

Mplus 8.3 simplifies the language needed to obtain bootstrap standard errors for TYPE=COMPLEX estimation and TYPE=GENERAL with weights. In Mplus 8.2 and prior versions, it was possible to obtain such bootstrap standard errors using the general resampling methodology discussed here

http://www.statmodel.com/download/Resampling_Methods5.pdf

using the REPSE=BOOTSTRAP option. Often, however, the setup for such analysis required additional steps such as introducing a weight variable (when not available) or strata (when not available). In the new Mplus version the language has been simplified. To trigger the bootstrap standard errors one needs to specify only the number of bootstrap draws, regardless of which type of analysis it is, e.g.

```
BOOTSTRAP = 500;
```

This is the case for standard bootstrap analysis based on simple random sampling, bootstrap analysis for data with sampling weights using TYPE=GENERAL, and TYPE=COMPLEX analysis where cluster or strata variables are present in the data. This methodology is also extended to Mplus analysis based on TYPE=MIXTURE, ALGORITHM=INTEGRATION, and TYPE=RANDOM with ML estimation. Note that the correct specification for the estimator is ESTIMATOR=ML, rather than ESTIMATOR=MLR, which is used for TYPE=COMPLEX estimation without the bootstrap specification.