Introduction

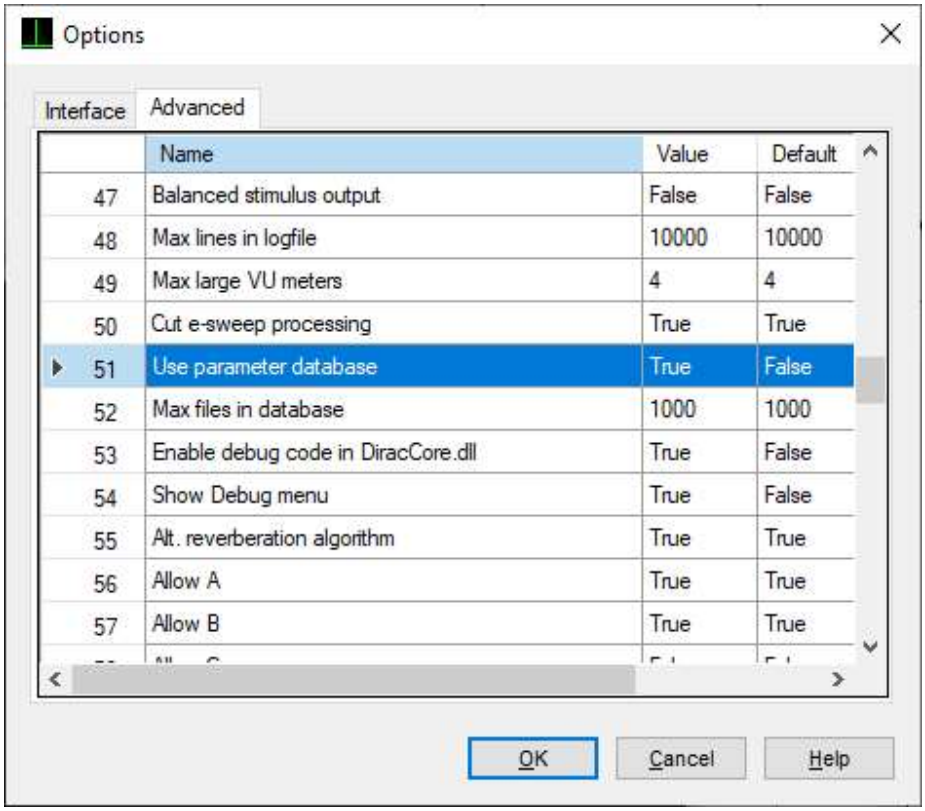
The parameter database in Dirac 7 is used to store the results of parameter calculations. Whenever a set of parameters is calculated for a given file, they are stored in the database, and in subsequent uses of that file the parameters can be retrieved from the database, resulting in a time saving.

As an example, consider the timings collected below for the INR parameter, from a random project containing 15 files:

Condition	Process time [mm:ss]
Database turned off	2:02
Database active but empty	5:13
Database contains calculated values	0:28

Activation

By default, the parameter database feature is turned off. To turn the feature on, open the Advanced Settings dialog (Setup – Options – F10):



Set the option (51) 'Use parameter database' to True. Option (52) 'Max files in database' can be set to any value between 0 and 1000000. The optimum default (1000) and maximum are to be determined.

Implementation

The (SQLite) database is stored in the folder 'C:\ProgramData\BRUEL AND KJAER\ENV\B&K7841 V7' and named 'Params.db'. This file can be deleted at any time (while Dirac is not running) without consequences.

When Dirac starts (while the startup window is visible), the database will be resized to the specified maximum number of files, where the least recently used files are the first to be deleted from the database.

Each .wav created by Dirac is given a GUID (Globally Unique Identifier) to identify the file. This GUID can be seen in the File Properties dialog. Any change to the file, e.g. as the result of an Edit action or a change in the file properties, causes Dirac to update the GUID, and remove all entries related to that GUID from the database.