

Q: In a TWOLEVEL model, is there a way in Mplus to save the values of the second level residuals?

A: To get the residual for each cluster, you can either subtract  $\hat{\beta} \cdot x_b$  from the random intercept for yb, or turn the residual into a factor and get its factor score. Here is how you turn the residual into a factor:

```
%BETWEEN%  
yb ON xb;  
yb@0;  
f BY yb@1;
```

```
SAVEDATA:  
  FILE = FS.dat;  
  SAVE = FSCORES;
```

You also get B\_YB, and B\_YB\_SE, which are the factor scores and standard errors for the random intercepts YB.