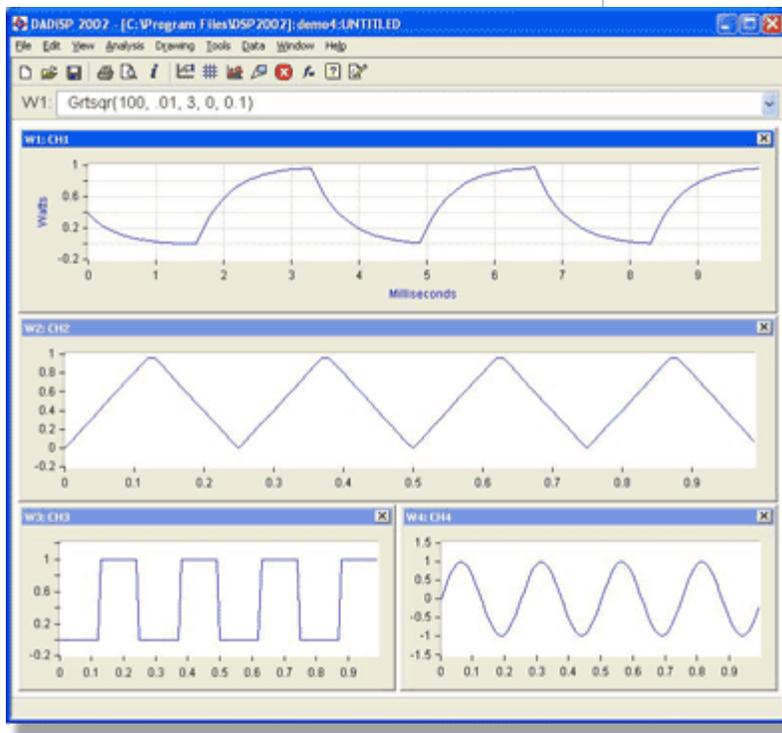# DADiSP / COMTRADE

COMTRADE Data File Import Module

◆

DADiSP/COMTRADE is a menu-driven module that extends DADiSP's importing functionality, allowing users to import COMTRADE (IEEE Standard Common Format for Transient Data Exchange) files.

Designed specifically for the power utility indiustry, DADiSP/COMTRADE imports COMTRADE data files by converting information in the COMTRADE configuration file into a fully qualified DADiSP header file. This header is automatically processed by DADiSP's Import Facility, providing a complete import of data into a DADiSP format.

KEY FEATURES

- Simple User Interface
- Fast and Direct COMTRADE File Import
- Automatic Header Conversion Preserves Important Data Properties

COMTRADE Data File Import Module

COMTRADE (Common Format for Transient Data) is an important IEEE standard (C37.111) developed explicitly for the power industry. The standard defines a common format for data files used for the interchange of various types of fault, test or simulation data for electrical power systems. The IEEE standard also describes the sources of transient data such as digital protective relays, digital fault recorders and transient simulation programs and discusses the sampling rates, filters, and sample rate conversions for the transient data being exchanged. The C37.111-1999 standard establishes that the following files are necessary for the data exchange: header file (.hdr), configuration file (.cfg) and data file (.dat).

COMTRADE Header Conversion

DADiSP/COMTRADE imports COMTRADE data files by automatically converting information in the COMTRADE configuration file (*.cfg) into a DADiSP header file. The header is processed by DADiSP's Import Facility to fully import COMTRADE data into a DADiSP series.

Simple Menu Interface

DADiSP/COMTRADE runs from the DADiSP worksheet and is accessed through the toolbar menu. The COMTRADE toolbar menu option utilizes DADiSP's easy-to-use pull-down menus which allow the user to select the COMTRADE Filename; PTR (Potential Transformer Ratio), CTR (Current Transformer Ratio), and the default Series Prefix. Once the COMTRADE parameters have been defined via the module's menu system, the COMTRADE data is imported into DADiSP using the specific data acquisition settings listed in the configuration file.

Full Anlaysis System

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

COMTRADE Functions

DADiSP/COMTRADE is a fully menu driven module. However, the following functions can be used on a standalone basis to read COMTRADE files.

COMTRADE Functions

impcomtrade   Import a COMTRADE file into a series.

cnvrtctf   Convert a COMTRADE header into a DADiSP header