db extract – Data Extraction S40

Software of the KLIPPEL ANALYZER SYSTEM (Document Revision 1.3)

Version 3.162, dB-Lab 210.560

FEATURES

- Extraction of binary databases to text-based files
- Scilab (HDF5) export
- Store and re-use settings
- Off-line processing
- Customizable export (transpose, format, header,…)
- Command line parameters for automated exports
- Comprehensive filtering of operations
- Selection of desired data to export

BENEFITS

- Analyze large data pools
- Converting data to open format for the use of 3rd party software
- Powerful post processing tools (e.g. statistics)
- Curve and Scalar extraction
- Direct access to QC results

DESCRIPTION

db extract is a tool for exporting data from proprietary binary databases into open and text-based files. Additionally, scilab (HDF5) binary export is supported. Thus, the use of 3rd party software for post processing is possible.

Both, Klippel QC and RnD curve and single values data can be extracted.

CONTENT

1 Overview

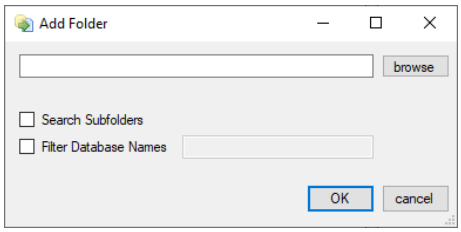
Requirements	The software requires dB-Lab to be installed on the computer. Some features might not be available for older dB-Lab versions. *db extract* is free of charge, no license is required.
MAT/CAL filter	The MAT/CAL filter is not available from version v3. The legacy version v1 still supports this feature.

2 Input Data

Klippel Measurement Databases	Data from Klippel QC and RnD are stored in binary form. These files are the main input for *db extract*. The extension of the files may be **kdb** or **kdbx**, depending on the used version of dB-Lab.
QC Summary LOG Files	In addition to the databases, summary log files are used as input data for *db extract*. The summary log file data may be included in the extraction output with the `<log:>` tokens. Please note, that QC summary log files cannot be selected individually, the folder or file list input has to be used.

3 User Interface

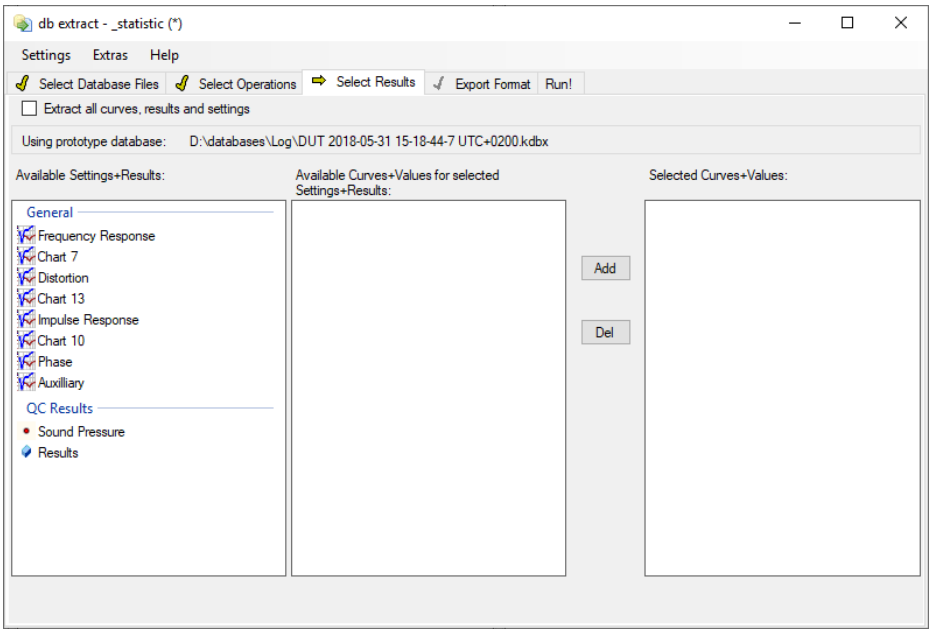
3.1 Specifying Input Data

Single Files	Database files can be selected individually by a file dialog.
Folder	If a folder is specified, all data of a folder can be specified as input data. Two optional features are available: • Include input data in sub folders • Specifying a database file name pattern 
File List	A text file with the list of files can be used to specify input data to *db extract*.

3.2 Operation Filter

Filter Options	Operations contained in the input data can be filtered by • Path/pattern (location of operation inside the database, wildcards are allowed) • Operation type (direct selection of operation types) • Operation comment (filtering by comment) • DUT Name (for PWT extract only, early versions of dB-Lab may not support this option) • Time cursor (for PWT and LSI operations, the data is present as a time course, this filter option selects the point(s) of time that are extracted)

3.3 Selection of Data to Extract



Extract All	A checkbox can be enabled to select everything in the input database to be extracted. This is not recommended if extraction performance is important.
Selection of Data to be Extracted	Data (curve, single values and setup) can be selected for the extraction. The General (chart-based) access is provided for RnD and QC-Data. QC-Data may be accessed directly via the module.

3.4 Export Format

	The extraction output can be organized with several tokens, for example to export each chart in a separate folder. The output can be configured freely to meet the requirements of the post processing software.

4 Advanced Setup

Command Line Parameters	The command line parameters can be used to start *db extract* from arbitrary applications. Selected parameters and flags are • Input data • Output folder • extract all data • automatic run • automatic exit • operation filter configuration For the full list, please refer to the *db extract* manual.
Transpose Toolbox	The transpose toolbox can be used to transpose already exported text files.

5 Applications

XML Export	The export to a XML compatible format with a MAT filter is possible, but required user specification of XML tags and hierarchy.
VACS Export	A standard settings file for export to VACS. **Note:** For detailed information about the VACS export, please refer to Application Node AN52.
Export to Excel	There are two settings files to perform an export to Excel. Both generate Microsoft Excel compatible text files - the only difference is the decimal separator setting, which is comma or period. Depending on the language settings, some Excel installations require a comma for the decimal separator.

Find explanations for symbols at:

http://www.klippel.de/know-how/literature.html

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Designs and specifications are subject to change without notice due to modifications or improvements.