

The following Mplus input produces a plot of the model-estimated trajectories of two latent classes using data from Users Guide example 8.1. Estimated means and their 95% confidence intervals are computed at different time points. This uses the MODEL CONSTRAINT command options PLOT and LOOP.

The next page shows the Loop plot option of the Plot menu used to produce the desired plot shown on the last page.

```

TITLE:                this is an example of a GMM for a continuous
                      outcome using automatic starting values and random starts
DATA:                 FILE IS ex8.1.dat;
VARIABLE:             NAMES ARE y1-y4 x;
                      USEVARIABLES = y1-y4;
                      CLASSES = c (2);
ANALYSIS:             TYPE = MIXTURE;
                      STARTS = 40 8;
MODEL:                %OVERALL%
                      i s | y1@0 y2@1 y3@2 y4@3;
                      ! i s ON x;
                      ! c ON x;
                      %c#1%
                      [i-s] (p1-p2);
                      %c#2%
                      [i-s] (p3-p4);
OUTPUT:               TECH1 TECH8;
PLOT:                 SERIES = y1-y4 (s);
                      TYPE = PLOT2;
MODEL CONSTRAINT:    PLOT(class1 class2);
                      LOOP(time,0,3,0.1);
                      class1 = p1+time*p2;
                      class2 = p3+time*p4;

```

Figure 1: Plot Menu

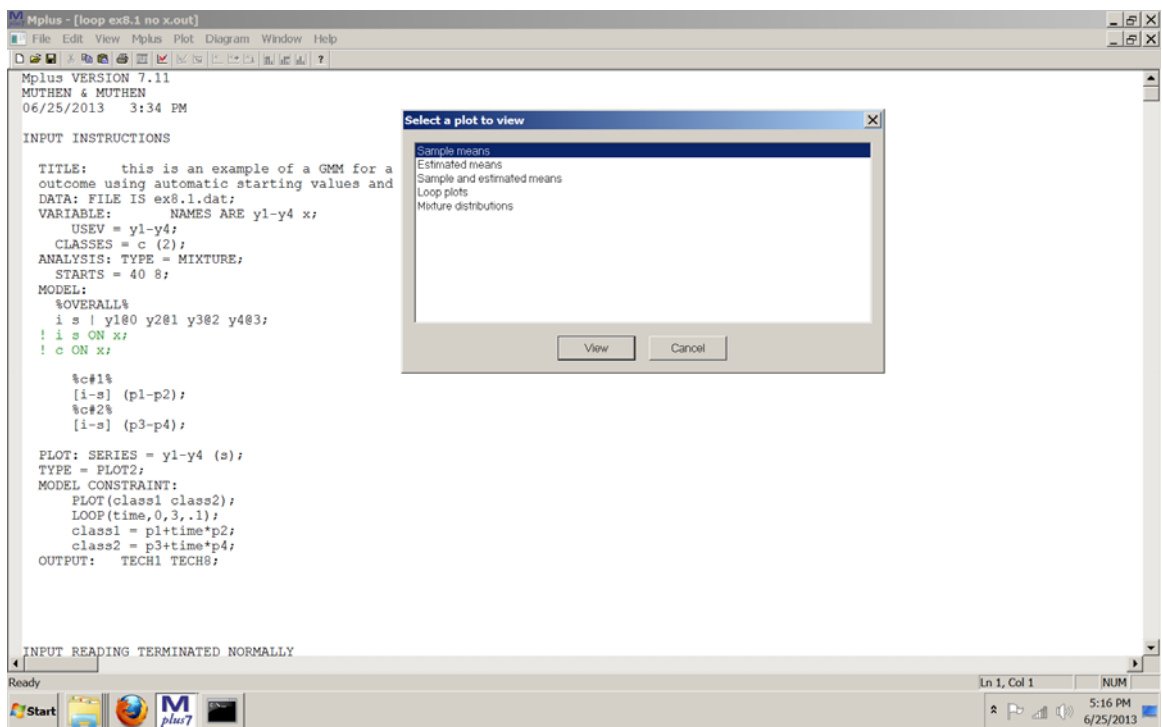


Figure 2: Loop Plot

