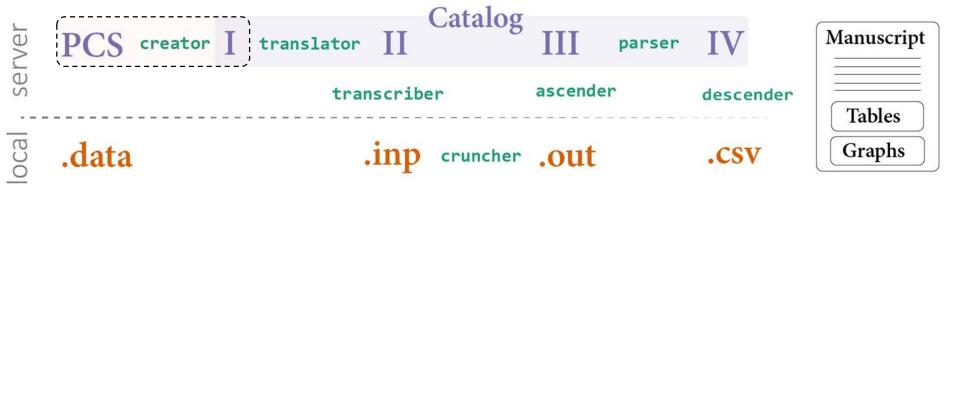
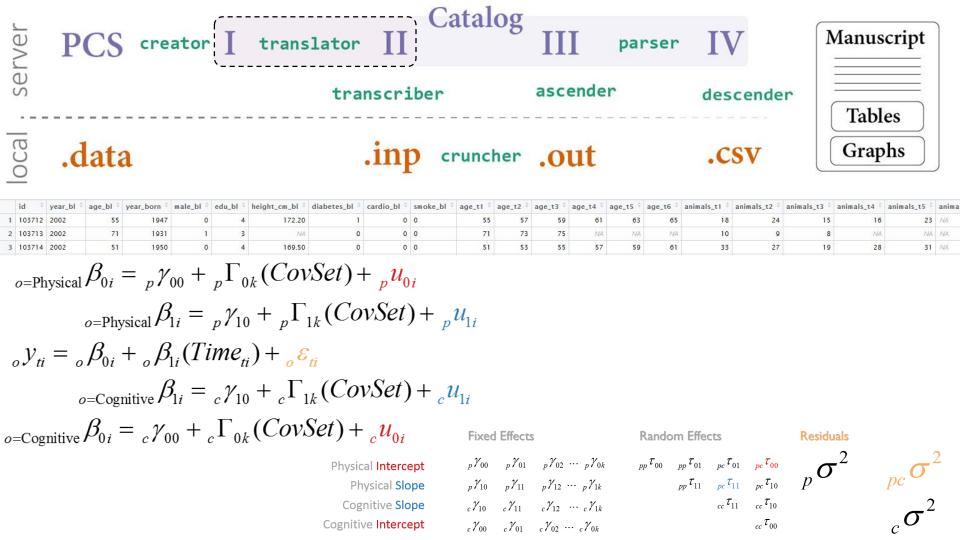


		eas	elsa	hrs	ilse	lasa	map	nuage	octo	satsa
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PCS creator I translator II

ascender

descender

transcriber

cruncher .Out

Catalog

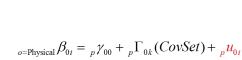
Graphs

Tables

Manuscript



M Mplus - [0000007-b1-e	A2 A4	3,322 3,333	0.000	999,000	323, 323 323, 333								
E Ele Edit Yew Moli					62 84	3,333	0.000	999,000	333, 222				
		3A	-2,222	0.009	-0.053 -0.673	0.300							
MODEL FIT INFORMA	TION					11.158	2.490 0.116	4,458	0.222				
Number of Free Pa			27		Recipus Vector	200							
wanner or tree to	Tame Colo		47		82	1.191 1.191	1.03s	8.00	5.40				
Loglikelihood						79.335			5.333				
Deganous and					M	3,191	D.585 E.642	21.089	9, 939				
HO Valu	10		-26716.001		78. 78	3.222	0.000	1.409	9.131				
	ing Correction	n Factor	1.9215		50	3,272	0.041	1.692	9.332				
for h	LR				Pawwell count	Januaraters 7,124	0.046	2.604	0.007				
							0.222	0.000	2, 223				
Information Crite	ria				A AGO AD	-3.336	0,034	-0.174	2.362				
Akaike	(ATC)		53486.002		QUALITY IN MINE	REGAL SEPTIES							
	n (BIC)		53658.317		medictor	water for the	DETERMINA	E MISSING	1	2686-59			
	Size Adjusted		53572.522		roma e	e mailest to	interes ele	revoluna					
(n* -	(n + 2) / 24))			COMPTRACT, THE	WALK OF HOME	. 88.877.758						
						Source 19	Lower S.M.	Source of	Saturate	Trees to	There you	Spec M	
					28 ON	2.224	0.00	0.029	3.121	0.001	0.021	-2.222	
MODEL RESULTS					800 SG 880937 OR	-2.323 2.322	0.522	0.029	-3.51¢	-0.009 T207.3	0,900	-1, 118 2, 123	
				Two-Tailed		3.322	4.444	0.022	3.161	E.Car	9,949	0.043	
	Estimate	3.E.	Est./S.E.	P-Value	EA 001	-2,222	-0.003	-0.000	-2,222	0.000	0,000	9,022	
					SEC SE	-3.334	-0.000	-0.003	-3.331	1000.2	0.001	3.332	
IA ON													
AGE BL	-0.023 -0.016	0.001	-20.819 -3.732	0.000	KOR, NO.	-3.154	-0.350	-0.166	-1,121	-1,300	-0.095	-2.187	
EDU_BL HEIGHT CM	0.016	0.004	15.963	0.000	2801917 (St.	0.150	6.104	0.000	6300	11376	0.050	6398	
HEIGHT CH	0.025	0.002	13.963	0.000	98 (26 8/8 N)	-1.121	1.123	11,000	4.000	-6.09	0.00	1.01	
SA ON						7.767	4.555				0.01%		
AGE BL	-0.001	0.000	-2.325	0.020	H097,0	1.114	1,132	0.023	1 114	1.115	0.000	0.001	
EDU BL	-0.001	0.001	-1.310	0.190	DA HITTI	2.122	0.617	0.018	3.555	6.695	0.017	2.122	
HEIGHT_CM_	0.000	0.000	0.639	0.523	10	-3.325	6.035	0.038	7,147	E.251 E.05	0.272	2, 212 2, 122	
IB ON					56 N21	10.0		-243	-0.027	-9.009	9.020	0.025	
AGE BL	-0.123	0.014	-8.820	0.000	100	-0.0		.106	-0.005	0.010	0.006	0.007	
EDG BL	-0.810	0.064	-12,740	0.000	IB 821								
HEIGHT_CM_	0.102	0.020	5.213	0.000	55	-0.0	22 -0	.017	-0.004	0.010	0.015	0.017	
SIN ON					A2 N71								
AGE BL	-0.017	0.003	-5.787	0.000	62	-0.0	84 -9	J160	-0.056	-0.005	0.045	0.055	
EDU BL	-0.010	0.013	-0.776	0.438	34 875	TE ST							
HEIGHT CM	-0.004	0.004	-0.942	0.346	94	-0.0	96 -0	.166	-0.056	-0.005	0.045	0.055	
					Intercepts A2	0.0		.100	0.000	0.000	0.000	0,000	
IA WITH					At	0.0	00 0	.100	0.000	0.010	9,900	0.000	
SA	0.000	0.009	0.039	0.968	B2	0.0	00 0	.101	0.000	0.010	9.000	0.000	
IB SB	0.143	0.065	2.189	0.029	13.	19.9	51 -0	-752		-9.239	9.217		
00	3.000	0.009	0.039	0.968	GA.	-9.1	53 -0	.156	-0.130	-0.040	0.050	0.076	
SA WITH					13 53	-0.1	49 0	.717	0.517	15.550	21.290	3,100	
IB WITH	-0.009	0.017	-0.498	0.618	Seriousl Val								
53	0.000	0.003	0.008	0.993	A2	0.0		.020	0.005	0.651	0.076	0.061	
					24 82	14.5	30 3	-101 -101	0.035	0.051	0.076	0.061	
IB WITH					84	14.9	02 17	-404	15,650	16,916	39,225	19,472	
58	0.000	0.009	0.039	0.968	1A	-0.0	22 0	.105	0.018	0.018	0.158	0.171	
					88. 18	-0.0 13.0	02 -0 05 13	.101	0.000	15.232	9,007	16,912	
A2 WITH					85	-0.0		.011	0.002	0.070	0.138	0.151	
B2	-0.005	0.031	-0.177	0.860	New/Addition								
					B DAID	0.0	05 0	.033	0.046	0.124	0.200	0.215	



Cognitive Slope

Cognitive Intercept

 $_{o=\text{Physical}}\beta_{1i} = {}_{p}\gamma_{10} + {}_{p}\Gamma_{1k}(CovSet) + {}_{p}u_{1i}$

 $_{o}y_{ti} = _{o}\beta_{0i} + _{o}\beta_{1i}(Time_{ti}) + _{o}\varepsilon_{ti}$

 $_{o=\text{Cognitive}}\beta_{1i} = {}_{c}\gamma_{10} + {}_{c}\Gamma_{1k}(CovSet) + {}_{c}u_{1i}$

 $_{o=\text{Cognitive}} \beta_{0i} = {}_{c} \gamma_{00} + {}_{c} \Gamma_{0k} (CovSet) + {}_{c} \mathbf{u}_{0i}$

Fixed Effects Physical Intercept Physical Slope

55

51

 $_{c}\gamma_{10}$ $_{c}\gamma_{11}$ $_{c}\gamma_{12}$ $_{c}\gamma_{1k}$ $_{c}\gamma_{00}$ $_{c}\gamma_{01}$ $_{c}\gamma_{02}$ $_{\cdots}$ $_{c}\gamma_{0k}$

1947

1931

1950

Random Effects

172.20

169.50

cardio_bl

0 0

55

51

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animals_t2

24

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19

A4 WITH 0.000 0.000 0.000 0.110 0.100 0.110 0.100 0.110 0.100 0.110 0.100 0.110 0.100 0.110 0.100 0.110 0.100 0.110 0.100 0.110 0.100 0.110 0.100 0.110 0.100 0.11

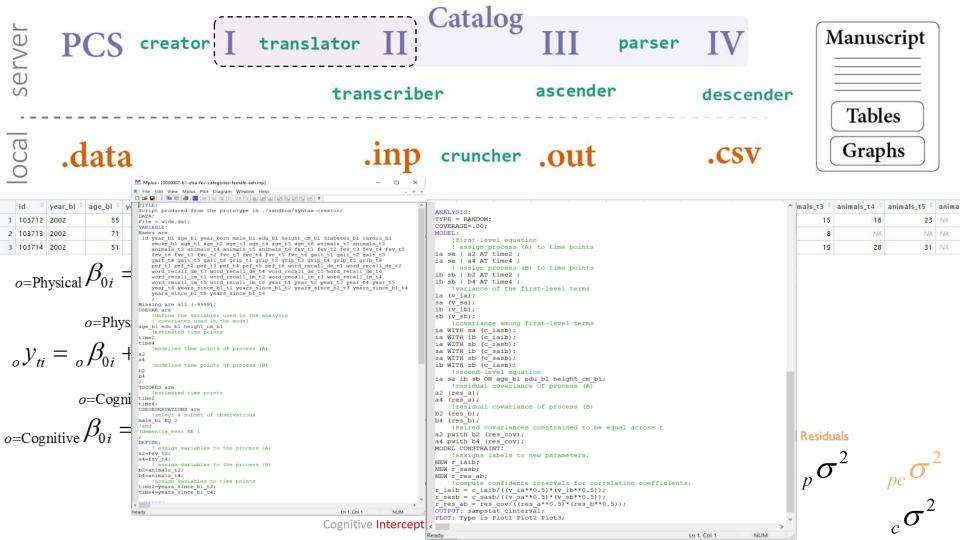
16

28

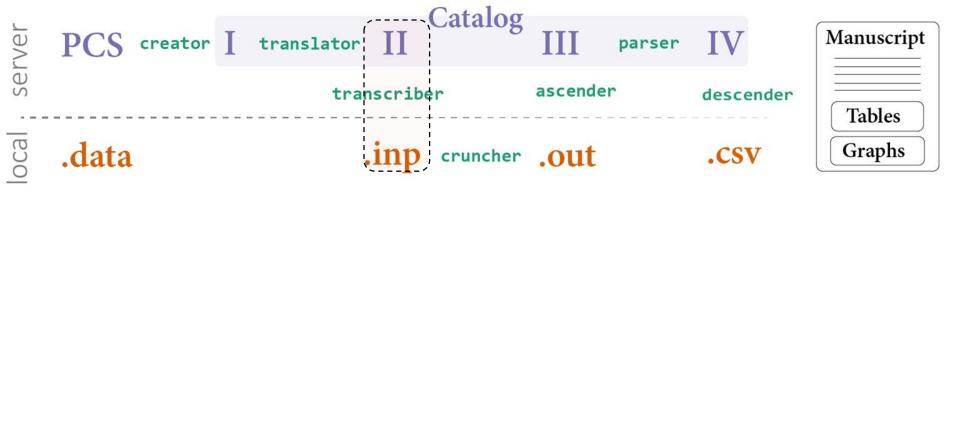
23 NA

31 N/A

1 103712 2002 3 103714 2002



```
Mplus - [0000007-b1-elsa-fev-categories-female-aeh.inp]
                                                                           File Edit View Mplus Plot Diagram Window Help
                                                                               - 6 x
Script produced from the prototype in ./sandbox/syntax-creator/
 File = wide.dat;
 VARIABLE:
 Names are
  id year bl age bl year born male bl edu bl height cm bl diabetes bl cardio bl
     smoke bl age t1 age t2 age t3 age t4 age t5 age t6 animals t1 animals t2
     animals t3 animals t4 animals t5 animals t6 fev t1 fev t2 fev t3 fev t4 fev t5
     fev_t6 fvc_t1 fvc_t2 fvc_t3 fvc_t4 fvc_t5 fvc_t6 gait_t1 gait_t2 gait_t3
    gait t4 gait t5 gait t6 grip t1 grip t2 grip t3 grip t4 grip t5 grip t6 pef t1 pef t2 pef t3 pef t4 pef t5 pef t6 word recall de t1 word recall de t5 word recall de t5 word recall de t5 word recall de t6 word recall de t6
     word recall im t1 word recall im t2 word recall im t3 word recall im t4
     word recall im t5 word recall im t6 year t1 year t2 year t3 year t4 year t5
     year t6 years since bl t1 years since bl t2 years since bl t3 years since bl t4
    years since bl t5 years since bl t6
 Missing are all (-9999);
                                                 ANALYSIS:
 USEVAR are
                                                 TYPE = RANDOM;
    !define the variables used in the analysis
    ! covariates used in the model
                                                 COVERAGE=.00;
 age bl edu bl height cm bl
                                                 MODEL:
    !estimated time points
                                                      !first-level equation
 time4
                                                      ! assign process (A) to time points
    !modelled time points of process (A)
                                                 ia sa | a2 AT time2 ;
                                                 ia sa | a4 AT time4 ;
 a4
                                                      ! assign process (B) to time points
     !modelled time points of process (B)
 b2
                                                 ib sb | b2 AT time2 ;
                                                 ib sb | b4 AT time4 ;
                                                      !variance of the first-level terms
 TSCORES are
                                                 ia (v ia);
    !estimated time points
                                                 sa (v sa);
 time4;
                                                 ib (v ib);
 USEOBSERVATIONS are
                                                 sb (v sb);
   !select a subset of observations
                                                      !covariance among first-level terms
 male_bl EQ 0
 !and
                                                 ia WITH sa (c iasb);
 !dementia ever NE 1
                                                 ia WITH ib (c iaib);
                                                 ia WITH sb (c iasb);
 DEFINE:
                                                 sa WITH ib (c saib);
   ! assign variables to the process (A)
 a2=fev t2;
                                                 sa WITH sb (c sasb);
 a4=fev t4;
                                                 ib WITH sb (c iasb);
   ! assign variables to the process (B)
                                                      !second-level equation
 b2=animals t2:
 b4=animals t4;
                                                 ia sa ib sb ON age bl edu bl height cm bl;
   !assign variables to time points
                                                      !residual covariance of process (A)
 time2=years since bl t2;
                                                 a2 (res a);
 time4=years_since_bl_t4;
                                                 a4 (res a);
                                                      !residual covariance of process (B)
                                                 b2 (res b);
                                                 b4 (res b);
                                                      !Paired covariances constrained to be equal across t
                                                 a2 pwith b2 (res cov);
                                                 a4 pwith b4 (res cov);
                                                 MODEL CONSTRAINT:
                                                      !assigns labels to new parameters;
                                                 NEW r iaib;
                                                 NEW r sasb;
                                                 NEW r res ab;
                                                     !compute confidence intervals for correlation coefficients;
                                                 r iaib = c iaib/((v ia**0.5)*(v ib**0.5));
                                                 r sasb = c sasb/((v = x^*0.5)*(v = x^*0.5);
                                                 r res ab = res cov/((res a**0.5)*(res b**0.5));
                                                 OUTPUT: sampstat cinterval;
                                                 PLOT: Type is Plot1 Plot2 Plot3;
                                               Ready
                                                                                                                           Ln 1, Col 1
                                                                                                                                              NUM
```



descender

Graphs

Manuscript

transcriber

ascender

cruncher



M Mplus - [0000007-ы1-ы	sa-fev-categories-fen	nale-ach.out)			AS AS	0.000	1.000	998.000	988.000				
Ele Edit	Yiew Mpk	s Plot Diagram V	Vindow Help			82 83	2,000	1,000	995,000	985,000				
D 📽 🔛 🗵	B B P		* (%) (M) (M)	MERMIN	(A) ?	IA 20	-1.230 +3.000	1.469	-1.665 -1.673	1.309 0.501				
MODEL F	IT INFORMS	ATION				10 10	15,550	1.090	6.450 2.267	2,007				
Number o	of Free Pa	rameters		27		Dumidest Veniero		2.014	3,215	1,001				
Loglike	lihood					8.0 0.2 841	0.051 16.900 18.908	1.116 1.103 1.184	7.215 21.641 21.661	0.001 0.000 0.000				
	HO Valu			-26716.001		ZA SN	0.000	2.042	2.065	1.137				
		e Ling Correction		1,9215		18 50	0.000	1.697	17,774	1.091				
	for h		LACCOL	1.9613		Morrison, Long D	1400000							
						8 3335	0.324	2,040	2,604	1,007				
Informat	tion Crite	eria				R SES AS	-0.005	1.034	-5.174	1.002				
	Akaike			53486.002		QUALITY OF STREET	CAL RESTERS							
	Sample-	n (BIC) Size Adjusted		53650.317 53572.522		Committee Marie of	moor for the smallest to	Information Except edg	Mottus ervalue)	1.	3955 99			
	(D. :	(n + 2) / 24)				1205F10050R 1913F1	ALC IN MORE	HANKEY.						
							LOWE .50	Lower 1.50	Lover 5	Detinate	Opper 50	2pper 2.50	Opper .5h	
						EA 00	40,000	+0.005	-2.005	+0.022	40.121	a0.121	+2.000	
MODEL RE	ESULTS					ANE NO. 8777 NO. 882517 OK	-0.324 0.323	-0.100 -0.100 9.102	-1.003 -1.003	-0.01k	0.021	-0.000 -0.000 0.000	-0.100 0.100	
					Two-Tailed		W-142	v.102	1.022	0.025	V.321	V. 120	4.007	
		Estimate	S.E.	Est./S.E.	P-Value	AGG_3G 8772_4G	-0.001 -0.004	-0.001 -0.008	-2.000 -1.000	+0.000 -0.000	0.000	0,000	2,000	
	-					KESSES OK	9,003	9.500	2.003	0.000	0.931	0.001	2.001	
IA AGE	DT.	-0.023	0.001	-20.819	0.000	78 ON ON	-0.109	-9,250	-7.145	-9.127	9,121	-0.795	-9.007	
EDU		-0.023	0.001	-3.732	0.000	8010 NO. 05 880087 OK	-0.150 -0.472 0.002	-9,250 -9,634 0,564	-2.348 -1.914	-0.123 -0.213	-0.755 0.134	-0.198 -0.665 0.140	-2.007 -2.666 2.597	
	SHT_CM	0.025	0.002	15.963	0.000	881017 OK	w. 952	9.584	1.071	0.192	0.134	9.140	1.352	
						800 80 807 86	-9, 925 -9, 942	-0.503 -0.505	-2.022 -5.025	-0.017	0,012	-9.111 9.115	-0.000	
SA AGE		-0.001	0.000	-2.325	0.020	800767_OK_	10,924	9,112	-1.093	1.004	0,333	97.004	9.007	
EDU		-0.001	0.001	-1.310	0.190	IA MITTE	9.522	0.557	2.121	0.000	0.223	9.131	9.129	
	GHT_CM_	0.000	0.000	0.639	0.523	10 30	-0.025 -0.025	0.015	5.036 -2.031	0.143	0.251	0, 272 0, 272	2,212	
TB	ON					IA MITS	-0.0		.043	-0.037	-0.009	0.020	0.025	
AGE		-0.123	0.014	-8.820	0.000	20	-0.0	29 -0	.006	-0.005	0.000	0.036	0.007	è
EDU		-0.810	0.064	-12.740	0.000	IB WITH								
HEIG	SHT_CM	0.102	0.020	5.213	0.000	, sa	-0.00	12 -0	.017	-0.014	0.000	0.015	0.017	0
SB	ON					A2 WITI	-0.0		.066	-0.056	-0.005	0.045	0.055	
AGE		-0.017	0.003	-5.787	0.000			-		-7.036	-4.103	0.043	0.000	,
EDU		-0.010	0.013	-0.776	0.438	A4 WITS	-9.0	14 -1	.066	-0.056	-0.005	0.045	0.055	
MEIG	GHT_CM_	-0.004	0.004	-0.942	0.346	Intercepts								
IA	WITH					A2	0.0	00 0	.000	0.000	0.000	0.000	0.000	
SA		0.000	0.009	0.039	0.968	A4 812	0.0	00 0	.000	0.000	0.000	0.000	0.000	6
IB		0.143	0.065	2.189	0.029	14 ZA	0.0	00 0	.000 .791	0.000	0.000	0.000	0.000	-
SB		0.000	0.009	0.039	0.968	pa.	-0.1	13 -0	-156	-0.133	-0.040	0.058		
SA	WITH					18	6.5		.717	9.816 9.517	15.558	21.299	22,399	24
IB	WATE	-0.009	0.017	-0.498	0.618	Remiduel Veri								
SB		0.000	0.003	0.008	0.993	2.2	9.0	10 0	.020	0.025	0.051	0.076	0.081	-
						84 H2	14.9		.020 .404	0.025	0.051	0.076	0.081 18.472	15
IB SB	WITH	0.000	0.009	0.039	0.968	B4 75	14.9	12 15	.604	15.650	16.938	18.225	18.472	18
58		0.000	0.009	0.039	0.968	EA.	-0.0	12 -6	.001	0.000	0.003	0.007	0.007	
N2	WITH					10	13.0		.011	0.002	0.070	0.138	0.151	11
B2		-0.005	0.031	-0.177	0.860	New/Additional								
24						B DAID	0.0	25 0	.033	0.048	0.124	0.200	0.215	6
	WITH	-0.005	0.031	-0.177	0.860	R (AAR) R 200 AB	-0.5		.636	-0.365	0.002	0.369	0.439	-

```
File Edit View Molus Plot Diagram Window Help
                                                                            - 6 x
                                                                                                                                       Mplus - [0000007-b1-elsa-fev-categories-female-aeh.out]
                                                                                                                                                                                                                                                          0.000
0.000
0.000
0.000
0.277
0.059
999.000
                                                                                                                                                                                                                                                                 999.000
                                                                                                                                                                                                                                                                          999.000
                                                                                                                                       <u>File Edit View Mplus Plot Diagram Window Help</u>
                                                                                                                                                                                                                                                 0.000
-0.238
-0.040
 Script produced from the prototype in ./sandbox/syntax-creator/
                                                                                                                                                                                                                                   84
                                                                                                                                                                                                                                                                  -0.861
-0.673
                                                                                                                                       File = wide.dat;
                                                                                                                                                                                                                                                 15.558
                                                                                                                                                                                                                                                          3.490
                                                                                                                                                                                                                                                                   4.458
                                                                                                                                        MODEL FIT INFORMATION
 VARIABLE:
 Names are
                                                                                                                                                                                                   27
                                                                                                                                                                                                                                 Residual Variances
                                                                                                                                        Number of Free Parameters
  id year bl age bl year born male bl edu bl height cm bl diabetes bl cardio bl
                                                                                                                                                                                                                                                          0.016
0.783
0.783
0.042
0.002
0.857
0.041
                                                                                                                                                                                                                                                 0.051
                                                                                                                                                                                                                                                                  3.215
     smoke bl age t1 age t2 age t3 age t4 age t5 age t6 animals t1 animals t2
                                                                                                                                        Loglikelihood
     animals t3 animals t4 animals t5 animals t6 fev t1 fev t2 fev t3 fev t4 fev t5
                                                                                                                                                                                                                                                 16.938
0.088
0.003
                                                                                                                                                                                                                                                                  21.641
                                                                                                                                                                                                                                                                  2.068
1.486
17.774
     fev_t6 fvc_t1 fvc_t2 fvc_t3 fvc_t4 fvc_t5 fvc_t6 gait_t1 gait_t2 gait_t3
     gait t4 gait t5 gait t6 grip t1 grip t2 grip t3 grip t4 grip t5 grip t6
                                                                                                                                                     HO Value
                                                                                                                                                                                          -26716.001
     pef t1 pef t2 pef t3 pef t4 pef t5 pef t6 word recall de t1 word recall de t2
                                                                                                                                                                                                                                                                   1.692
                                                                                                                                                     HO Scaling Correction Factor
                                                                                                                                                                                              1.9215
     word recall de t3 word recall de t4 word recall de t5 word recall de t6
                                                                                                                                                       for MLR
                                                                                                                                                                                                                                New/Additional Para
     word recall im t1 word recall im t2 word recall im t3 word recall im t4
     word recall im t5 word recall im t6 year t1 year t2 year t3 year t4 year t5
                                                                                                                                                                                                                                   R SASB
                                                                                                                                                                                                                                                          0.223
                                                                                                                                        Information Criteria
     year t6 years since bl t1 years since bl t2 years since bl t3 years since bl t4
    years_since_bl_t5 years_since_bl_t6
                                                                                                                                                                                                                                QUALITY OF NUMERICAL RESULTS
                                                                                                                                                    Akaike (AIC)
                                                                                                                                                                                           53486.002
 Missing are all (-9999);
                                                                                                                                                    Bavesian (BIC)
                                                                                                                                                                                          53658.317
                                                                                                                                                                                                                                                                                0.3608-09
                                                                                                                                                                                                                                    Condition Number for the Information Matrix
                                                ANALYSTS:
 USEVAR are
                                                                                                                                                                                                                                      (ratio of smallest to largest eigenvalue
                                                                                                                                                     Sample-Size Adjusted BIC
                                                                                                                                                                                          53572.522
     !define the variables used in the analysis
                                                TYPE = RANDOM;
                                                                                                                                                       (n* = (n + 2) / 24)
    ! covariates used in the model
                                                COVERAGE=.00:
                                                                                                                                                                                                                                CONFIDENCE INTERVALS OF MODEL RESULTS
 age bl edu bl height cm bl
                                                MODEL:
                                                                                                                                                                                                                                              Lower .5% Lower 2.5% Lower 5% Estimate Upper 5% Upper 2.5% Upper .5%
     !estimated time points
                                                    !first-level equation
 time2
                                                                                                                                                                                                                                      ON
                                                                                                                                                                                                                                   AGE_BL
EDU_BL
 time4
                                                    ! assign process (A) to time points
                                                                                                                                        MODEL RESULTS
     !modelled time points of process (A)
                                                ia sa | a2 AT time2;
                                                                                                                                                                                                                                   HEIGHT CM
                                                ia sa | a4 AT time4 ;
                                                                                                                                                                                                        Two-Tailed
 a4
                                                                                                                                                                                                                                       ON
                                                                                                                                                                 Estimate
                                                                                                                                                                                   S.E. Est./S.E.
                                                                                                                                                                                                         P-Value
                                                                                                                                                                                                                                                                                     0.000
                                                    ! assign process (B) to time points
     !modelled time points of process (B)
                                                                                                                                                                                                                                                                  -0.003
 b2
                                                ib sb | b2 AT time2 ;
                                                                                                                                                                                                                                   HEIGHT CM
 b4
                                                                                                                                          ΙA
                                                                                                                                                       ON
                                                ib sb | b4 AT time4 ;
                                                                                                                                                                                                                                 IB
                                                                                                                                             AGE BL
                                                                                                                                                                    -0.023
                                                                                                                                                                                  0.001
                                                                                                                                                                                             -20.819
                                                                                                                                                                                                             0.000
                                                                                                                                                                                                                                   AGE BL
                                                                                                                                                                                                                                                -0.159
                                                                                                                                                                                                                                                                                     -0.100
-0.705
                                                                                                                                                                                                                                                                                              -0.095
                                                    !variance of the first-level terms
 TSCORES are
                                                                                                                                             EDU BL
                                                                                                                                                                    -0.016
                                                                                                                                                                                  0.004
                                                                                                                                                                                              -3.732
                                                                                                                                                                                                             0.000
                                                                                                                                                                                                                                                                   -0.914
                                                                                                                                                                                                                                                                                                        0.646
                                                                                                                                                                                                                                   HEIGHT CM
                                                                                                                                                                                                                                                0.052
                                                                                                                                                                                                                                                          0.064
    !estimated time points
                                                ia (v ia);
                                                                                                                                                                                              15.963
                                                                                                                                             HEIGHT CM
                                                                                                                                                                    0.025
                                                                                                                                                                                  0.002
                                                                                                                                                                                                             0.000
 time2
                                                sa (v sa);
                                                                                                                                                                                                                                   AGE_BL
EDU BL
                                                                                                                                                                                                                                                -0.025
                                                                                                                                                                                                                                                                   -0.022
                                                                                                                                                                                                                                                                            -0.017
                                                                                                                                                                                                                                                                                     -0.012
 time4;
                                                ib (v ib);
                                                                                                                                                                                                                                                -0.043
                                                                                                                                                                                                                                                                   -0.031
 HISEOBSERVATIONS are
                                                                                                                                                                                                                                    REIGHT CM
                                                sb (v sb);
    !select a subset of observations
                                                                                                                                             AGE BL
                                                                                                                                                                    -0.001
                                                                                                                                                                                  0.000
                                                                                                                                                                                              -2.325
                                                                                                                                                                                                             0.020
                                                     !covariance among first-level terms
 male bl EQ 0
                                                                                                                                             EDU BL
                                                                                                                                                                    -0.001
                                                                                                                                                                                  0.001
                                                                                                                                                                                              -1.310
                                                                                                                                                                                                             0.190
                                                                                                                                                                                                                                                -0.022
                                                                                                                                                                                                                                                                  -0.014
0.036
                                                                                                                                                                                                                                                                            0.000
                                                                                                                                                                                                                                                                                                        0.023
                                                ia WITH sa (c iasb);
 !and
                                                                                                                                             HEIGHT CM
                                                                                                                                                                    0.000
                                                                                                                                                                                  0.000
                                                                                                                                                                                               0.639
                                                                                                                                                                                                             0.523
 !dementia ever NE 1
                                                ia WITH ib (c iaib);
                                                                                                                                                                                                                                  SA
                                                                                                                                                                                                                                          WITH
                                                ia WITH sb (c iasb);
                                                                                                                                                                                                                                    IB
                                                                                                                                                                                                                                                   -0.053
                                                                                                                                                                                                                                                              -0.043
                                                                                                                                                                                                                                                                         -0.037
                                                                                                                                                                                                                                                                                    -0.009
                                                                                                                                                                                                                                                                                               0.020
                                                                                                                                                                                                                                                                                                                    0.036
 DEFINE:
                                                                                                                                                                                                                                                   -0.009
                                                                                                                                                                                                                                                              -0.006
                                                                                                                                                                                                                                                                         -0.005
                                                                                                                                                                                                                                                                                                         0.007
                                                                                                                                             AGE BL
                                                                                                                                                                    -0.123
                                                                                                                                                                                  0.014
                                                                                                                                                                                              -8.820
                                                                                                                                                                                                             0.000
                                                                                                                                                                                                                                    SB
   ! assign variables to the process (A)
                                                sa WITH ib (c saib);
                                                                                                                                             EDU BL
                                                                                                                                                                    -0.810
                                                                                                                                                                                  0.064
                                                                                                                                                                                             -12.740
                                                                                                                                                                                                             0.000
 a2=fev t2:
                                                sa WITH sb (c sasb);
                                                                                                                                                                                                                                 IB
                                                                                                                                                                                                                                         WITH
                                                                                                                                                                     0.102
                                                                                                                                                                                  0.020
                                                                                                                                                                                               5.213
                                                                                                                                                                                                             0.000
 a4=fev t4;
                                                                                                                                             HEIGHT CM
                                                                                                                                                                                                                                    SB
                                                                                                                                                                                                                                                   -0.022
                                                                                                                                                                                                                                                             -0.017
                                                                                                                                                                                                                                                                        -0.014
                                                                                                                                                                                                                                                                                    0.000
                                                                                                                                                                                                                                                                                              0.015
                                                                                                                                                                                                                                                                                                         0.017
                                                                                                                                                                                                                                                                                                                    0.023
                                                ib WITH sb (c iasb);
    ! assign variables to the process (B)
                                                    !second-level equation
                                                                                                                                                                                                                                  A2
                                                                                                                                                                                                                                         WITH
 b2=animals t2:
                                                                                                                                                                                                                                    B2
                                                                                                                                                                                                                                                   -0.084
                                                                                                                                                                                                                                                              -0.066
                                                                                                                                                                                                                                                                         -0.056
                                                                                                                                                                                                                                                                                   -0.005
                                                                                                                                                                                                                                                                                              0.045
                                                                                                                                                                                                                                                                                                         0.055
                                                                                                                                                                                                                                                                                                                    0.074
 b4=animals t4;
                                                ia sa ib sb ON age bl edu bl height cm bl;
                                                                                                                                             AGE BL
                                                                                                                                                                    -0.017
                                                                                                                                                                                  0.003
                                                                                                                                                                                              -5.787
                                                                                                                                                                                                             0.000
    !assign variables to time points
                                                    !residual covariance of process (A)
                                                                                                                                                                                                                                  A4
                                                                                                                                                                                                                                         WITH
                                                                                                                                             EDU BL
                                                                                                                                                                    -0.010
                                                                                                                                                                                  0.013
                                                                                                                                                                                              -0.776
                                                                                                                                                                                                             0.438
 time2=years since bl t2;
                                                                                                                                                                                                                                                   -0.084
                                                                                                                                                                                                                                                              -0.066
                                                                                                                                                                                                                                                                         -0.056
                                                                                                                                                                                                                                                                                               0.045
                                                                                                                                                                                                                                                                                                         0.055
                                                                                                                                                                                                                                                                                                                    0.074
                                                a2 (res a);
                                                                                                                                             HEIGHT CM
                                                                                                                                                                    -0.004
                                                                                                                                                                                  0.004
                                                                                                                                                                                              -0.942
                                                                                                                                                                                                             0.346
 time4=years since bl t4;
                                                a4 (res a);
                                                                                                                                                                                                                                  Intercepts
                                                                                                                                                                                                                                                   0.000
                                                                                                                                                                                                                                                              0.000
                                                                                                                                                                                                                                                                         0.000
                                                                                                                                                                                                                                                                                    0.000
                                                                                                                                                                                                                                                                                                         0.000
                                                     !residual covariance of process (B)
                                                                                                                                          IA
                                                                                                                                                     WITH
                                                                                                                                                                                                                                    A4
                                                                                                                                                                                                                                                    0.000
                                                                                                                                                                                                                                                                         0.000
                                                b2 (res b);
                                                                                                                                             SA
                                                                                                                                                                     0.000
                                                                                                                                                                                  0.009
                                                                                                                                                                                               0.039
                                                                                                                                                                                                             0.968
                                                                                                                                                                                                                                                    0.000
                                                                                                                                                                                                                                                                         0.000
                                                                                                                                                                                                                                    B4
                                                                                                                                                                                                                                                    0.000
                                                                                                                                                                                                                                                                         0.000
                                                                                                                                             IB
                                                                                                                                                                     0.143
                                                                                                                                                                                  0.065
                                                                                                                                                                                               2.189
                                                                                                                                                                                                             0.029
                                                b4 (res b);
                                                                                                                                                                                                                                                   -0.951
                                                                                                                                                                                                                                                              -0.781
                                                                                                                                                                                                                                                                         -0.693
                                                                                                                                                                                                                                                                                    -0.238
                                                                                                                                                                                                                                                                                               0.217
                                                                                                                                                                                                                                                                                                         0.304
                                                                                                                                                                                                                                                                                                                    0.474
                                                                                                                                             SB
                                                                                                                                                                     0.000
                                                                                                                                                                                  0.009
                                                                                                                                                                                               0.039
                                                                                                                                                                                                             0.968
                                                    !Paired covariances constrained to be equal across t
                                                                                                                                                                                                                                                   -0.193
                                                                                                                                                                                                                                                              -0.156
                                                                                                                                                                                                                                                                         -0.138
                                                                                                                                                                                                                                                                                    -0.040
                                                                                                                                                                                                                                                                                                         0.076
                                                                                                                                                                                                                                                    6.568
                                                                                                                                                                                                                                                              8.717
                                                                                                                                                                                                                                                                         9.816
                                                                                                                                                                                                                                                                                   15,558
                                                                                                                                                                                                                                                                                              21,299
                                                                                                                                                                                                                                                                                                         22,399
                                                                                                                                                                                                                                                                                                                   24.548
                                                a2 pwith b2 (res cov);
                                                                                                                                                                                                                                    SB
                                                                                                                                                                                                                                                   -0.149
                                                                                                                                                                                                                                                              0.292
                                                                                                                                                                                                                                                                         0.517
                                                                                                                                                                                                                                                                                    1.696
                                                                                                                                                                                                                                                                                              2.874
                                                                                                                                                                                                                                                                                                                    3.541
                                                                                                                                          SA
                                                                                                                                                     WITH
                                                a4 pwith b4 (res cov);
                                                                                                                                             IB
                                                                                                                                                                    -0.009
                                                                                                                                                                                  0.017
                                                                                                                                                                                               -0.498
                                                                                                                                                                                                             0.618
                                                MODEL CONSTRAINT:
                                                                                                                                                                                                                                  Residual Variances
                                                                                                                                             SB
                                                                                                                                                                     0.000
                                                                                                                                                                                  0.003
                                                                                                                                                                                               0.008
                                                                                                                                                                                                             0.993
                                                                                                                                                                                                                                    A2
                                                                                                                                                                                                                                                    0.010
                                                                                                                                                                                                                                                              0.020
                                                                                                                                                                                                                                                                         0.025
                                                                                                                                                                                                                                                                                              0.076
                                                                                                                                                                                                                                                                                                         0.081
                                                    !assigns labels to new parameters;
                                                                                                                                                                                                                                    A4
                                                                                                                                                                                                                                                              0.020
                                                                                                                                                                                                                                                                                    0.051
                                                                                                                                                                                                                                                                                                         0.081
                                                                                                                                                                                                                                                                                                                    0.091
                                                NEW r iaib;
                                                                                                                                                                                                                                    B2
                                                                                                                                                                                                                                                   14,922
                                                                                                                                                                                                                                                             15.404
                                                                                                                                                                                                                                                                         15.650
                                                                                                                                                                                                                                                                                   16.938
                                                                                                                                                                                                                                                                                              18.225
                                                                                                                                                                                                                                                                                                         18.472
                                                                                                                                                                                                                                                                                                                   18.954
                                                                                                                                          IB
                                                                                                                                                     WITH
                                                                                                                                                                                                                                    B4
                                                                                                                                                                                                                                                  14.922
                                                                                                                                                                                                                                                             15.404
                                                                                                                                                                                                                                                                        15.650
                                                                                                                                                                                                                                                                                   16.938
                                                                                                                                                                                                                                                                                              18.225
                                                                                                                                                                                                                                                                                                         18.472
                                                                                                                                                                                                                                                                                                                   18.954
                                                NEW r sasb;
                                                                                                                                             SB
                                                                                                                                                                     0.000
                                                                                                                                                                                  0.009
                                                                                                                                                                                               0.039
                                                                                                                                                                                                             0.968
                                                                                                                                                                                                                                    IA
                                                                                                                                                                                                                                                   -0.022
                                                                                                                                                                                                                                                                                               0.158
                                                NEW r res ab;
                                                                                                                                                                                                                                    SA
                                                                                                                                                                                                                                                   -0.002
                                                                                                                                                                                                                                                              -0.001
                                                                                                                                                                                                                                                                         0.000
                                                                                                                                                                                                                                                                                              0.007
                                                                                                                                                                                                                                                                                                         0.007
                                                                                                                                                                                                                                                                                                                    0.009
                                                                                                                                                                                                                                    IB
                                                                                                                                                                                                                                                                        13.822
                                                                                                                                                                                                                                                                                              16.642
                                                                                                                                                                                                                                                                                                         16.912
                                                                                                                                                                                                                                                                                                                   17.439
                                                  !compute confidence intervals for correlation coefficients;
                                                                                                                                          A2
                                                                                                                                                     WITH
                                                                                                                                                                                                                                    SB
                                                r iaib = c iaib/((v ia**0.5)*(v ib**0.5));
                                                                                                                                             B2
                                                                                                                                                                    -0.005
                                                                                                                                                                                  0.031
                                                                                                                                                                                               -0.177
                                                                                                                                                                                                             0.860
                                                                                                                                                                                                                                New/Additional Parameters
                                                r sasb = c sasb/((v sa**0.5)*(v sb**0.5));
                                                                                                                                                                                                                                                              0.033
                                                                                                                                                                                                                                    R IAIB
                                                                                                                                                                                                                                                   0.005
                                                                                                                                                                                                                                                                         0.048
                                                                                                                                                                                                                                                                                    0 124
                                                                                                                                                                                                                                                                                                                    0.243
                                                                                                                                          A4
                                                                                                                                                     WITH
                                                r res ab = res cov/((res a**0.5)*(res b**0.5));
                                                                                                                                                                                                                                    R SASB
                                                                                                                                                                                                                                                              -0.436
                                                                                                                                                                                                                                                                         -0.365
                                                                                                                                                                                                                                                                                    0.002
                                                                                                                                                                                                                                                                                              0.369
                                                                                                                                                                                                                                                                                                         0.439
                                                                                                                                                                                                                                                                                                                    0.577
                                                                                                                                             B4
                                                                                                                                                                    -0.005
                                                                                                                                                                                  0.031
                                                                                                                                                                                              -0.177
                                                                                                                                                                                                             0.860
                                                                                                                                                                                                                                    R RES AB
                                                                                                                                                                                                                                                   -0.092
                                                                                                                                                                                                                                                                         -0.061
                                                                                                                                                                                                                                                                                              0.049
                                                                                                                                                                                                                                                                                                         0.060
                                                OUTPUT: sampstat cinterval;
                                                PLOT: Type is Plot1 Plot2 Plot3;
```

In 1, Col 1

NUM

Molus - [0000007-b1-elsa-fev-categories-female-aeh.inp]

Ready

