

## FEATURES

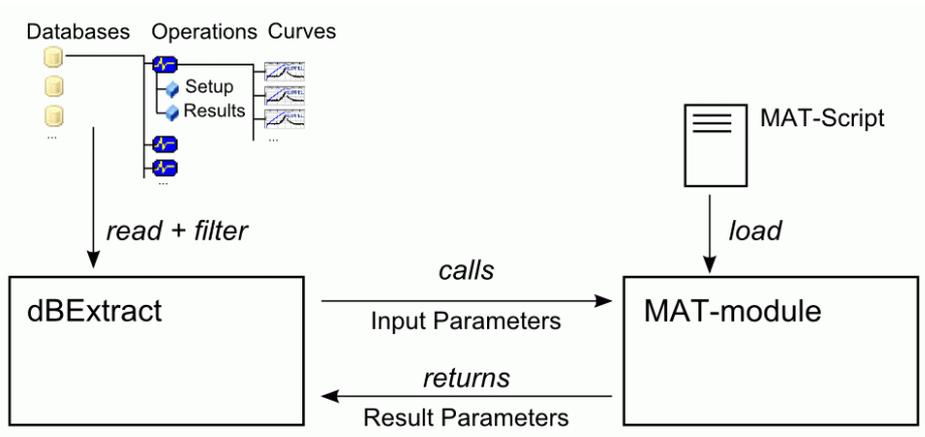
- Extraction of binary databases to text-based files
- MAT/CAL filter for post processing
- Store and re-use settings
- Off-line processing of large data pools
- Customizable export (transpose, format, header,...)
- Command line parameters for automated exports
- Comprehensive filtering of operations
- Selection of desired data to export

## BENEFITS

- Analyze large data pools
- Converting data to open format for the use of 3<sup>rd</sup> party software
- Powerful post processing tools (e.g. statistics)
- MAT (Scilab) scripting for custom post processing tools

*db extract* is a tool for exporting data from proprietary binary databases into open and text-based files. Thus, the use of 3<sup>rd</sup> party software for post processing is possible. Additionally, the integrable MAT/CAL filters allow post processing in the extraction process.

Both, Klippel QC and RnD data can be extracted.



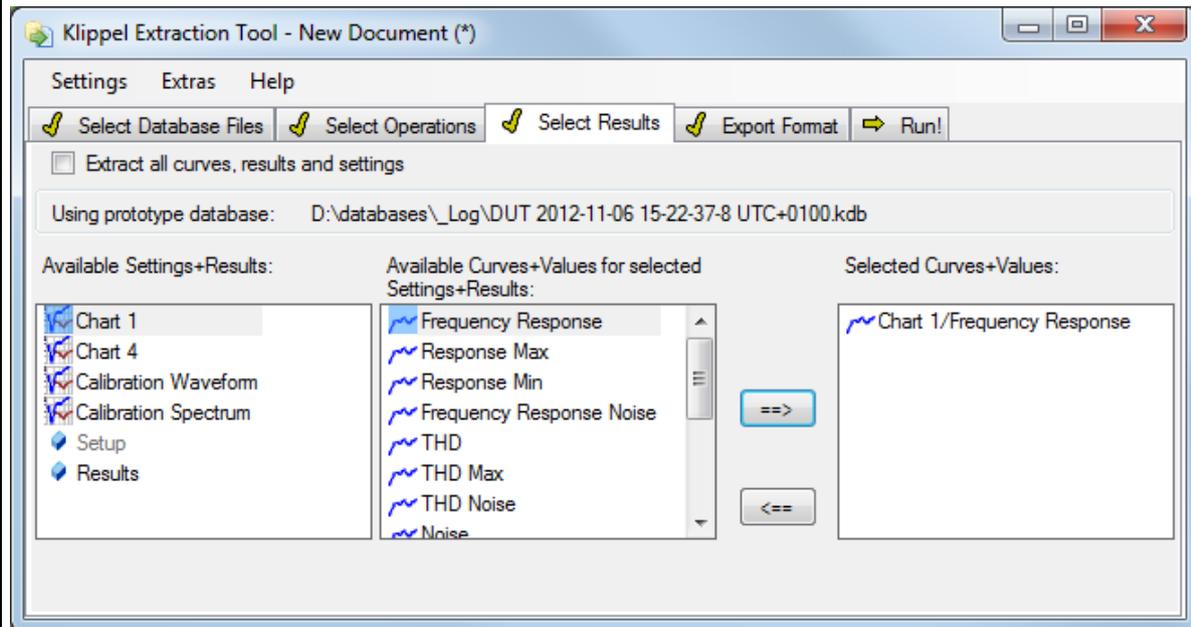
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<b>Description</b>	
<b>Requirements</b>	<p>The software requires dB-Lab to be installed on the computer. Some features might not be available for older dB-Lab versions.</p> <p><i>db extract</i> is free of charge, but some post processing filters may require a license. The use of many standard settings files, some post filters and the export in general works without a license.</p>
<b>MAT/CAL filter</b>	<p>A MAT/CAL filter requires the correct script to be installed. Furthermore, preconfigured filter operations are often stored in separate database files.</p> <p>To program custom MAT filters, a MAT license is required. This is not necessary for filters provided by Klippel.</p>
<b>Input Data</b>	
<b>Klippel Measurement Databases</b>	<p>Data from Klippel QC and RnD are stored in binary form. These files are the main input for <i>db extract</i>. The extension of the files may be <b>kdb</b> or <b>kdbx</b>, depending on the used version of dB-Lab.</p>
<b>QC Summary LOG Files</b>	<p>In addition to the databases, summary log files are used as input data for <i>db extract</i>. They are used to extract QC verdicts and single values in version 1.x.</p> <p>Please note, that QC summary log files cannot be selected individually, the folder or file list input has to be used.</p>

<b>Specifying Input Data</b>	
<b>Single Files</b>	Database files can be selected individually by a file dialog
<b>Folder</b>	If a folder is specified, all data of a folder can be specified as input data. Optionally, the recursive option can be enabled to additionally add all data from sub folders.
<b>File List</b>	A text file with the list of files can be used to specify input data to <i>db extract</i> .
<b>Operation Filter</b>	
<b>Filter Options</b>	<p>Operations contained in the input data can be filtered by</p> <ul style="list-style-type: none"> <li>• Path/pattern (location of operation inside the database, wildcards are allowed)</li> <li>• Operation type (direct selection of operation types)</li> <li>• Operation comment (filtering by comment)</li> <li>• DUT Name (for PWT extract only, early versions of dB-Lab may not support this option)</li> <li>• 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)</li> </ul>
<b>Multiple Filters</b>	Multiple filters can be used.

## 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 unless everything shall be exported.

**Selection of Data to be Extracted** Data (curve, single values and setup) can be selected for the extraction.

**Note:** Only curves can be extracted directly. Single values and setup parameter have to be exported in the MAT/CAL filter.

## Export Format

**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.

## Advanced Setup

<b>Command Line Parameters</b>	<p>The command line parameters can be used to start <i>db extract</i> from arbitrary applications. Selected parameters and flags are</p> <ul style="list-style-type: none"><li>• Input data</li><li>• Output folder</li><li>• extract all data</li><li>• automatic run</li><li>• automatic exit</li><li>• operation filter configuration</li><li>• MAT/CAL filter</li></ul> <p>For the full list, please refer to the <i>db extract</i> manual.</p>
<b>Transpose Toolbox</b>	<p>The transpose toolbox can be used to transpose already exported text files.</p>
<b>MAT/CAL Filter</b>	<p>These filters are Klippel MAT Scripts written in Scilab. Some tools (e.g. CurveStatistics) are based on the MAT filter interface.</p>

<b>Applications</b>	
<b>CurveStatistics (beta) - CST</b>	The CurveStatistics analyzes large data pools and shows statistical characteristics of the analyzed data. Additionally, new QC Limits can be calculated.
<b>Power Test Extraction</b>	This tool extracts the data from a long term monitoring to a clear visualization. Important loudspeaker parameters are extracted and plotted versus time. Additionally, the ageing of loudspeakers is investigated. Please refer to Application Note AN 29.
<b>Automatic Defect Classification (beta) - ADC</b>	An advanced statistical tool that analyzes large data pools and automatically finds similarities of the test objects. The found classes are the basis for root cause analysis. Please refer to specification S38.
<b>Multipoint Parameter Fitting</b>	The identification of linear parameters of microspeakers is difficult due to rocking. The tool extracts multiple measurements of microspeakers minimizes fitting errors caused by load and creep. Please refer to Application Note AN50.
<b>XML Export</b>	The export to a XML compatible format with a MAT filter is possible, but required user specification of XML tags and hierarchy.
<b>Single Value Extraction</b>	A MAT filter is used to extract single values and setup parameter to a file.
<b>VACS Export</b>	A standard settings file for export to VACS. <b>Note:</b> For detailed information about the VACS export, please refer to Application Node AN52.
<b>Extract Database Structure</b>	The “Extract DB Structure.kxdbsettings” settings file is set-up to reproduce the database structure as file system structure. Each curve is stored in an individual text file. The location of the text files corresponds to the operation’s location. Additionally, a subfolder is created for every chart.
<b>Export to Excel</b>	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.



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