**Advanced Data Conversion**

Figure 1.

Create one PDF File for entire test

NEW!
Report Tool!

Create Portable Document Format (PDF) files. Simply click the button labeled PDF and automatically create PDF files for each display you enabled in the Batch Plot setup window.

Click the MERGE button and add a file that contains ALL of the PDF files in a single file. Excellent for transmitting reports while the test article is still mounted!
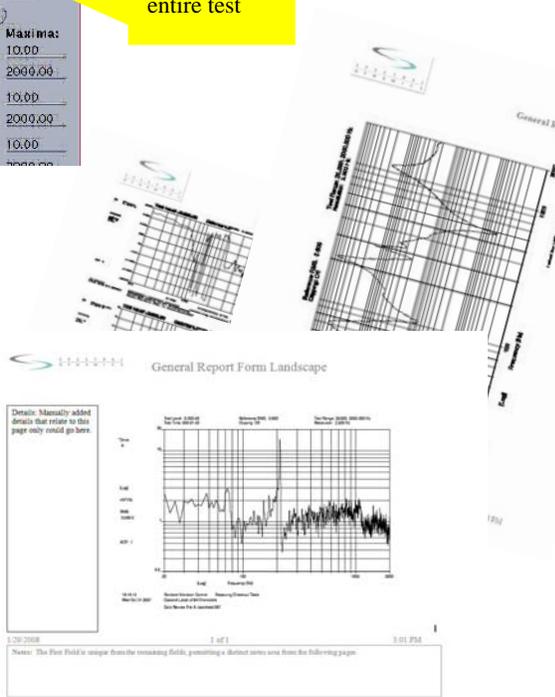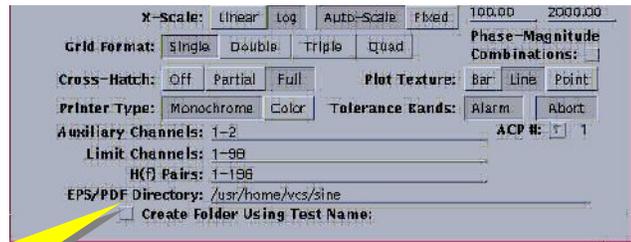

Figure 2.

Click the Encapsulated PostScript® (EPS) button and create MS friendly files ready to drop into MS Word®, MS Excel®, MS PowerPoint®, etc. The images in **Figure 2** are sample plots created in MS Word® by inserting the EPS files created by Advanced File Conversion during a test or data review, post test.

Figure 3 at right shows user options for display choices, format of display for each trace type, attributes of the grid, plot texture, etc.

Figure 3.

Advanced File Conversion also permits user choice of printer destination, permitting paper plots in addition to electronic versions.

User Controlled Directory path for storage destination for EPS and PDF files

General Description

The JAGUAR Foundation Software provides the **Standard Data Conversion** utility that is primarily used to convert binary data storage files to industry standard formats, including:

Universal File Format (UFF) ASCII files
Matlab ASCII format (spreadsheet) files.

The **Advanced Data Conversion & Plots** option extends the standard Data Conversion software to support:

Matlab Binary (.mat) Format Conversion of Throughput Disk Host Files

The advanced features also extend the Batch Plots feature in each application to support the creation of:

Encapsulated PostScript (EPS) ® Files
Portable Document Format (PDF)® Files

The converted files can be easily transferred to other computer systems (such as a PC or workstation) for further processing and display. All Matlab Binary and ASCII files may be imported into Matlab. The Matlab time domain files may be imported and displayed by Signal Analysis Data Review with Advanced Signal Analysis Features enabled. The Matlab ASCII (spreadsheet) files can also be imported by OpenOffice, StarOffice or MS Office®. The PDF files can be viewed via the Adobe Acrobat Reader®.

JAGUAR Applications

The applications that are directly supported by the Data Conversion Utility are:

Random
Swept Sine
Mixed-Mode
Classical Shock
Shock Synthesis
Transient Capture
Acoustic Control
MIMO Random
MIMO Swept Sine
Throughput Disk

Applications such as MIMO Shock and MIMO Waveform Replication include an Export Data feature within the Data Review function for conversion to UFF and Matlab ASCII formats. The Signal Analysis application saves data directly into UFF, Matlab ASCII or Star Binary formats.

MIMO Data Conversion

Data Conversion for MIMO Random and MIMO Swept Sine support the UFF and Matlab ASCII (spreadsheet) formats. The Magnitude components are converted for the Reference, Control and Drive matrices. For Matlab ASCII, separate files are created for the MIMO Reference, Control, Drive, Auxiliary and H(f) waveform types. The filename for the Reference matrix has ".ref" inserted before the last extension (.psd for Random and .frq for Swept Sine). Similarly, ".ctl" is inserted for Control files and ".drv" is inserted for Drive files. Swept Sine and MIMO Swept Sine support the choice for Magnitude & Phase for complex data in addition to the Real & Imaginary format choice that is supported for complex data for other applications.

Advanced Batch Plot Files

Most of the JAGUAR applications support a standard Batch Plots feature that may be used to define plot jobs that cause all of the desired waveforms to be sent to the system printer via a single button click. The Advanced Data Conversion & Plots option extends the Batch Plots user interface to support the creation of EPS® and PDF® plot files, instead of sending the plots to the printer.

The plot files can be viewed with various host utilities, including an Adobe Acrobat Reader®. This utility supports the reading of merged plot files. Thumbnail images of each plot page are also available in a sidebar.

The EPS® files can generally be imported by word processing software such as MS Word®. The PDF® files can be further manipulated by the Adobe Acrobat application which can also import MS Word® files. These features provide flexibility and automation for all of your report generation requirements.