



# KUANT Guides

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KUANT 009.1

## LISREL's RP option:

*Geldhof, G.J., Selig, J.P. & McConnell, E.K. (2008)*

[www.quant.ku.edu](http://www.quant.ku.edu)

### LISREL's RP Option for Multiple Data Sets

LISREL is capable of running a single syntax file across multiple data sets by adding the RP option to the DA line. To make use of this function, use a single data set that contains the information for all repetitions. Specify the number of groups and indicators as normal, and type RP= x, where x is the number of times the syntax should be repeated.

In the below example, the file "boot5.dat" contains 19 indicators (NI=19) and five repetitions (RP = 5) of 380 observations (NO = 380), with 1 group per repetition (NG = 1). The data file therefore contains 1900 (= 380 \* 5) observations in total.

```
DA NG=1 NI=19 MA=CM ME=ML NO=380 RP=5  
RA=boot5.dat
```

When the RP option is used, it is necessary to combine the parameter estimates across groups. For instance, when combining estimates across multiple imputations, Rubin's (1987) rules should be used. When combining estimates across several bootstrapped samples, 90% or 95% confidence intervals should be created for the parameter estimates. LISREL is unable to combine parameter estimates in these ways, but it is able to output estimates into an external file which can then be imported into your favorite statistics package and manipulated.

All output options can be placed on the OU line, and follow the same format as outputting a regular matrix. Adding "PV=output.pv" to the OU line will create an external file called 'output.pv', which contains all of the freely estimate parameters in the order that they were assigned in the parameter specifications section. Similarly, adding "SV =<filename>" will create a file of standard errors in the same order as the parameter specifications and adding "GF= <filename>" will create an external file containing all goodness of fit statistics (and their respective *p*-values) in the order that they appear in the LISREL output.

#### **Caveats:**

1. The RP option is not compatible with the .psf file type. You must therefore provide the data as a .dat file or provide an appropriate set of matrices
2. LISREL version 8.80 has a bug that prevents the RP option from working. The patch for this bug is not downloadable but it is available from us upon request.
3. Using the RP option with a large number of imputations or resamples can result in a very large output file. To limit this, use the XO=<number> option on the OU line, where <number> represents the number of repetitions that you want displayed in the output file.