DADiSP / Dataq File 3.0

Dataq File Import/Export Module

DADiSP / Dataq File is a simple dialog based module designed to easily read and write Dataq WDQ data files. WDQ files can be of any size and contain any number of channels.
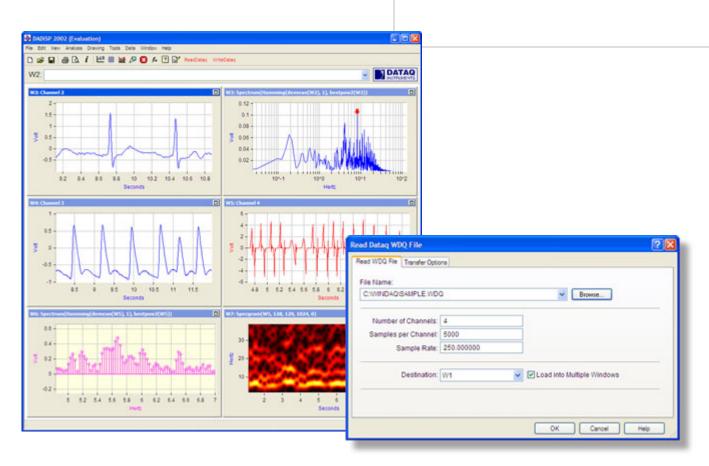
The ReadDataq dialog automatically reads all the channels in a WDQ, WDC or WDH file and optionally scales the data and sets the sample rate and engineering units.

The WriteDataq dialog saves one or more DADiSP series to a WDQ data file. Sample rate, engineering units and conversion parameters are automtically included.

KEY FEATURES

- Simple Dialog Box User Interface
- Reads and writes files of any size
- Buffered data I/O to support huge data files
- Optimized series processing for fast loading of files
- Reads scaled engineering units data or raw A/D counts
- Writes autoscaled data or user specified A/D input range

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New Features

DADiSP/Dataq Version 3.0 has been updated to support Dataq WDC and WDH file formats. A simple dialog box interface makes selecting and reading any file as simple has clicking a button.

Multichannel data can be displayed in multiple windows. The new stripchart feature allows multiple channels to be displayed in a single window with individual axes for each channel. Scroll and zoom operations are automatically synchronized to provide easy cross-channel inspection.

New optimized buffered I/O enables the reading of huge files with minimum memory requirements and optimal speed.
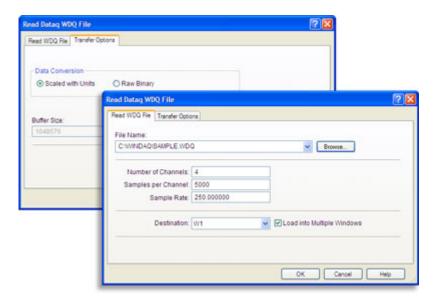
DATAQ FILE 3.0 NEW FEATURES SUMMARY

- Updated WDC and WDH File Read Support
- Optional Single Window Stripchart View
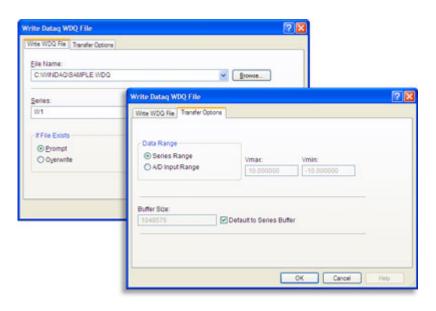- Buffered I/O to Optomize Huge Files

Dataq File Import/Export Module

A WDQ, WDC or WDH file is a 16 bit binary data file format created by Dataq data conversion hardware and software. Dataq files can contain one or more channels and include amplitude units and scaling parameters to convert raw A/D counts to engineering output data.

Simple Import Interface

Importing a WDQ file is as simple as pressing a button and selecting the file. After a file is chosen, a summary of the contents is displayed. The data channels are transposed on the fly to take advantage of DADiSP's optimized column orientation.

Import Options

The channels can be loaded into separate Windows or combined into a single Window for display. The data can be converted to original engineering units or imported as raw A/D counts. The transfer buffer size can be specified for read optimization of large files.

Simple Export Interface

Multiple DADiSP series can be exported to a single WDQ file simply by selecting a file name and checking a list of Windows to save. Sample rate, engineering units and scaling information for each series are automatically saved.

Export Options

Each DADiSP series can be autoscaled to make use of the maximum output resolution or a specific input A/D range can be specified to facilitate use with a specific A/D converter. The transfer buffer size can be specified for write optimization of large WDQ files.

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WDQ/WDC/WDH File Format

A WDQ/WDC/WDH file contains 16 bit integer data with 14 bit precision. Sample rate, engineering units and double precision scaling parameters are also saved with the A/D count values. DADiSP/Dataq File relies on Dataq's ActiveX control to isolate format details and eliminate file incompatibilities.

Requirements

DADiSP/Dataq File requires DADiSP 6.0 B17 or higher. Contact us for information about updating your current version of DADiSP.

Dataq File Functions

DADiSP/Dataq File is a fully menu driven module. However, the following functions can be used on a standalone basis to read WDQ/WDC/WDH files and write WDQ files.

Data File Functions

Rdaqmenu	Displays the dialog box interface to read Dataq files.
Readdaq	Loads a Dataq WDQ/WDC/WDH file.
Wdaqmenu	Displays the dialog box interface to write Dataq files.
Writedaq	Saves multiple series to a Dataq WDQ file.