**Mplus syntax**

**1. Research Question 1 (An Example for Community Living Activities was provided below)**

**TITLE:** MTMM SIS-A Community Living Activities

**DATA:**
File is "SIS-A MTMM_After poms (ONLY 16-64 n = 129864).dat"

**VARIABLE:**
Names are

Number
A4F A4D A4T A5F A5D A5T A6F A6D A6T
A7F A7D A7T A8F A8D A8T
B1F B1D B1T B2F B2D B2T B3F B3D B3T
B4F B4D B4T B5F B5D B5T B6F B6D B6T
B7F B7D B7T B8F B8D B8T
C1F C1D C1T C2F C2D C2T C3F C3D C3T
C4F C4D C4T C5F C5D C5T C6F C6D C6T
C7F C7D C7T C8F C8D C8T C9F C9D C9T
D1F D1D D1T D2F D2D D2T D3F D3D D3T
D4F D4D D4T D5F D5D D5T D6F D6D D6T
D7F D7D D7T D8F D8D D8T
E1F E1D E1T E2F E2D E2T E3F E3D E3T
E4F E4D E4T E5F E5D E5T E6F E6D E6T
E7F E7D E7T E8F E8D E8T
F1F F1D F1T F2F F2D F2T F3F F3D F3T
F4F F4D F4T F5F F5D F5T F6F F6D F6T
F7F F7D F7T F8F F8D F8T
G1F G1D G1T G2F G2D G2T G3F G3D G3T
G4F G4D G4T G5F G5D G5T G6F G6D G6T
G7F G7D G7T G8F G8D G8T;

Missing are all (-999);

**USEVARIABLES ARE**
B1F B1D B1T B2F B2D B2T B3F B3D B3T
B4F B4D B4T B5F B5D B5T B6F B6D B6T
B7F B7D B7T B8F B8D B8T;

**ANALYSIS:**
estimator = ML;

**MODEL:**
B_ACT1 BY B1F* B1D B1T;
B_ACT2 BY B2F* B2D B2T;
B_ACT3 BY B3F* B3D B3T;
B_ACT4 BY B4F* B4D B4T;
B_ACT5 BY B5F* B5D B5T;
B_ACT6 BY B6F* B6D B6T;
B_ACT7 BY B7F* B7D B7T;
B_ACT8 BY B8F* B8D B8T;

B_ACT1@1;
B_ACT2@1;
B_ACT3@1;
B_ACT4@1;
B_ACT5@1;
B_ACT6@1;
B_ACT7@1;
B_ACT8@1;

METHOD_F BY B1F* B2F B3F B4F B5F B6F B7F B8F;
METHOD_D BY B1D* B2D B3D B4D B5D B6D B7D B8D;
METHOD_T BY B1T* B2T B3T B4T B5T B6T B7T B8T;

METHOD_T@1;
METHOD_F@1;
METHOD_D@1;

B_ACT1 WITH B_ACT2 B_ACT3 B_ACT4 B_ACT5 B_ACT6 B_ACT7 B_ACT8;
B_ACT2 WITH B_ACT3 B_ACT4 B_ACT5 B_ACT6 B_ACT7 B_ACT8;
B_ACT3 WITH B_ACT4 B_ACT5 B_ACT6 B_ACT7 B_ACT8;
B_ACT4 WITH B_ACT5 B_ACT6 B_ACT7 B_ACT8;
B_ACT5 WITH B_ACT6 B_ACT7 B_ACT8;
B_ACT6 WITH B_ACT7 B_ACT8;
B_ACT7 WITH B_ACT8;

METHOD_F WITH METHOD_D;
METHOD_F WITH METHOD_T;
METHOD_D WITH METHOD_T;

B_ACT1 WITH METHOD_F@0 METHOD_D@0 METHOD_T@0;
B_ACT2 WITH METHOD_F@0 METHOD_D@0 METHOD_T@0;
B_ACT3 WITH METHOD_F@0 METHOD_D@0 METHOD_T@0;
B_ACT4 WITH METHOD_F@0 METHOD_D@0 METHOD_T@0;
B_ACT5 WITH METHOD_F@0 METHOD_D@0 METHOD_T@0;
B_ACT6 WITH METHOD_F@0 METHOD_D@0 METHOD_T@0;
B_ACT7 WITH METHOD_F@0 METHOD_D@0 METHOD_T@0;
B_ACT8 WITH METHOD_F@0 METHOD_D@0 METHOD_T@0;

OUTPUT:
  STDYX;
  SAMPSTAT;
2. Research Question 2 (An Example for Community Living Activities was provided below)

TITLE: MTMM SIS-C Community Living Activities

DATA:
File is Combined Children's SIS n=4015.dat;

VARIABLE:
Names are
Number
A4T A4F A4D A5T A5F A5D A6T A6F A6D
A7T A7F A7D A8T A8F A8D A9T A9F A9D
B1T B1F B1D B2T B2F B2D B3T B3F B3D
B4T B4F B4D B5T B5F B5D B6T B6F B6D
B7T B7F B7D B8T B8F B8D
C1T C1F C1D C2T C2F C2D C3T C3F C3D
C4T C4F C4D C5T C5F C5D C6T C6F C6D
C7T C7F C7D C8T C8F C8D C9T C9F C9D
D1T D1F D1D D2T D2F D2D D3T D3F D3D
D4T D4F D4D D5T D5F D5D D6T D6F D6D
D7T D7F D7D D8T D8F D8D D9T D9F D9D
E1T E1F E1D E2T E2F E2D E3T E3F E3D
E4T E4F E4D E5T E5F E5D E6T E6F E6D
E7T E7F E7D E8T E8F E8D
F1T F1F F1D F2T F2F F2D F3T F3F F3D
F4T F4F F4D F5T F5F F5D F6T F6F F6D
F7T F7F F7D F8T F8F F8D F9T F9F F9D
G1T G1F G1D G2T G2F G2D G3T G3F G3D
G4T G4F G4D G5T G5F G5D G6T G6F G6D
G7T G7F G7D G8T G8F G8D G9T G9F G9D;
Missing are all (-999);

USEVARIABLES ARE
B1T B1F B1D B2T B2F B2D B3T B3F B3D
B4T B4F B4D B5T B5F B5D B6T B6F B6D
B7T B7F B7D B8T B8F B8D;

ANALYSIS:
estimator = ML;

MODEL:
B_ACT1 BY B1T* B1F B1D;
B_ACT2 BY B2T* B2F B2D;
B_ACT3 BY B3T* B3F B3D;
B_ACT4 BY B4T* B4F B4D;
B_ACT5 BY B5T* B5F B5D;
B_ACT6 BY B6T* B6F B6D;
B_ACT7 BY B7T* B7F B7D;
B_ACT8 BY B8T* B8F B8D;
METHOD_T BY B1T* B2T B3T B4T B5T B6T B7T B8T;
METHOD_F BY B1F* B2F B3F B4F B5F B6F B7F B8F;
METHOD_D BY B1D* B2D B3D B4D B5D B6D B7D B8D;

METHOD_T@1;
METHOD_F@1;
METHOD_D@1;

METHOD_T WITH METHOD_F METHOD_D;
METHOD_F WITH METHOD_D;

OUTPUT:
STDYX;
SAMPSTAT;
3. Research Question 3

1) Approach I (SIS-A; the sample syntax was provided)

TITLE: MTMM SIS-A Community Living Activities (Approach I)

DATA:
File is "SIS-A MTMM_After poms (ONLY 16-64 n = 129864).dat";

VARIABLE:
Names are
Number
A4F A4D A4T A5F A5D A5T A6F A6D A6T
A7F A7D A7T A8F A8D A8T
B1F B1D B1T B2F B2D B2T B3F B3D B3T
B4F B4D B4T B5F B5D B5T B6F B6D B6T
B7F B7D B7T B8F B8D B8T
C1F C1D C1T C2F C2D C2T C3F C3D C3T
C4F C4D C4T C5F C5D C5T C6F C6D C6T
C7F C7D C7T C8F C8D C8T C9F C9D C9T
D1F D1D D1T D2F D2D D2T D3F D3D D3T
D4F D4D D4T D5F D5D D5T D6F D6D D6T
D7F D7D D7T D8F D8D D8T
E1F E1D E1T E2F E2D E2T E3F E3D E3T
E4F E4D E4T E5F E5D E5T E6F E6D E6T
E7F E7D E7T E8F E8D E8T
F1F F1D F1T F2F F2D F2T F3F F3D F3T
F4F F4D F4T F5F F5D F5T F6F F6D F6T
F7F F7D F7T F8F F8D F8T
G1F G1D G1T G2F G2D G2T G3F G3D G3T
G4F G4D G4T G5F G5D G5T G6F G6D G6T
G7F G7D G7T G8F G8D G8T;

Missing are all (-999);

USEVARIABLES ARE
B1F B1D B1T B2F B2D B2T B3F B3D B3T
B4F B4D B4T B5F B5D B5T B6F B6D B6T
B7F B7D B7T B8F B8D B8T;

ANALYSIS:
estimator = ML;

MODEL:

B_ACT1 BY B1F*
   B1D (EC1)
   B1T;
B_ACT2 BY B2F*
   B2D
B8T;

METHOD_T@1;
METHOD_F@1;
METHOD_D@1;

B_ACT1 WITH B_ACT2 B_ACT3 B_ACT4 B_ACT5 B_ACT6 B_ACT7 B_ACT8;
B_ACT2 WITH B_ACT3 B_ACT4 B_ACT5 B_ACT6 B_ACT7 B_ACT8;
B_ACT3 WITH B_ACT4 B_ACT5 B_ACT6 B_ACT7 B_ACT8;
B_ACT4 WITH B_ACT5 B_ACT6 B_ACT7 B_ACT8;
B_ACT5 WITH B_ACT6 B_ACT7 B_ACT8;
B_ACT6 WITH B_ACT7 B_ACT8;
B_ACT7 WITH B_ACT8;

METHOD_F WITH METHOD_D;
METHOD_F WITH METHOD_T;
METHOD_D WITH METHOD_T;

B_ACT1 WITH METHOD_F@0 METHOD_D@0 METHOD_T@0;
B_ACT2 WITH METHOD_F@0 METHOD_D@0 METHOD_T@0;
B_ACT3 WITH METHOD_F@0 METHOD_D@0 METHOD_T@0;
B_ACT4 WITH METHOD_F@0 METHOD_D@0 METHOD_T@0;
B_ACT5 WITH METHOD_F@0 METHOD_D@0 METHOD_T@0;
B_ACT6 WITH METHOD_F@0 METHOD_D@0 METHOD_T@0;
B_ACT7 WITH METHOD_F@0 METHOD_D@0 METHOD_T@0;
B_ACT8 WITH METHOD_F@0 METHOD_D@0 METHOD_T@0;

Model constraint:
New(diff);
diff = EC1 - EC2;

OUTPUT:
  STDX;
  SAMPSTAT;
2) Approach I (SIS-C; the sample syntax was provided)

TITLE: MTMM SIS-C Community Living Activities (Approach I)

DATA:
File is Combined Children's SIS n=4015.dat;

VARIABLE:
Names are
Number
A4T A4F A4D A5T A5F A5D A6T A6F A6D
A7T A7F A7D A8T A8F A8D A9T A9F A9D
B1T B1F B1D B2T B2F B2D B3T B3F B3D
B4T B4F B4D B5T B5F B5D B6T B6F B6D
B7T B7F B7D B8T B8F B8D
C1T C1F C1D C2T C2F C2D C3T C3F C3D
C4T C4F C4D C5T C5F C5D C6T C6F C6D
C7T C7F C7D C8T C8F C8D C9T C9F C9D
D1T D1F D1D D2T D2F D2D D3T D3F D3D
D4T D4F D4D D5T D5F D5D D6T D6F D6D
D7T D7F D7D D8T D8F D8D D9T D9F D9D
E1T E1F E1D E2T E2F E2D E3T E3F E3D
E4T E4F E4D E5T E5F E5D E6T E6F E6D
E7T E7F E7D E8T E8F E8D
F1T F1F F1D F2T F2F F2D F3T F3F F3D
F4T F4F F4D F5T F5F F5D F6T F6F F6D
F7T F7F F7D F8T F8F F8D F9T F9F F9D
G1T G1F G1D G2T G2F G2D G3T G3F G3D
G4T G4F G4D G5T G5F G5D G6T G6F G6D
G7T G7F G7D G8T G8F G8D G9T G9F G9D;
Missing are all (-999);

USEVARIABLES ARE
B1T B1F B1D B2T B2F B2D B3T B3F B3D
B4T B4F B4D B5T B5F B5D B6T B6F B6D
B7T B7F B7D B8T B8F B8D;

ANALYSIS:
estimator = ML;

MODEL:

B_ACT1 BY B1T*
   B1F
   B1D (EC1);

B_ACT2 BY B2T*
   B2F
   B2D;

B_ACT3 BY B3T*
   B3F
B3D;
_B_ACT4 BY B4T*
  B4F
  B4D;
_B_ACT5 BY B5T*
  B5F
  B5D;
_B_ACT6 BY B6T*
  B6F
  B6D;
_B_ACT7 BY B7T*
  B7F
  B7D;
_B_ACT8 BY B8T*
  B8F
  B8D;

_B_ACT1@1;
_B_ACT2@1;
_B_ACT3@1;
_B_ACT4@1;
_B_ACT5@1;
_B_ACT6@1;
_B_ACT7@1;
_B_ACT8@1;

METHOD_T BY B1T*
  B2T
  B3T
  B4T
  B5T
  B6T
  B7T
  B8T;
METHOD_F BY B1F*
  B2F
  B3F
  B4F
  B5F
  B6F
  B7F
  B8F;
METHOD_D BY B1D*(EC2)
  B2D
  B3D
  B4D
  B5D
  B6D
  B7D
  B8D;
B_ACT1 WITH B_ACT2 B_ACT3 B_ACT4 B_ACT5 B_ACT6 B_ACT7 B_ACT8;
B_ACT2 WITH B_ACT3 B_ACT4 B_ACT5 B_ACT6 B_ACT7 B_ACT8;
B_ACT3 WITH B_ACT4 B_ACT5 B_ACT6 B_ACT7 B_ACT8;
B_ACT4 WITH B_ACT5 B_ACT6 B_ACT7 B_ACT8;
B_ACT5 WITH B_ACT6 B_ACT7 B_ACT8;
B_ACT6 WITH B_ACT7 B_ACT8;
B_ACT7 WITH B_ACT8;

METHOD_T WITH METHOD_F METHOD_D;
METHOD_F WITH METHOD_D;

B_ACT1 WITH METHOD_T@0 METHOD_D@0 METHOD_F@0;
B_ACT2 WITH METHOD_T@0 METHOD_D@0 METHOD_F@0;
B_ACT3 WITH METHOD_T@0 METHOD_D@0 METHOD_F@0;
B_ACT4 WITH METHOD_T@0 METHOD_D@0 METHOD_F@0;
B_ACT5 WITH METHOD_T@0 METHOD_D@0 METHOD_F@0;
B_ACT6 WITH METHOD_T@0 METHOD_D@0 METHOD_F@0;
B_ACT7 WITH METHOD_T@0 METHOD_D@0 METHOD_F@0;
B_ACT8 WITH METHOD_T@0 METHOD_D@0 METHOD_F@0;

Model constraint:
New(diff);
diff = EC1 - EC2;

OUTPUT:
  STDYX;
  SAMPSTAT;
3) Approach II (SIS-A; the sample syntax was provided)

TITLE: MTMM SIS-A Community Living Activities (Approach II) DST METHOD

DATA:
File is "SIS-A MTMM_After poms (ONLY 16-64 n = 129864).dat";

VARIABLE:
Names are
Number
A4F A4D A4T A5F A5D A5T A6F A6D A6T
A7F A7D A7T A8F A8D A8T
B1F B1D B1T B2F B2D B2T B3F B3D B3T
B4F B4D B4T B5F B5D B5T B6F B6D B6T
B7F B7D B7T B8F B8D B8T
C1F C1D C1T C2F C2D C2T C3F C3D C3T
C4F C4D C4T C5F C5D C5T C6F C6D C6T
C7F C7D C7T C8F C8D C8T C9F C9D C9T
D1F D1D D1T D2F D2D D2T D3F D3D D3T
D4F D4D D4T D5F D5D D5T D6F D6D D6T
D7F D7D D7T D8F D8D D8T
E1F E1D E1T E2F E2D E2T E3F E3D E3T
E4F E4D E4T E5F E5D E5T E6F E6D E6T
E7F E7D E7T E8F E8D E8T
F1F F1D F1T F2F F2D F2T F3F F3D F3T
F4F F4D F4T F5F F5D F5T F6F F6D F6T
F7F F7D F7T F8F F8D F8T
G1F G1D G1T G2F G2D G2T G3F G3D G3T
G4F G4D G4T G5F G5D G5T G6F G6D G6T
G7F G7D G7T G8F G8D G8T;

Missing are all (-999);

USEVARIABLES ARE
B1F B1D B1T B2F B2D B2T B3F B3D B3T
B4F B4D B4T B5F B5D B5T B6F B6D B6T
B7F B7D B7T B8F B8D B8T;

ANALYSIS:
estimator = ML;

MODEL:

B_ACT1 BY B1F*
   B1D(T1)
   B1T;

B_ACT2 BY B2F*
   B2D(T2)
   B2T;

B_ACT3 BY B3F*
   B3D(T3)
B3T;
B_ACT4 BY B4F*
  B4D(T4)
  B4T;
B_ACT5 BY B5F*
  B5D(T5)
  B5T;
B_ACT6 BY B6F*
  B6D(T6)
  B6T;
B_ACT7 BY B7F*
  B7D(T7)
  B7T;
B_ACT8 BY B8F*
  B8D(T8)
  B8T;

B_ACT1@1;
B_ACT2@1;
B_ACT3@1;
B_ACT4@1;
B_ACT5@1;
B_ACT6@1;
B_ACT7@1;
B_ACT8@1;

METHOD_F BY B1F*
  B2F
  B3F
  B4F
  B5F
  B6F
  B7F
  B8F;
METHOD_D BY B1D*(M1)
  B2D (M2)
  B3D (M3)
  B4D (M4)
  B5D (M5)
  B6D (M6)
  B7D (M7)
  B8D (M8);
METHOD_T BY B1T*
  B2T
  B3T
  B4T
  B5T
  B6T
  B7T
  B8T;
METHOD_T@1;
METHOD_F@1;
METHOD_D@1;

B_ACT1 WITH B_ACT2 B_ACT3 B_ACT4 B_ACT5 B_ACT6 B_ACT7 B_ACT8;
B_ACT2 WITH B_ACT3 B_ACT4 B_ACT5 B_ACT6 B_ACT7 B_ACT8;
B_ACT3 WITH B_ACT4 B_ACT5 B_ACT6 B_ACT7 B_ACT8;
B_ACT4 WITH B_ACT5 B_ACT6 B_ACT7 B_ACT8;
B_ACT5 WITH B_ACT6 B_ACT7 B_ACT8;
B_ACT6 WITH B_ACT7 B_ACT8;
B_ACT7 WITH B_ACT8;

METHOD_F WITH METHOD_D;
METHOD_F WITH METHOD_T;
METHOD_D WITH METHOD_T;

B_ACT1 WITH METHOD_F@0 METHOD_D@0 METHOD_T@0;
B_ACT2 WITH METHOD_F@0 METHOD_D@0 METHOD_T@0;
B_ACT3 WITH METHOD_F@0 METHOD_D@0 METHOD_T@0;
B_ACT4 WITH METHOD_F@0 METHOD_D@0 METHOD_T@0;
B_ACT5 WITH METHOD_F@0 METHOD_D@0 METHOD_T@0;
B_ACT6 WITH METHOD_F@0 METHOD_D@0 METHOD_T@0;
B_ACT7 WITH METHOD_F@0 METHOD_D@0 METHOD_T@0;
B_ACT8 WITH METHOD_F@0 METHOD_D@0 METHOD_T@0;

Model constraint:
New(AVER_T);
AVER_T = (T1+T2+T3+T4+T5+T6+T7+T8)/8;

New(AVER_M);
AVER_M = (M1+M2+M3+M4+M5+M6+M7+M8)/8;

New(diff);
diff = AVER_T - AVER_M;

OUTPUT:
STDYX;
SAMPSTAT;
DATA:
   File is "SIS-A MTMM_After Poms (ONLY 16-64 n = 129864).dat";

VARIABLE:
   Names are
   Number
   A4F A4D A4T A5F A5D A5T A6F A6D A6T
   A7F A7D A7T A8F A8D A8T
   B1F B1D B1T B2F B2D B2T B3F B3D B3T
   B4F B4D B4T B5F B5D B5T B6F B6D B6T
   B7F B7D B7T B8F B8D B8T
   C1F C1D C1T C2F C2D C2T C3F C3D C3T
   C4F C4D C4T C5F C5D C5T C6F C6D C6T
   C7F C7D C7T C8F C8D C8T C9F C9D C9T
   D1F D1D D1T D2F D2D D2T D3F D3D D3T
   D4F D4D D4T D5F D5D D5T D6F D6D D6T
   D7F D7D D7T D8F D8D D8T
   E1F E1D E1T E2F E2D E2T E3F E3D E3T
   E4F E4D E4T E5F E5D E5T E6F E6D E6T
   E7F E7D E7T E8F E8D E8T
   F1F F1D F1T F2F F2D F2T F3F F3D F3T
   F4F F4D F4T F5F F5D F5T F6F F6D F6T
   F7F F7D F7T F8F F8D F8T
   G1F G1D G1T G2F G2D G2T G3F G3D G3T
   G4F G4D G4T G5F G5D G5T G6F G6D G6T
   G7F G7D G7T G8F G8D G8T;
   Missing are all (-999);

USEVARIABLES ARE
   B1F B1D B1T B2F B2D B2T B3F B3D B3T
   B4F B4D B4T B5F B5D B5T B6F B6D B6T
   B7F B7D B7T B8F B8D B8T;

ANALYSIS:
   estimator = ML;

MODEL:

B_ACT1 BY B1F*(T1)
   B1D (T2)
   B1T (T3);

B_ACT2 BY B2F* (T4)
   B2D (T5)
   B2T (T6);

B_ACT3 BY B3F* (T7)
   B3D (T8)
   B3T (T9);

B_ACT4 BY B4F* (T10)
B4D (T11)
B4T(T12);
B_ACT5 BY B5F*(T13)
B5D (T14)
B5T(T15);
B_ACT6 BY B6F*(T16)
B6D (T17)
B6T(T18);
B_ACT7 BY B7F*(T19)
B7D (T20)
B7T(T21);
B_ACT8 BY B8F*(T22)
B8D (T23)
B8T(T24);
B_ACT1@1;
B_ACT2@1;
B_ACT3@1;
B_ACT4@1;
B_ACT5@1;
B_ACT6@1;
B_ACT7@1;
B_ACT8@1;

METHOD_F BY B1F*(M1)
B2F(M2)
B3F(M3)
B4F(M4)
B5F(M5)
B6F(M6)
B7F(M7)
B8F(M8);

METHOD_D BY B1D*(M9)
B2D(M10)
B3D(M11)
B4D(M12)
B5D(M13)
B6D(M14)
B7D(M15)
B8D(M16);

METHOD_T BY B1T*(M17)
B2T(M18)
B3T(M19)
B4T(M20)
B5T(M21)
B6T(M22)
B7T(M23)
B8T(M24);

METHOD_T@1;
METHOD_F@1;
METHOD_D@1;
B_ACT1 WITH B_ACT2 B_ACT3 B_ACT4 B_ACT5 B_ACT6 B_ACT7 B_ACT8;
B_ACT2 WITH B_ACT3 B_ACT4 B_ACT5 B_ACT6 B_ACT7 B_ACT8;
B_ACT3 WITH B_ACT4 B_ACT5 B_ACT6 B_ACT7 B_ACT8;
B_ACT4 WITH B_ACT5 B_ACT6 B_ACT7 B_ACT8;
B_ACT5 WITH B_ACT6 B_ACT7 B_ACT8;
B_ACT6 WITH B_ACT7 B_ACT8;
B_ACT7 WITH B_ACT8;

METHOD_F WITH METHOD_D;
METHOD_F WITH METHOD_T;
METHOD_D WITH METHOD_T;

B_ACT1 WITH METHOD_F@0 METHOD_D@0 METHOD_T@0;
B_ACT2 WITH METHOD_F@0 METHOD_D@0 METHOD_T@0;
B_ACT3 WITH METHOD_F@0 METHOD_D@0 METHOD_T@0;
B_ACT4 WITH METHOD_F@0 METHOD_D@0 METHOD_T@0;
B_ACT5 WITH METHOD_F@0 METHOD_D@0 METHOD_T@0;
B_ACT6 WITH METHOD_F@0 METHOD_D@0 METHOD_T@0;
B_ACT7 WITH METHOD_F@0 METHOD_D@0 METHOD_T@0;
B_ACT8 WITH METHOD_F@0 METHOD_D@0 METHOD_T@0;

Model constraint:
New(AVER_T);
AVER_T = (T1+T2+T3+T4+T5+T6+T7+T8+T9+T10
 +T11+T12+T13+T14+T15+T16+T17+T18+T19+T20
 +T21+T22+T23+T24)/24;

New(AVER_M);
AVER_M = (M1+M2+M3+M4+M5+M6+M7+M8+M9+M10
 +M11+M12+M13+M14+M15+M16+M17+M18+M19+M20
 +M21+M22+M23+M24)/24;

New(diff);
diff = AVER_T - AVER_M;

OUTPUT:
  STDX;
  SAMPSTAT;
4) Approach II (SIS-C; the sample syntax was provided)

TITLE: MTMM SIS-C Community Living Activities (Approach II) DST METHOD

DATA:
File is Combined Children's SIS n=4015.dat;

VARIABLE:
Names are
Number
A4T A4F A4D A5T A5F A5D A6T A6F A6D
A7T A7F A7D A8T A8F A8D A9T A9F A9D
B1T B1F B1D B2T B2F B2D B3T B3F B3D
B4T B4F B4D B5T B5F B5D B6T B6F B6D
B7T B7F B7D B8T B8F B8D
C1T C1F C1D C2T C2F C2D C3T C3F C3D
C4T C4F C4D C5T C5F C5D C6T C6F C6D
C7T C7F C7D C8T C8F C8D C9T C9F C9D
D1T D1F D1D D2T D2F D2D D3T D3F D3D
D4T D4F D4D D5T D5F D5D D6T D6F D6D
D7T D7F D7D D8T D8F D8D D9T D9F D9D
E1T E1F E1D E2T E2F E2D E3T E3F E3D
E4T E4F E4D E5T E5F E5D E6T E6F E6D
E7T E7F E7D E8T E8F E8D
F1T F1F F1D F2T F2F F2D F3T F3F F3D
F4T F4F F4D F5T F5F F5D F6T F6F F6D
F7T F7F F7D F8T F8F F8D F9T F9F F9D
G1T G1F G1D G2T G2F G2D G3T G3F G3D
G4T G4F G4D G5T G5F G5D G6T G6F G6D
G7T G7F G7D G8T G8F G8D G9T G9F G9D;
Missing are all (-999);

USEVARIABLES ARE
B1T B1F B1D B2T B2F B2D B3T B3F B3D
B4T B4F B4D B5T B5F B5D B6T B6F B6D
B7T B7F B7D B8T B8F B8D;

ANALYSIS:
estimator = ML;

MODEL:

B_ACT1 BY B1T*
    B1F
    B1D(T1);
B_ACT2 BY B2T*
    B2F
    B2D(T2);
B_ACT3 BY B3T*
    B3F
METHOD_T@1;  
METHOD_F@1;  
METHOD_D@1;  

B_ACT1 WITH B_ACT2 B_ACT3 B_ACT4 B_ACT5 B_ACT6 B_ACT7 B_ACT8;  
B_ACT2 WITH B_ACT3 B_ACT4 B_ACT5 B_ACT6 B_ACT7 B_ACT8;  
B_ACT3 WITH B_ACT4 B_ACT5 B_ACT6 B_ACT7 B_ACT8;  
B_ACT4 WITH B_ACT5 B_ACT6 B_ACT7 B_ACT8;  
B_ACT5 WITH B_ACT6 B_ACT7 B_ACT8;  
B_ACT6 WITH B_ACT7 B_ACT8;  
B_ACT7 WITH B_ACT8;  

METHOD_T WITH METHOD_F METHOD_D;  
METHOD_F WITH METHOD_D;

B_ACT1 WITH METHOD_T@0 METHOD_D@0 METHOD_F@0;  
B_ACT2 WITH METHOD_T@0 METHOD_D@0 METHOD_F@0;  
B_ACT3 WITH METHOD_T@0 METHOD_D@0 METHOD_F@0;  
B_ACT4 WITH METHOD_T@0 METHOD_D@0 METHOD_F@0;  
B_ACT5 WITH METHOD_T@0 METHOD_D@0 METHOD_F@0;  
B_ACT6 WITH METHOD_T@0 METHOD_D@0 METHOD_F@0;  
B_ACT7 WITH METHOD_T@0 METHOD_D@0 METHOD_F@0;  
B_ACT8 WITH METHOD_T@0 METHOD_D@0 METHOD_F@0;

Model constraint:  
New(AVER_T);  
AVER_T = (T1+T2+T3+T4+T5+T6+T7+T8)/8;

New(AVER_M);  
AVER_M = (M1+M2+M3+M4+M5+M6+M7+M8)/8;

New(diff);  
diff = AVER_T - AVER_M;

OUTPUT:  
STDX;  
SAMPSTAT;
TITLE: MTMM SIS-C Community Living Activities (Approach II) across METHODS

DATA:
File is Combined Children's SIS n=4015.dat;

VARIABLE:
Names are
Number
A4T A4F A4D A5T A5F A5D A6T A6F A6D
A7T A7F A7D A8T A8F A8D A9T A9F A9D
B1T B1F B1D B2T B2F B2D B3T B3F B3D
B4T B4F B4D B5T B5F B5D B6T B6F B6D
B7T B7F B7D B8T B8F B8D
C1T C1F C1D C2T C2F C2D C3T C3F C3D
C4T C4F C4D C5T C5F C5D C6T C6F C6D
C7T C7F C7D C8T C8F C8D C9T C9F C9D
D1T D1F D1D D2T D2F D2D D3T D3F D3D
D4T D4F D4D D5T D5F D5D D6T D6F D6D
D7T D7F D7D D8T D8F D8D D9T D9F D9D
E1T E1F E1D E2T E2F E2D E3T E3F E3D
E4T E4F E4D E5T E5F E5D E6T E6F E6D
E7T E7F E7D E8T E8F E8D
F1T F1F F1D F2T F2F F2D F3T F3F F3D
F4T F4F F4D F5T F5F F5D F6T F6F F6D
F7T F7F F7D F8T F8F F8D F9T F9F F9D
G1T G1F G1D G2T G2F G2D G3T G3F G3D
G4T G4F G4D G5T G5F G5D G6T G6F G6D
G7T G7F G7D G8T G8F G8D G9T G9F G9D;
Missing are all (-999);

USEVARIABLES ARE
B1T B1F B1D B2T B2F B2D B3T B3F B3D
B4T B4F B4D B5T B5F B5D B6T B6F B6D
B7T B7F B7D B8T B8F B8D;

ANALYSIS:
estimator = ML;

MODEL:

B_ACT1 BY B1T*(T1)
   B1F (T2)
   B1D (T3);
B_ACT2 BY B2T*(T4)
   B2F (T5)
   B2D (T6);
B_ACT3 BY B3T*(T7)
   B3F (T8)
   B3D (T9);
B_ACT4 BY B4T*(T10)
  B4F (T11)
  B4D (T12);
B_ACT5 BY B5T*(T13)
  B5F (T14)
  B5D (T15);
B_ACT6 BY B6T*(T16)
  B6F (T17)
  B6D (T18);
B_ACT7 BY B7T*(T19)
  B7F (T20)
  B7D (T21);
B_ACT8 BY B8T*(T22)
  B8F (T23)
  B8D (T24);

B_ACT1@1;
B_ACT2@1;
B_ACT3@1;
B_ACT4@1;
B_ACT5@1;
B_ACT6@1;
B_ACT7@1;
B_ACT8@1;

METHOD_T BY B1T* (M1)
  B2T (M2)
  B3T (M3)
  B4T (M4)
  B5T (M5)
  B6T (M6)
  B7T (M7)
  B8T (M8);
METHOD_F BY B1F*(M9)
  B2F (M10)
  B3F (M11)
  B4F (M12)
  B5F (M13)
  B6F (M14)
  B7F (M15)
  B8F (M16);
METHOD_D BY B1D* (M17)
  B2D (M18)
  B3D (M19)
  B4D (M20)
  B5D (M21)
  B6D (M22)
  B7D (M23)
  B8D (M24);
METHOD_T@1;
METHOD_F@1;
METHOD_D@1;

B_ACT1 WITH B_ACT2 B_ACT3 B_ACT4 B_ACT5 B_ACT6 B_ACT7 B_ACT8;
B_ACT2 WITH B_ACT3 B_ACT4 B_ACT5 B_ACT6 B_ACT7 B_ACT8;
B_ACT3 WITH B_ACT4 B_ACT5 B_ACT6 B_ACT7 B_ACT8;
B_ACT4 WITH B_ACT5 B_ACT6 B_ACT7 B_ACT8;
B_ACT5 WITH B_ACT6 B_ACT7 B_ACT8;
B_ACT6 WITH B_ACT7 B_ACT8;
B_ACT7 WITH B_ACT8;

METHOD_T WITH METHOD_F METHOD_D;
METHOD_F WITH METHOD_D;

B_ACT1 WITH METHOD_T@0 METHOD_D@0 METHOD_F@0;
B_ACT2 WITH METHOD_T@0 METHOD_D@0 METHOD_F@0;
B_ACT3 WITH METHOD_T@0 METHOD_D@0 METHOD_F@0;
B_ACT4 WITH METHOD_T@0 METHOD_D@0 METHOD_F@0;
B_ACT5 WITH METHOD_T@0 METHOD_D@0 METHOD_F@0;
B_ACT6 WITH METHOD_T@0 METHOD_D@0 METHOD_F@0;
B_ACT7 WITH METHOD_T@0 METHOD_D@0 METHOD_F@0;
B_ACT8 WITH METHOD_T@0 METHOD_D@0 METHOD_F@0;

Model constraint:
New(AVER_T);
AVER_T = (T1+T2+T3+T4+T5+T6+T7+T8+T9+T10
    +T11+T12+T13+T14+T15+T16+T17+T18+T19+T20
    +T21+T22+T23+T24)/24;

New(AVER_M);
AVER_M = (M1+M2+M3+M4+M5+M6+M7+M8+M9+M10
    +M11+M12+M13+M14+M15+M16+M17+M18+M19+M20
    +M21+M22+M23+M24)/24;

New(diff);
diff = AVER_T - AVER_M;

OUTPUT:
  STDYX;
  SAMPSTAT;