9
6200	1.196	9
6300	1.194	9
6400	1.185	9

6500	1.162	9
6600	1.149	9
6700	1.152	9
6800	1.124	9
6900	1.101	9
7000	1.077	9
7100	1.054	9
7200	1.051	9
7300	1.055	9
7400	1.051	13
7500	1.054	13
7600	1.044	13
7700	1.042	9
7800	1.046	9
7900	1.040	9
8000	1.040	9
8100	1.039	13
8200	1.052	13
8300	1.062	13
8400	1.067	13
8500	1.064	13
8600	1.068	13
8700	1.064	13
8800	1.067	13
8900	1.071	13
9000	1.070	13
9100	1.054	13
9200	1.055	13
9300	1.062	13
9400	1.060	13
9500	1.050	13
9600	1.044	13
9700	1.043	13
9800	1.046	13
9900	1.056	13
10000	1.068	13
10100	1.077	13
10200	1.084	13
10300	1.077	13
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TECHNICAL 5 OUTPUT

DIAGRAM INFORMATION

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

Beginning Time: 12:11:02
Ending Time: 19:27:50
Elapsed Time: 07:16:48

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