Supplementary Material 1 - Mplus Input – NCDS Cohort

**Model 0**

 usevariable are

! 9 items version Malaise Inventory, Items 2, 3, 9, 12, 14, 16, 20 and 21

!ages 23, 33, 42 and 50

mal2\_1 mal3\_1 mal5\_1 mal9\_1 mal12\_1 mal14\_1 mal16\_1 mal20\_1 mal21\_1 !23yrs

mal2\_2 mal3\_2 mal5\_2 mal9\_2 mal12\_2 mal14\_2 mal16\_2 mal20\_2 mal21\_2 !33yrs

mal2\_3 mal3\_3 mal5\_3 mal9\_3 mal12\_3 mal14\_3 mal16\_3 mal20\_3 mal21\_3 !42yrs

mal2\_4 mal3\_4 mal5\_4 mal9\_4 mal12\_4 mal14\_4 mal16\_4 mal20\_4 mal21\_4; !50yrs

categorical are

mal2\_1 mal3\_1 mal5\_1 mal9\_1 mal12\_1 mal14\_1 mal16\_1 mal20\_1 mal21\_1

mal2\_2 mal3\_2 mal5\_2 mal9\_2 mal12\_2 mal14\_2 mal16\_2 mal20\_2 mal21\_2

mal2\_3 mal3\_3 mal5\_3 mal9\_3 mal12\_3 mal14\_3 mal16\_3 mal20\_3 mal21\_3

mal2\_4 mal3\_4 mal5\_4 mal9\_4 mal12\_4 mal14\_4 mal16\_4 mal20\_4 mal21\_4;

missing are all (-99, 9999);

Grouping is SEXN (1=MALE 2=FEMALE);

Analysis: parameterization=theta;

!model 0

 MODEL:

 T1 by mal2\_1@1

 mal2\_2 (l1)

 mal2\_3 (l2)

 mal2\_4 (l3);

 T2 by mal3\_1@1

 mal3\_2 (l4)

 mal3\_3 (l5)

 mal3\_4 (l6);

 T3 by mal5\_1@1

 mal5\_2 (l7)

 mal5\_3 (l8)

 mal5\_4 (l9);

 T4 by mal9\_1@1

 mal9\_2 (l10)

 mal9\_3 (l11)

 mal9\_4 (l12);

 T5 by mal12\_1@1

 mal12\_2 (l13)

 mal12\_3 (l14)

 mal12\_4 (l15);

 T6 by mal14\_1@1

 mal14\_2 (l16)

 mal14\_3 (l17)

 mal14\_4 (l18);

 T7 by mal16\_1@1

 mal16\_2 (l19)

 mal16\_3 (l20)

 mal16\_4 (l21);

 T8 by mal20\_1@1

 mal20\_2 (l22)

 mal20\_3 (l23)

 mal20\_4 (l24);

 T9 by mal21\_1@1

 mal21\_2 (l25)

 mal21\_3 (l26)

 mal21\_4 (l27);

 O1 by mal2\_1@1

 mal3\_1(lamO2)

 mal5\_1(lamO3)

 mal9\_1 (lamO4)

 mal12\_1(lamO5)

 mal14\_1(lamO6)

 mal16\_1(lamO7)

 mal20\_1(lamO8)

 mal21\_1(lamO9);

 !O2 by Y12 to Y92 (33 yrs old)

 O2 by mal2\_2@1

 mal3\_2(lamO22)

 mal5\_2(lamO32)

 mal9\_2(lamO42)

 mal12\_2 (lamO52)

 mal14\_2 (lamO62)

 mal16\_2 (lamO72)

 mal20\_2 (lamO82)

 mal21\_2 (lamO92);

 !O3 by Y13 to Y93 (42 yrs old)

 O3 by mal2\_3@1

 mal3\_3(lamO23)

 mal5\_3(lamO33)

 mal9\_3(lamO43)

 mal12\_3 (lamO53)

 mal14\_3 (lamO63)

 mal16\_3 (lamO73)

 mal20\_3 (lamO83)

 mal21\_3 (lamO93);

 !O4 by Y14 to Y94 (50 yrs old)

 O4 by mal2\_4@1

 mal3\_4(lamO24)

 mal5\_4(lamO34)

 mal9\_4(lamO44)

 mal12\_4 (lamO54)

 mal14\_4 (lamO64)

 mal16\_4 (lamO74)

 mal20\_4 (lamO84)

 mal21\_4 (lamO94);

 [O1@0 O2@0 O3@0 O4@0];

 ! Thresholds!

 [mal2\_1$1 mal2\_2$1 mal2\_3$1 mal2\_4$1];

 [mal3\_1$1 mal3\_2$1 mal3\_3$1 mal3\_4$1];

 [mal5\_1$1 mal5\_2$1 mal5\_3$1 mal5\_4$1];

 [mal9\_1$1 mal9\_2$1 mal9\_3$1 mal9\_4$1];

 [mal12\_1$1 mal12\_2$1 mal12\_3$1 mal12\_4$1];

 [mal14\_1$1 mal14\_2$1 mal14\_3$1 mal14\_4$1];

 [mal16\_1$1 mal16\_2$1 mal16\_3$1 mal16\_4$1];

 [mal20\_1$1 mal20\_2$1 mal20\_3$1 mal20\_4$1];

 [mal21\_1$1 mal21\_2$1 mal21\_3$1 mal21\_4$1];

 ! zero correlation!

 O1 with T1-T9@0 O2@0 O3@0 O4@0;

 O2 with T1-T9@0 O3@0 O4@0;

 O3 with T1-T9@0 O4@0;

 O4 with T1-T9@0;

 ! autoregressive effects

 O4 on O3 (beta2m);

 O3 on O2 (beta1m);

 O2 on O1 (beta0m);

 ! state residual variances

 O1\* (ovar1);

 O2\* (ovar2);

 O3\* (ovar3);

 O4\* (ovar4);

 !mal2\_1 mal2\_2 mal2\_3 mal2\_4 (resvar1);

 !mal3\_1 mal3\_2 mal3\_3 mal3\_4 (resvar2);

 !mal5\_1 mal5\_2 mal5\_3 mal5\_4 (resvar3);

 !mal9\_1 mal9\_2 mal9\_3 mal9\_4 (resvar4);

 ! mal12\_1 mal12\_2 mal12\_3 mal12\_4 (resvar5);

 ! mal14\_1 mal14\_2 mal14\_3 mal14\_4 (resvar6);

 ! mal16\_1 mal16\_2 mal16\_3 mal16\_4 (resvar7);

 ! mal20\_1 mal20\_2 mal20\_3 mal20\_4 (resvar8);

 ! mal21\_1 mal21\_2 mal21\_3 mal21\_4 (resvar9);

 Model female:

 T1 by mal2\_1@1

 mal2\_2 (l1f)

 mal2\_3 (l2f)

 mal2\_4 (l3f);

 T2 by mal3\_1@1

 mal3\_2 (l4f)

 mal3\_3 (l5f)

 mal3\_4 (l6f);

 T3 by mal5\_1@1

 mal5\_2 (l7f)

 mal5\_3 (l8f)

 mal5\_4 (l9f);

 T4 by mal9\_1@1

 mal9\_2 (l10f)

 mal9\_3 (l11f)

 mal9\_4 (l12f);

 T5 by mal12\_1@1

 mal12\_2 (l13f)

 mal12\_3 (l14f)

 mal12\_4 (l15f);

 T6 by mal14\_1@1

 mal14\_2 (l16f)

 mal14\_3 (l17f)

 mal14\_4 (l18f);

 T7 mal16\_1@1

 mal16\_2 (l19f)

 mal16\_3 (l20f)

 mal16\_4 (l21f);

 T8 by mal20\_1@1

 mal20\_2 (l22f)

 mal20\_3 (l23f)

 mal20\_4 (l24f);

 T9 by mal21\_1@1

 mal21\_2 (l25f)

 mal21\_3 (l26f)

 mal21\_4 (l27f);

 O4 on O3 (beta2f);

 O3 on O2 (beta1f);

 O2 on O1 (beta0f);

 O1\* (ovar1f);

 O2\* (ovar2f);

 O3\* (ovar3f);

 O4\* (ovar4f);

 O1 by mal2\_1@1

 mal3\_1(lamO2f)

 mal5\_1 (lamO3f)

 mal9\_1 (lamO4f)

 mal12\_1 (lamO5f)

 mal14\_1 (lamO6f)

 mal16\_1 (lamO7f)

 mal20\_1 (lamO8f)

 mal21\_1 (lamO9f);

 !O2 by Y12 to Y92 (33 yrs old)

 O2 by mal2\_2@1

 mal3\_2 (lamO22f)

 mal5\_2 (lamO32f)

 mal9\_2 (lamO42f)

 mal12\_2 (lamO52f)

 mal14\_2 (lamO62f)

 mal16\_2 (lamO72f)

 mal20\_2 (lamO82f)

 mal21\_2 (lamO92f);

 !O3 by Y13 to Y93 (42 yrs old)

 O3 by mal2\_3@1

 mal3\_3 (lamO23f)

 mal5\_3 (lamO33f)

 mal9\_3 (lamO43f)

 mal12\_3 (lamO53f)

 mal14\_3 (lamO63f)

 mal16\_3(lamO73f)

 mal20\_3 (lamO83f)

 mal21\_3 (lamO93f);

 !O4 by Y14 to Y94 (50 yrs old)

 O4 by mal2\_4@1

 mal3\_4 (lamO24f)

 mal5\_4 (lamO34f)

 mal9\_4 (lamO44f)

 mal12\_4 (lamO54f)

 mal14\_4 (lamO64f)

 mal16\_4 (lamO74f)

 mal20\_4 (lamO84f)

 mal21\_4 (lamO94f);

 ! Thresholds!

 [mal2\_1$1 mal2\_2$1 mal2\_3$1 mal2\_4$1];

 [mal3\_1$1 mal3\_2$1 mal3\_3$1 mal3\_4$1];

 [mal5\_1$1 mal5\_2$1 mal5\_3$1 mal5\_4$1];

 [mal9\_1$1 mal9\_2$1 mal9\_3$1 mal9\_4$1];

 [mal12\_1$1 mal12\_2$1 mal12\_3$1 mal12\_4$1];

 [mal14\_1$1 mal14\_2$1 mal14\_3$1 mal14\_4$1];

 [mal16\_1$1 mal16\_2$1 mal16\_3$1 mal16\_4$1];

 [mal20\_1$1 mal20\_2$1 mal20\_3$1 mal20\_4$1];

 [mal21\_1$1 mal21\_2$1 mal21\_3$1 mal21\_4$1];

 [t1@0 t2@0 t3@0 t4@0 t5@0 t6@0 t7@0 t8@0 t9@0];

 mal2\_1@1 mal2\_2@1 mal2\_3@1 mal2\_4@1 ;

 mal3\_1@1 mal3\_2@1 mal3\_3@1 mal3\_4@1 ;

 mal5\_1@1 mal5\_2@1 mal5\_3@1 mal5\_4@1 ;

 mal9\_1@1 mal9\_2@1 mal9\_3@1 mal9\_4@1 ;

 mal12\_1@1 mal12\_2@1 mal12\_3@1 mal12\_4@1 ;

 mal14\_1@1 mal14\_2@1 mal14\_3@1 mal14\_4@1 ;

 mal16\_1@1 mal16\_2@1 mal16\_3@1 mal16\_4@1 ;

 mal20\_1@1 mal20\_2@1 mal20\_3@1 mal20\_4@1 ;

 mal21\_1@1 mal21\_2@1 mal21\_3@1 mal21\_4@1 ;

**!model 1**

usevariable are

mal2\_1 mal3\_1 mal5\_1 mal9\_1 mal10\_1 mal12\_1 mal16\_1 mal20\_1 mal21\_1 !23yrs

mal2\_2 mal3\_2 mal5\_2 mal9\_2 mal10\_2 mal12\_2 mal16\_2 mal20\_2 mal21\_2 !33yrs

mal2\_3 mal3\_3 mal5\_3 mal9\_3 mal12\_3 mal14\_3 mal16\_3 mal20\_3 mal21\_3 !42yrs

mal2\_4 mal3\_4 mal5\_4 mal9\_4 mal12\_4 mal14\_4 mal16\_4 mal20\_4 mal21\_4; !50 yrs

categorical are

mal2\_1 mal3\_1 mal5\_1 mal9\_1 mal10\_1 mal12\_1 mal16\_1 mal20\_1 mal21\_1 !23yrs

mal2\_2 mal3\_2 mal5\_2 mal9\_2 mal10\_2 mal12\_2 mal16\_2 mal20\_2 mal21\_2 !33yrs

mal2\_3 mal3\_3 mal5\_3 mal9\_3 mal12\_3 mal14\_3 mal16\_3 mal20\_3 mal21\_3 !42yrs

mal2\_4 mal3\_4 mal5\_4 mal9\_4 mal12\_4 mal14\_4 mal16\_4 mal20\_4 mal21\_4; !50 yrs

missing are all (-99, 9999);

Grouping is SEXN (1=MALE 2=FEMALE);

 Analysis:

 parameterization=theta;

 difftest=model0;

 MODEL:

 T1 by mal2\_1@1

 mal2\_2 (l1)

 mal2\_3 (l2)

 mal2\_4 (l3);

 T2 by mal3\_1@1

 mal3\_2 (l4)

 mal3\_3 (l5)

 mal3\_4 (l6);

 T3 by mal5\_1@1

 mal5\_2 (l7)

 mal5\_3 (l8)

 mal5\_4 (l9);

 T4 by mal9\_1@1

 mal9\_2 (l10)

 mal9\_3 (l11)

 mal9\_4 (l12);

 T5 by mal12\_1@1

 mal12\_2 (l13)

 mal12\_3 (l14)

 mal12\_4 (l15);

 T6 by mal14\_1@1

 mal14\_2 (l16)

 mal14\_3 (l17)

 mal14\_4 (l18);

 T7 by mal16\_1@1

 mal16\_2 (l19)

 mal16\_3 (l20)

 mal16\_4 (l21);

 T8 by mal20\_1@1

 mal20\_2 (l22)

 mal20\_3 (l23)

 mal20\_4 (l24);

 T9 by mal21\_1@1

 mal21\_2 (l25)

 mal21\_3 (l26)

 mal21\_4 (l27);

 O1 by mal2\_1@1

 mal3\_1 (lamO2)

 mal5\_1 (lamO3)

 mal9\_1 (lamO4)

 mal12\_1 (lamO5)

 mal14\_1 (lamO6)

 mal16\_1 (lamO7)

 mal20\_1 (lamO8)

 mal21\_1 (lamO9);

 !O2 by Y12 to Y92 (33 yrs old)

 O2 by mal2\_2@1

 mal3\_2 (lamO22)

 mal5\_2 (lamO32)

 mal9\_2 (lamO42)

 mal12\_2 (lamO52)

 mal14\_2 (lamO62)

 mal16\_2 (lamO72)

 mal20\_2 (lamO82)

 mal21\_2 (lamO92);

 !O3 by Y13 to Y93 (42 yrs old)

 O3 by mal2\_3@1

 mal3\_3 (lamO23)

 mal5\_3 (lamO33)

 mal9\_3 (lamO43)

 mal12\_3 (lamO53)

 mal14\_3 (lamO63)

 mal16\_3(lamO73)

 mal20\_3(lamO83)

 mal21\_3 (lamO93);

 !O4 by Y14 to Y94 (50 yrs old)

 O4 by mal2\_4@1

 mal3\_4 (lamO24)

 mal5\_4 (lamO34)

 mal9\_4 (lamO44)

 mal12\_4 (lamO54)

 mal14\_4 (lamO64)

 mal16\_4 (lamO74)

 mal20\_4 (lamO84)

 mal21\_4 (lamO94);

 [O1@0 O2@0 O3@0 O4@0];

 ! Thresholds!

 [mal2\_1$1 mal2\_2$1 mal2\_3$1 mal2\_4$1];

 [mal3\_1$1 mal3\_2$1 mal3\_3$1 mal3\_4$1];

 [mal5\_1$1 mal5\_2$1 mal5\_3$1 mal5\_4$1];

 [mal9\_1$1 mal9\_2$1 mal9\_3$1 mal9\_4$1];

 [mal12\_1$1 mal12\_2$1 mal12\_3$1 mal12\_4$1];

 [mal14\_1$1 mal14\_2$1 mal14\_3$1 mal14\_4$1];

 [mal16\_1$1 mal16\_2$1 mal16\_3$1 mal16\_4$1];

 [mal20\_1$1 mal20\_2$1 mal20\_3$1 mal20\_4$1];

 [mal21\_1$1 mal21\_2$1 mal21\_3$1 mal21\_4$1];

 ! zero correlation!

 O1 with T1-T9@0 O2@0 O3@0 O4@0;

 O2 with T1-T9@0 O3@0 O4@0;

 O3 with T1-T9@0 O4@0;

 O4 with T1-T9@0;

 ! autoregressive effects

 O4 on O3 (beta2m);

 O3 on O2 (beta1m);

 O2 on O1 (beta1m);

 ! state residual variances

 O1\* (ovar1);

 O2\* (ovar2);

 O3\* (ovar3);

 O4\* (ovar4);

 Model female:

 T1 by mal2\_1@1

 mal2\_2 (l1f)

 mal2\_3 (l2f)

 mal2\_4 (l3f);

 T2 by mal3\_1@1

 mal3\_2 (l4f)

 mal3\_3 (l5f)

 mal3\_4 (l6f);

 T3 by mal5\_1@1

 mal5\_2 (l7f)

 mal5\_3 (l8f)

 mal5\_4 (l9f);

 T4 by mal9\_1@1

 mal9\_2 (l10f)

 mal9\_3 (l11f)

 mal9\_4 (l12f);

 T5 by mal12\_1@1

 mal12\_2 (l13f)

 mal12\_3 (l14f)

 mal12\_4 (l15f);

 T6 by mal14\_1@1

 mal14\_2 (l16f)

 mal14\_3 (l17f)

 mal14\_4 (l18f);

 T7 by mal16\_1@1

 mal16\_2 (l19f)

 mal16\_3 (l20f)

 mal16\_4 (l21f);

 T8 by mal20\_1@1

 mal20\_2 (l22f)

 mal20\_3 (l23f)

 mal20\_4 (l24f);

 T9 by mal21\_1@1

 mal21\_2 (l25f)

 mal21\_3 (l26f)

 mal21\_4 (l27f);

 O4 on O3 (beta2f);

 O3 on O2 (beta1f);

 O2 on O1 (beta1f);

 O1\* (ovar1f);

 O2\* (ovar2f);

 O3\* (ovar3f);

 O4\* (ovar4f);

 O1 by mal2\_1@1

 mal3\_1 (lamO2f)

 mal5\_1 (lamO3f)

 mal9\_1 (lamO4f)

 mal12\_1 (lamO5f)

 mal14\_1 (lamO6f)

 mal16\_1 (lamO7f)

 mal20\_1 (lamO8f)

 mal21\_1 (lamO9f);

 !O2 by Y12 to Y92 (33 yrs old)

 O2 by mal2\_2@1

 mal3\_2 (lamO22f)

 mal5\_2 (lamO32f)

 mal9\_2 (lamO42f)

 mal12\_2 (lamO52f)

 mal14\_2 (lamO62f)

 mal16\_2 (lamO72f)

 mal20\_2 (lamO82f)

 mal21\_2 (lamO92f);

 !O3 by Y13 to Y93 (42 yrs old)

 O3 by mal2\_3@1

 mal3\_3 (lamO23f)

 mal5\_3 (lamO33f)

 mal9\_3 (lamO43f)

 mal12\_3 (lamO53f)

 mal14\_3 (lamO63f)

 mal16\_3 (lamO73f)

 mal20\_3 (lamO83f)

 mal21\_3 (lamO93f);

 !O4 by Y14 to Y94 (50 yrs old)

 O4 by mal2\_4@1

 mal3\_4 (lamO24f)

 mal5\_4 (lamO34f)

 mal9\_4 (lamO44f)

 mal12\_4 (lamO54f)

 mal14\_4 (lamO64f)

 mal16\_4 (lamO74f)

 mal20\_4 (lamO84f)

 mal21\_4 (lamO94f);

 ! Thresholds!

 [mal2\_1$1 mal2\_2$1 mal2\_3$1 mal2\_4$1];

 [mal3\_1$1 mal3\_2$1 mal3\_3$1 mal3\_4$1];

 [mal5\_1$1 mal5\_2$1 mal5\_3$1 mal5\_4$1];

 [mal9\_1$1 mal9\_2$1 mal9\_3$1 mal9\_4$1];

 [mal12\_1$1 mal12\_2$1 mal12\_3$1 mal12\_4$1];

 [mal14\_1$1 mal14\_2$1 mal14\_3$1 mal14\_4$1];

 [mal16\_1$1 mal16\_2$1 mal16\_3$1 mal16\_4$1];

 [mal20\_1$1 mal20\_2$1 mal20\_3$1 mal20\_4$1];

 [mal21\_1$1 mal21\_2$1 mal21\_3$1 mal21\_4$1];

 [t1@0 t2@0 t3@0 t4@0 t5@0 t6@0 t7@0 t8@0 t9@0];

 mal2\_1@1 mal2\_2@1 mal2\_3@1 mal2\_4@1 ;

 mal3\_1@1 mal3\_2@1 mal3\_3@1 mal3\_4@1 ;

 mal5\_1@1 mal5\_2@1 mal5\_3@1 mal5\_4@1 ;

 mal9\_1@1 mal9\_2@1 mal9\_3@1 mal9\_4@1 ;

 mal12\_1@1 mal12\_2@1 mal12\_3@1 mal12\_4@1 ;

 mal14\_1@1 mal14\_2@1 mal14\_3@1 mal14\_4@1 ;

 mal16\_1@1 mal16\_2@1 mal16\_3@1 mal16\_4@1 ;

 mal20\_1@1 mal20\_2@1 mal20\_3@1 mal20\_4@1 ;

 mal21\_1@1 mal21\_2@1 mal21\_3@1 mal21\_4@1 ;

**!model 2**

usevariable are

mal2\_1 mal3\_1 mal5\_1 mal9\_1 mal10\_1 mal12\_1 mal16\_1 mal20\_1 mal21\_1 !23yrs

mal2\_2 mal3\_2 mal5\_2 mal9\_2 mal10\_2 mal12\_2 mal16\_2 mal20\_2 mal21\_2 !33yrs

mal2\_3 mal3\_3 mal5\_3 mal9\_3 mal12\_3 mal14\_3 mal16\_3 mal20\_3 mal21\_3 !42yrs

mal2\_4 mal3\_4 mal5\_4 mal9\_4 mal12\_4 mal14\_4 mal16\_4 mal20\_4 mal21\_4; !50 yrs

categorical are

mal2\_1 mal3\_1 mal5\_1 mal9\_1 mal10\_1 mal12\_1 mal16\_1 mal20\_1 mal21\_1 !23yrs

mal2\_2 mal3\_2 mal5\_2 mal9\_2 mal10\_2 mal12\_2 mal16\_2 mal20\_2 mal21\_2 !33yrs

mal2\_3 mal3\_3 mal5\_3 mal9\_3 mal12\_3 mal14\_3 mal16\_3 mal20\_3 mal21\_3 !42yrs

mal2\_4 mal3\_4 mal5\_4 mal9\_4 mal12\_4 mal14\_4 mal16\_4 mal20\_4 mal21\_4; !50 yrs

missing are all (-99, 9999);

Grouping is SEXN (1=MALE 2=FEMALE);

 Analysis:

 parameterization=theta;

 difftest=model1;

 MODEL:

 T1 by mal2\_1@1

 mal2\_2 (l1)

 mal2\_3 (l2)

 mal2\_4 (l3);

 T2 by mal3\_1@1

 mal3\_2 (l4)

 mal3\_3 (l5)

 mal3\_4 (l6);

 T3 by mal5\_1@1

 mal5\_2 (l7)

 mal5\_3 (l8)

 mal5\_4 (l9);

 T4 by mal9\_1@1

 mal9\_2 (l10)

 mal9\_3 (l11)

 mal9\_4 (l12);

 T5 by mal12\_1@1

 mal12\_2 (l13)

 mal12\_3 (l14)

 mal12\_4 (l15);

 T6 by mal14\_1@1

 mal14\_2 (l16)

 mal14\_3 (l17)

 mal14\_4 (l18);

 T7 by mal16\_1@1

 mal16\_2 (l19)

 mal16\_3 (l20)

 mal16\_4 (l21);

 T8 by mal20\_1@1

 mal20\_2 (l22)

 mal20\_3 (l23)

 mal20\_4 (l24);

 T9 by mal21\_1@1

 mal21\_2 (l25)

 mal21\_3 (l26)

 mal21\_4 (l27);

 O1 by mal2\_1@1

 mal3\_1 (lamO2)

 mal5\_1 (lamO3)

 mal9\_1 (lamO4)

 mal12\_1 (lamO5)

 mal14\_1 (lamO6)

 mal16\_1 (lamO7)

 mal20\_1 (lamO8)

 mal21\_1 (lamO9);

 !O2 by Y12 to Y92 (33 yrs old)

 O2 by mal2\_2@1

 mal3\_2 (lamO2)

 mal5\_2 (lamO3)

 mal9\_2 (lamO4)

 mal12\_2 (lamO5)

 mal14\_2 (lamO6)

 mal16\_2 (lamO7)

 mal20\_2 (lamO8)

 mal21\_2 (lamO9);

 !O3 by Y13 to Y93 (42 yrs old)

 O3 by mal2\_3@1

 mal3\_3 (lamO2)

 mal5\_3 (lamO3)

 mal9\_3 (lamO4)

 mal12\_3 (lamO5)

 mal14\_3 (lamO6)

 mal16\_3 (lamO7)

 mal20\_3 (lamO8)

 mal21\_3 (lamO9);

 !O4 by Y14 to Y94 (50 yrs old)

 O4 by mal2\_4@1

 mal3\_4 (lamO2)

 mal5\_4 (lamO3)

 mal9\_4 (lamO4)

 mal12\_4 (lamO5)

 mal14\_4(lamO6)

 mal16\_4 (lamO7)

 mal20\_4 (lamO8)

 mal21\_4 (lamO9);

 [O1@0 O2@0 O3@0 O4@0];

 ! Thresholds!

 [mal2\_1$1 n mal2\_2 1 mal2\_3$1 mal2\_4$1];

 [mal3\_1$1 mal3\_2$1 mal3\_3$1 mal3\_4$1];

 [mal5\_1$1 mal5\_2$1 mal5\_3$1 mal5\_4$1];

 [mal9\_1$1 mal9\_2$1 mal9\_3$1 mal9\_4$1];

 [mal12\_1$1 mal12\_2$1 mal12\_3$1 mal12\_4$1];

 [mal14\_1$1 mal14\_2$1 mal14\_3$1 mal14\_4$1];

 [mal16\_1$1 mal16\_2$1 mal16\_3$1 mal16\_4$1];

 [mal20\_1$1 mal20\_2$1 mal20\_3$1 mal20\_4$1];

 [mal21\_1$1 mal21\_2$1 mal21\_3$1 mal21\_4$1];

 ! zero correlation!

 O1 with T1-T9@0 O2@0 O3@0 O4@0;

 O2 with T1-T9@0 O3@0 O4@0;

 O3 with T1-T9@0 O4@0;

 O4 with T1-T9@0;

 ! autoregressive effects

 O4 on O3 (beta2m);

 O3 on O2 (beta1m);

 O2 on O1 (beta1m);

 ! state residual variances

 O1\* (ovar1);

 O2\* (ovar2);

 O3\* (ovar3);

 O4\* (ovar4);

 !mal2\_1 mal2\_2 mal2\_3 mal2\_4 (resvar1);

 !mal3\_1 mal3\_2 mal3\_3 mal3\_4 (resvar2);

 !mal5\_1 mal5\_2 mal5\_3 mal5\_4 (resvar3);

 !mal9\_1 mal9\_2 mal9\_3 mal9\_4 (resvar4);

 !mal12\_1 mal12\_2 mal12\_3 mal12\_4 (resvar5);

 !mal14\_1 mal14\_2 mal14\_3 mal14\_4 (resvar6);

 !mal16\_1 mal16\_2 mal16\_3 mal16\_4 (resvar7);

 !mal20\_1 mal20\_2 mal20\_3 mal20\_4 (resvar8);

 !mal21\_1 mal21\_2 mal21\_3 mal21\_4 (resvar9);

 Model female:

 T1 by mal2\_1@1

 mal2\_2 (l1f)

 mal2\_3 (l2f)

 mal2\_4 (l3f);

 T2 by mal3\_1@1

 mal3\_2 (l4f)

 mal3\_3 (l5f)

 mal3\_4 (l6f);

 T3 by mal5\_1@1

 mal5\_2 (l7f)

 mal5\_3 (l8f)

 mal5\_4 (l9f);

 T4 by mal9\_1@1

 mal9\_2 (l10f)

 mal9\_3 (l11f)

 mal9\_4 (l12f);

 T5 by mal12\_1@1

 mal12\_2 (l13f)

 mal12\_3 (l14f)

 mal12\_4 (l15f);

 T6 by mal14\_1@1

 mal14\_2 (l16f)

 mal14\_3 (l17f)

 mal14\_4 (l18f);

 T7 by mal16\_1@1

 mal16\_2 (l19f)

 mal16\_3 (l20f)

 mal16\_4 (l21f);

 T8 by mal20\_1@1

 mal20\_2 (l22f)

 mal20\_3 (l23f)

 mal20\_4 (l24f);

 T9 mal21\_1@1

 mal21\_2 (l25f)

 mal21\_3 (l26f)

 mal21\_4 (l27f);

 O4 on O3 (beta2f);

 O3 on O2 (beta1f);

 O2 on O1 (beta1f);

 O1\* (ovar1f);

 O2\* (ovar2f);

 O3\* (ovar3f);

 O4\* (ovar4f);

 O1 by mal2\_1@1

 mal3\_1 (lamO2f)

 mal5\_1 (lamO3f)

 mal9\_1 (lamO4f)

 mal12\_1 (lamO5f)

 mal14\_1 (lamO6f)

 mal16\_1 (lamO7f)

 mal20\_1 (lamO8f)

 mal21\_1 (lamO9f);

 !O2 by Y12 to Y92 (33 yrs old)

 O2 by mal2\_2@1

 mal3\_2 (lamO2f)

 mal5\_2 (lamO3f)

 mal9\_2 (lamO4f)

 mal12\_2 (lamO5f)

 mal14\_2 (lamO6f)

 mal16\_2 (lamO7f)

 mal20\_2 (lamO8f)

 mal21\_2 (lamO9f);

 !O3 by Y13 to Y93 (42 yrs old)

 O3 by mal2\_3@1

 mal3\_3 (lamO2f)

 mal5\_3 (lamO3f)

 mal9\_3 (lamO4f)

 mal12\_3 (lamO5f)

 mal14\_3 (lamO6f)

 mal16\_3 (lamO7f)

 mal20\_3(lamO8f)

 mal21\_3(lamO9f);

 !O4 by Y14 to Y94 (50 yrs old)

 O4 by mal2\_4@1

 mal3\_4 (lamO2f)

 mal5\_4 (lamO3f)

 mal9\_4 (lamO4f)

 mal12\_4 (lamO5f)

 mal14\_4 (lamO6f)

 mal16\_4 (lamO7f)

 mal20\_4 (lamO8f)

 mal21\_4 (lamO9f);

 ! Thresholds!

 [mal2\_1$1 mal2\_2$1 mal2\_3$1 mal2\_4$1];

 [mal3\_1$1 mal3\_2$1 mal3\_3$1 mal3\_4$1];

 [mal5\_1$1 mal5\_2$1 mal5\_3$1 mal5\_4$1];

 [mal9\_1$1 mal9\_2$1 mal9\_3$1 mal9\_4$1];

 [mal12\_1$1 mal12\_2$1 mal12\_3$1 mal12\_4$1];

 [mal14\_1$1 mal14\_2$1 mal14\_3$1 mal14\_4$1];

 [mal16\_1$1 mal16\_2$1 mal16\_3$1 mal16\_4$1];

 [mal20\_1$1 mal20\_2$1 mal20\_3$1 mal20\_4$1];

 [mal21\_1$1 mal21\_2$1 mal21\_3$1 mal21\_4$1];

 [t1@0 t2@0 t3@0 t4@0 t5@0 t6@0 t7@0 t8@0 t9@0];

 mal2\_1@1 mal2\_2@1 mal2\_3@1 mal2\_4@1 ;

 mal3\_1@1 mal3\_2@1 mal3\_3@1 mal3\_4@1 ;

 mal5\_1@1 mal5\_2@1 mal5\_3@1 mal5\_4@1 ;

 mal9\_1@1 mal9\_2@1 mal9\_3@1 mal9\_4@1 ;

 mal12\_1@1 mal12\_2@1 mal12\_3@1 mal12\_4@1 ;

 mal14\_1@1 mal14\_2@1 mal14\_3@1 mal14\_4@1 ;

 mal16\_1@1 mal16\_2@1 mal16\_3@1 mal16\_4@1 ;

 mal20\_1@1 mal20\_2@1 mal20\_3@1 mal20\_4@1 ;

 mal21\_1@1 mal21\_2@1 mal21\_3@1 mal21\_4@1 ;

**!model 3**

usevariable are

mal2\_1 mal3\_1 mal5\_1 mal9\_1 mal10\_1 mal12\_1 mal16\_1 mal20\_1 mal21\_1 !23yrs

mal2\_2 mal3\_2 mal5\_2 mal9\_2 mal10\_2 mal12\_2 mal16\_2 mal20\_2 mal21\_2 !33yrs

mal2\_3 mal3\_3 mal5\_3 mal9\_3 mal12\_3 mal14\_3 mal16\_3 mal20\_3 mal21\_3 !42yrs

mal2\_4 mal3\_4 mal5\_4 mal9\_4 mal12\_4 mal14\_4 mal16\_4 mal20\_4 mal21\_4; !50 yrs

 categorical are

mal2\_1 mal3\_1 mal5\_1 mal9\_1 mal10\_1 mal12\_1 mal16\_1 mal20\_1 mal21\_1 !23yrs

mal2\_2 mal3\_2 mal5\_2 mal9\_2 mal10\_2 mal12\_2 mal16\_2 mal20\_2 mal21\_2 !33yrs

mal2\_3 mal3\_3 mal5\_3 mal9\_3 mal12\_3 mal14\_3 mal16\_3 mal20\_3 mal21\_3 !42yrs

mal2\_4 mal3\_4 mal5\_4 mal9\_4 mal12\_4 mal14\_4 mal16\_4 mal20\_4 mal21\_4; !50 yrs

missing are all (-99, 9999);

Grouping is SEXN (1=MALE 2=FEMALE);

 Analysis:

 parameterization=theta;

 difftest=model2;

 MODEL:

 T1 by mal2\_1@1

 mal2\_2 (l1)

 mal2\_3 (l2)

 mal2\_4 (l3);

 T2 by mal3\_1@1

 mal3\_2 (l4)

 mal3\_3 (l5)

 mal3\_4 (l6);

 T3 by mal5\_1@1

 mal5\_2 (l7)

 mal5\_3 (l8)

 mal5\_4 (l9);

 T4 by mal9\_1@1

 mal9\_2 (l10)

 mal9\_3 (l11)

 mal9\_4 (l12);

 T5 by mal12\_1@1

 mal12\_2 (l13)

 mal12\_3 (l14)

 mal12\_4 (l15);

 T6 by mal14\_1@1

 mal14\_2 (l16)

 mal14\_3 (l17)

 mal14\_4 (l18);

 T7 by mal16\_1@1

 mal16\_2 (l19)

 mal16\_3 (l20)

 mal16\_4 (l21);

 T8 by mal20\_1@1

 mal20\_2 (l22)

 mal20\_3 (l23)

 mal20\_4 (l24);

 T9 by mal21\_1@1

 mal21\_2 (l25)

 mal21\_3 (l26)

 mal21\_4 (l27);

 O1 by mal2\_1@1

 mal3\_1 (lamO2)

 mal5\_1 (lamO3)

 mal9\_1 (lamO4)

 mal12\_1 (lamO5)

 mal14\_1 (lamO6)

 mal16\_1 (lamO7)

 mal20\_1 (lamO8)

 mal21\_1 (lamO9);

 !O2 by Y12 to Y92 (33 yrs old)

 O2 by mal2\_2@1

 mal3\_2(lamO2)

 mal5\_2 (lamO3)

 mal9\_2 (lamO4)

 mal12\_2 (lamO5)

 mal14\_2 (lamO6)

 mal16\_2 (lamO7)

 mal20\_2 (lamO8)

 mal21\_2 (lamO9);

 !O3 by Y13 to Y93 (42 yrs old)

 O3 by mal2\_3@1

 mal3\_3 (lamO2)

 mal5\_3 (lamO3)

 mal9\_3 (lamO4)

 mal12\_3 (lamO5)

 mal14\_3 (lamO6)

 mal16\_3 (lamO7)

 mal20\_3 (lamO8)

 mal21\_3 (lamO9);

 !O4 by Y14 to Y94 (50 yrs old)

 O4 by mal2\_4@1

 mal3\_4 (lamO2)

 mal5\_4 (lamO3)

 mal9\_4 (lamO4)

 mal12\_4 (lamO5)

 mal14\_4 (lamO6)

 mal16\_4 (lamO7)

 mal20\_4 (lamO8)

 mal21\_4 (lamO9);

 [O1@0 O2@0 O3@0 O4@0];

 ! Thresholds!

 [mal2\_1$1 mal2\_2$1 mal2\_3$1 mal2\_4$1];

 [mal3\_1$1 mal3\_2$1 mal3\_3$1 mal3\_4$1];

 [mal5\_1$1 mal5\_2$1 mal5\_3$1 mal5\_4$1];

 [mal9\_1$1 mal9\_2$1 mal9\_3$1 mal9\_4$1];

 [mal12\_1$1 mal12\_2$1 mal12\_3$1 mal12\_4$1];

 [mal14\_1$1 mal14\_2$1 mal14\_3$1 mal14\_4$1];

 [mal16\_1$1 mal16\_2$1 mal16\_3$1 mal16\_4$1];

 [mal20\_1$1 mal20\_2$1 mal20\_3$1 mal20\_4$1];

 [mal21\_1$1 mal21\_2$1 mal21\_3$1 mal21\_4$1];

 ! zero correlation!

 O1 with T1-T9@0 O2@0 O3@0 O4@0;

 O2 with T1-T9@0 O3@0 O4@0;

 O3 with T1-T9@0 O4@0;

 O4 with T1-T9@0;

 ! autoregressive effects

 O4 on O3 (beta2m);

 O3 on O2 (beta1m);

 O2 on O1 (beta1m);

 ! state residual variances

 O1\* (ovar1m);

 O2\* (ovar2m);

 O3\* (ovar3m);

 O4\* (ovar4m);

 !mal2\_1 mal2\_2 mal2\_3 mal2\_4 (resvar1);

 !mal3\_1 mal3\_2 mal3\_3 mal3\_4 (resvar2);

 !mal5\_1 mal5\_2 mal5\_3 mal5\_4 (resvar3);

 !mal9\_1 mal9\_2 mal9\_3 mal9\_4 (resvar4);

 !mal12\_1 mal12\_2 mal12\_3 mal12\_4 (resvar5);

 !mal14\_1 mal14\_2 mal14\_3 mal14\_4 (resvar6);

 !mal16\_1 mal16\_2 mal16\_3 mal16\_4 (resvar7);

 !mal20\_1 mal20\_2 mal20\_3 mal20\_4 (resvar8);

 !mal21\_1 mal21\_2 mal21\_3 mal21\_4 (resvar9);

 mal2\_1@1 mal2\_2@1 mal2\_3@1 mal2\_4@1 ;

 mal3\_1@1 mal3\_2@1 mal3\_3@1 mal3\_4@1 ;

 mal5\_1@1 mal5\_2@1 mal5\_3@1 mal5\_4@1 ;

 mal9\_1@1 mal9\_2@1 mal9\_3@1 mal9\_4@1 ;

 mal12\_1@1 mal12\_2@1 mal12\_3@1 mal12\_4@1 ;

 mal14\_1@1 mal14\_2@1 mal14\_3@1 mal14\_4@1 ;

 mal16\_1@1 mal16\_2@1 mal16\_3@1 mal16\_4@1 ;

 mal20\_1@1 mal20\_2@1 mal20\_3@1 mal20\_4@1 ;

 mal21\_1@1 mal21\_2@1 mal21\_3@1 mal21\_4@1 ;

Model female:

 O1\* (ovar1f);

 O2\* (ovar2f);

 O3\* (ovar3f);

 O4\* (ovar4f);

**!model 4**

usevariable are

mal2\_1 mal3\_1 mal5\_1 mal9\_1 mal12\_1 mal14\_1 mal16\_1 mal20\_1 mal21\_1

mal2\_2 mal3\_2 mal5\_2 mal9\_2 mal12\_2 mal14\_2 mal16\_2 mal20\_2 mal21\_2

mal2\_3 mal3\_3 mal5\_3 mal9\_3 mal12\_3 mal14\_3 mal16\_3 mal20\_3 mal21\_3

mal2\_4 mal3\_4 mal5\_4 mal9\_4 mal12\_4 mal14\_4 mal16\_4 mal20\_4 mal21\_4;

categorical are

mal2\_1 mal3\_1 mal5\_1 mal9\_1 mal12\_1 mal14\_1 mal16\_1 mal20\_1 mal21\_1

mal2\_2 mal3\_2 mal5\_2 mal9\_2 mal12\_2 mal14\_2 mal16\_2 mal20\_2 mal21\_2

mal2\_3 mal3\_3 mal5\_3 mal9\_3 mal12\_3 mal14\_3 mal16\_3 mal20\_3 mal21\_3

mal2\_4 mal3\_4 mal5\_4 mal9\_4 mal12\_4 mal14\_4 mal16\_4 mal20\_4 mal21\_4;

missing are all (-99, 9999);

Grouping is SEXN (1=MALE 2=FEMALE);

 Analysis:

 parameterization=theta;

 difftest=model3;

 MODEL:

 T1 by mal2\_1@1

 mal2\_2@1

 mal2\_3@1

 mal2\_4@1;

 T2 by mal3\_1@1

 mal3\_2@1

 mal3\_3@1

 mal3\_4@1;

 T3 by mal5\_1@1

 mal5\_2@1

 mal5\_3@1

 mal5\_4@1;

 T4 by mal9\_1@1

 mal9\_2@1

 mal9\_3@1

 mal9\_4@1;

 T5 by mal12\_1@1

 mal12\_2@1

 mal12\_3@1

 mal12\_4@1;

 T6 by mal14\_1@1

 mal14\_2@1

 mal14\_3@1

 mal14\_4@1;

 T7 by mal16\_1@1

 mal16\_2@1

 mal16\_3@1

 mal16\_4@1;

 T8 by mal20\_1@1

 mal20\_2@1

 mal20\_3@1

 mal20\_4@1;

 T9 by mal21\_1@1

 mal21\_2@1

 mal21\_3@1

 mal21\_4@1;

 O1 by mal2\_1@1

 mal3\_1 (lamO2)

 mal5\_1 (lamO3)

 mal9\_1 (lamO4)

 mal12\_1 (lamO5)

 mal14\_1 (lamO6)

 mal16\_1 (lamO7)

 mal20\_1 (lamO8)

 mal21\_1 (lamO9);

 !O2 by Y12 to Y92 (33 yrs old)

 O2 by mal2\_2@1

 mal3\_2 (lamO2)

 mal5\_2 (lamO3)

 mal9\_2 (lamO4)

 mal12\_2 (lamO5)

 mal14\_2 (lamO6)

 mal16\_2 (lamO7)

 mal20\_2 (lamO8)

 mal21\_2 (lamO9);

 !O3 by Y13 to Y93 (42 yrs old)

 O3 by mal2\_3@1

 mal3\_3 (lamO2)

 mal5\_3 (lamO3)

 mal9\_3 (lamO4)

 mal12\_3 (lamO5)

 mal14\_3(lamO6)

 mal16\_3 (lamO7)

 mal20\_3 (lamO8)

 mal21\_3 (lamO9);

 !O4 by Y14 to Y94 (50 yrs old)

 O4 by mal2\_4@1

 mal3\_4 (lamO2)

 mal5\_4 (lamO3)

 mal9\_4 (lamO4)

 mal12\_4 (lamO5)

 mal14\_4 (lamO6)

 mal16\_4 (lamO7)

 mal20\_4 (lamO8)

 mal21\_4 (lamO9);

 [O1@0 O2@0 O3@0 O4@0];

 ! Thresholds!

 [mal2\_1$1 mal2\_2$1 mal2\_3$1 mal2\_4$1] (tm1);

 [mal3\_1$1 mal3\_2$1 mal3\_3$1 mal3\_4$1] (tm2);

 [mal5\_1$1 mal5\_2$1 mal5\_3$1 mal5\_4$1] (tm3);

 [mal9\_1$1 mal9\_2$1 mal9\_3$1 mal9\_4$1] (tm4);

 [mal12\_1$1 mal12\_2$1 mal12\_3$1 mal12\_4$1] (tm5);

 [mal14\_1$1 mal14\_2$1 mal14\_3$1 mal14\_4$1] (tm6);

 [mal16\_1$1 mal16\_2$1 mal16\_3$1 mal16\_4$1] (tm7);

 [mal20\_1$1 mal20\_2$1 mal20\_3$1 mal20\_4$1] (tm8);

 [mal21\_1$1 mal21\_2$1 mal21\_3$1 mal21\_4$1] (tm9);

 ! zero correlation!

 O1 with T1-T9@0 O2@0 O3@0 O4@0;

 O2 with T1-T9@0 O3@0 O4@0;

 O3 with T1-T9@0 O4@0;

 O4 with T1-T9@0;

 ! autoregressive effects

 O4 on O3 (beta2m);

 O3 on O2 (beta1m);

 O2 on O1 (beta1m);

 ! state residual variances

 O1\* (ovar1);

 O2\* (ovar2);

 O3\* (ovar3);

 O4\* (ovar4);

 ! mal2\_1 mal2\_2 mal2\_3 mal2\_4 (resvar1);

 ! mal3\_1 mal3\_2 mal3\_3 mal3\_4 (resvar2);

 ! mal5\_1 mal5\_2 mal5\_3 mal5\_4 (resvar3);

 ! mal9\_1 mal9\_2 mal9\_3 mal9\_4 (resvar4);

 ! mal12\_1 mal12\_2 mal12\_3 mal12\_4 (resvar5);

 ! mal14\_1 mal14\_2 mal14\_3 mal14\_4 (resvar6);

 ! mal16\_1 mal16\_2 mal16\_3 mal16\_4 (resvar7);

 ! mal20\_1 mal20\_2 mal20\_3 mal20\_4 (resvar8);

 ! mal21\_1 mal21\_2 mal21\_3 mal21\_4 (resvar9);

 Model female:

 O4 on O3 (beta2m);

 O3 on O2 (beta1m);

 O2 on O1 (beta1m);

 O1\* (ovar1f);

 O2\* (ovar2f);

 O3\* (ovar3f);

 O4\* (ovar4f);

 O1 by mal2\_1@1

 mal3\_1 (lamO2)

 mal5\_1 (lamO3)

 mal9\_1 (lamO4)

 mal12\_1 (lamO5)

 mal14\_1 (lamO6)

 mal16\_1 (lamO7)

 mal20\_1 (lamO8)

 mal21\_1 (lamO9);

 !O2 by Y12 to Y92 (33 yrs old)

 O2 by mal2\_2@1

 mal3\_2 (lamO2)

 mal5\_2 (lamO3)

 mal9\_2 (lamO4)

 mal12\_2 (lamO5)

 mal14\_2 (lamO6)

 mal16\_2 (lamO7)

 mal20\_2 (lamO8)

 mal21\_2 (lamO9);

 !O3 by Y13 to Y93 (42 yrs old)

 O3 by mal2\_3@1

 mal3\_3 (lamO2)

 mal5\_3 (lamO3)

 mal9\_3 (lamO4)

 mal12\_3 (lamO5)

 mal14\_3 (lamO6)

 mal16\_3 (lamO7)

 mal20\_3 (lamO8)

 mal21\_3 (lamO9);

 !O4 by Y14 to Y94 (50 yrs old)

 O4 by mal2\_4@1

 mal3\_4 (lamO2)

 mal5\_4 (lamO3)

 mal9\_4 (lamO4)

 mal12\_4 (lamO5)

 mal14\_4 (lamO6)

 mal16\_4 (lamO7)

 mal20\_4 (lamO8)

 mal21\_4 (lamO9);

 ! Thresholds!

 [mal2\_1$1 mal2\_2$1 mal2\_3$1 mal2\_4$1] (tm1);

 [mal3\_1$1 mal3\_2$1 mal3\_3$1 mal3\_4$1] (tm2);

 [mal5\_1$1 mal5\_2$1 mal5\_3$1 mal5\_4$1] (tm3);

 [mal9\_1$1 mal9\_2$1 mal9\_3$1 mal9\_4$1] (tm4);

 [mal12\_1$1 mal12\_2$1 mal12\_3$1 mal12\_4$1] (tm5);

 [mal14\_1$1 mal14\_2$1 mal14\_3$1 mal14\_4$1] (tm6);

 [mal16\_1$1 mal16\_2$1 mal16\_3$1 mal16\_4$1] (tm7);

 [mal20\_1$1 mal20\_2$1 mal20\_3$1 mal20\_4$1] (tm8);

 [mal21\_1$1 mal21\_2$1 mal21\_3$1 mal21\_4$1] (tm9);

 [t1@0 t2@0 t3@0 t4@0 t5@0 t6@0 t7@0 t8@0 t9@0];

 mal2\_1@1 mal2\_2@1 mal2\_3@1 mal2\_4@1 ;

 mal3\_1@1 mal3\_2@1 mal3\_3@1 mal3\_4@1 ;

 mal5\_1@1 mal5\_2@1 mal5\_3@1 mal5\_4@1 ;

 mal9\_1@1 mal9\_2@1 mal9\_3@1 mal9\_4@1 ;

 mal12\_1@1 mal12\_2@1 mal12\_3@1 mal12\_4@1 ;

 mal14\_1@1 mal14\_2@1 mal14\_3@1 mal14\_4@1 ;

 mal16\_1@1 mal16\_2@1 mal16\_3@1 mal16\_4@1 ;

 mal20\_1@1 mal20\_2@1 mal20N@1 mal20\_4@1 ;

 mal21\_1@1 mal21\_2@1 mal21\_3@1 mal21\_4@1 ;