GMM Analysis Strategies

A. Analyze without x's

A1. Let only the growth factor means be different across classes while every other parameter is class-invariant (this is the default). Look at the graphics using the Estimated means and observed individual values plot and determine if any class needs its own class-specific variance.

A2. Re-analyze with a class-specific variance in line with findings in A1. See how class formation changes relative to step A1.

B. Add x's, looking for changes in class formation relative to step A2 (see Muthen, 2004, in the Kaplan handbook).

B1. Analyze with the default class-invariance, which includes class-invariant regressions of growth factors on x.

B2. Test for class-varying growth factor slopes on x.

C. Add distal u (or y)

C1. Class-invariant u on x

C2. Test for class-varying u on x.