DADiSP / ISF 1.1

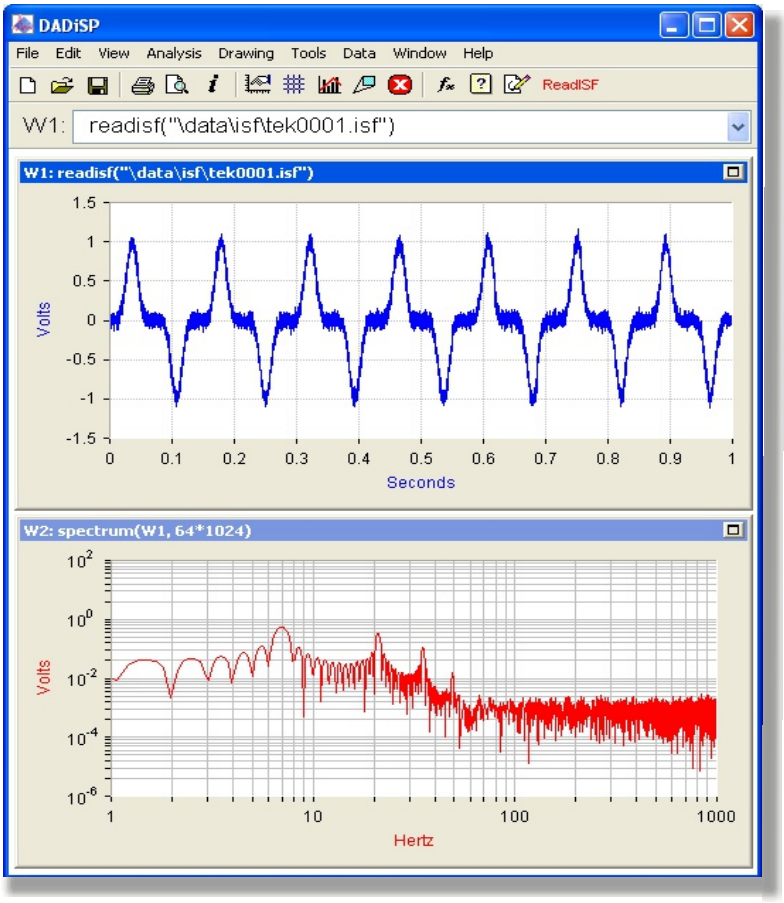
Tektronix ISF Import Module

DADiSP/ISF is a dialog based module to import Tektronix (1) **I**nstrument **S**pecific **F**iles. ISF files of any size and data type are supported.

Designed for data generated by a variety of Tektronix GPIB based instruments, DADiSP/ISF imports the raw data saved in a ISF file and automatically applies the necessary data scaling along with channel specific sample rates and engineering units.

KEY FEATURES

- Simple User Interface
- Fast and Direct ISF import
- Reads ISF Files of any size
- Preserves Original Data Channel Properties
- Automatic Display of Imported Channels



(1) Tektronix is a registered trademark of Tektronix, Inc.

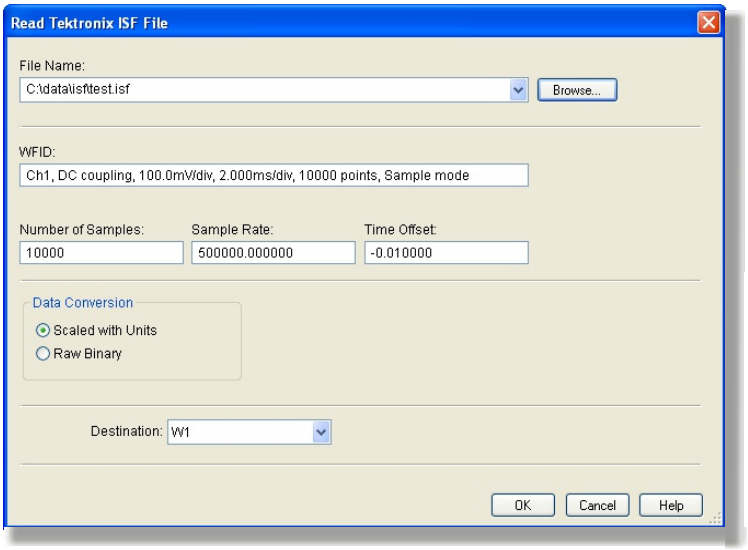
Tektronix Instrument Specific File

The Tektronix Instrument Specific File, ISF, stores channel data from a GPIB instrument in the same format as the instrument responds to a remote GPIB WAVFrm? command. The ISF data stream consists of an ASCII preamble followed by the raw binary data. The preamble contains information regarding the sample rate, units and scaling parameters used to convert the raw data to real values.

For example, a typical ISF data stream might appear as:

```
:WFMPRE:BYT_NR 2;BIT_NR 16;ENCDG BIN;BN_FMT RI;BYT_OR
MSB;NR_PT 10000;WFID "Ch1, DC coupling, 2.0E0 V/div, 1.0E-5 s/div,
10000 points, Sample mode";PT_FMT Y;XINCR 1.0E-8;PT_OFF
0;XZERO 3.5E-4;XUNIT "s";YMULT 3.125E-4;YZERO 0.0E0;YOFF
0.0E0;YUNIT "V";:CURVE #520000
```

DADiSP/ISF automatically processes the preamble to produce scaled engineering data with the proper sample rate and units.



ISF Formats

Single byte and 2-byte raw integer data in signed and unsigned formats are supported. A wide range of Tektronix instruments produce ISF files including MSO4000, DPO4000, MSO3000, DPO3000, MSO2000, DPO2000, TDS3000, TDS3000B, TDS3000C Series oscilloscopes.

Simple Menu Interface

DADiSP/ISF runs from the DADiSP worksheet and is accessed by a press of a button. The ISF user interface displays important file information and supports both raw data transfer and appropriately scaled engineering values. The data is converted directly and efficiently, with no need to rely on intermediate TXT or CSV formats.

ISF Formats

DADiSP provides a complete analysis, display, and processing environment using ISF data. The integration of DADiSP/ISF into DADiSP makes it easy to automate data import and analysis applications completely through SPL (Series Processing Language), macros, and command files.

ISF Functions

DADiSP/ISF is a fully dialog based module. However, the following functions can be used on a standalone basis to read ISF files.

ISF Functions

readisf	Load an IDF file directly into a Window or variable
readisf_info	Return information about an ISF file