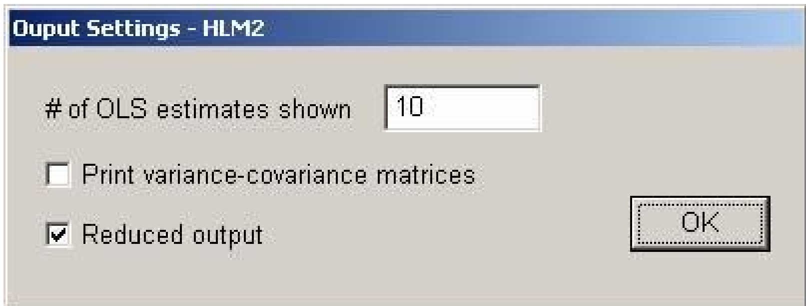
Print variance-covariance matrices

There are a few options relating to the output that can be selected on the **Other Settings**, **Output Settings** menu. A two-level model using the HS&B data is used for illustrative purposes here.



- The **Print variance-covariance matrices** option controls the creation of the output files containing the variance-covariance matrices.
- The **# of** OLS **estimates shown** and **Reduced output** options are discussed elsewhere.

Note that the **Print variance-covariance matrices** option is only available for HLM2, HLM3, and HGLM models. Availability of the various files for the different models are summarized in the table below.

Additional output file	Available in		
	HLM2	HLM3	HGLM
tauvc.dat	Y	Y	Y
gamvc.dat	Y	Y	-
gamvcr.dat	Y	Y	-
gamvcus.dat	-	-	Y
gamvcpa.dat	-	-	Y
gamvcpar.dat	-	-	Y
gamvcl.dat*	-	-	Y
lvralpha.dat**	Y	Y	Y

***gamvcl.dat** is only available when Laplace iterations are requested during a HGLM analysis.
****lvralpha.dat** is only produced when latent variable regression is performed.

If, for example, the **variance-covariance matrices** were requested for our HLM2 example, the following additional output files would be created:

- **gamvc.dat**, containing the gammas and gamma variance-covariance matrix.
- **gamvcr.dat**, containing the gammas and the gamma variance-covariance matrix used to compute the robust standard errors.
- **tauvc.dat**, which contains tau(pi), tau(beta), and the inverse of the information matrix.