

PACKAGE ID - 001325IBMPC00 WINPLOT21

KWIC TITLE - Reads and Plots PCM Data Files

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LIMITATION CODE -COPY **AUDIENCE CODE** - LIM

COMPLETION DATE - 08/31/1999 **PUBLICATION DATE** - 08/31/1999

DESCRIPTION - WINPLOT21 reads and plots PCM (Pulse code modulated) data files. The data files must contain the PCM data formatted per IRIG 106 Telemetry standards. The contents of the data files are interpreted using information found in ancillary calibration file that can be created using a Calibration Wizard feature of this program. PCM data is read in and scaled to engineering units. First and second order equations are applied to the engineering units. The user has the option of plotting the raw PCM counts, engineering units, integrated engineering units, or second order integration of the engineering units. A Butterworth filter can be applied to the engineering units if the source of the data is not a PCM subcommanded channel. Scroll bars allow for zooming in along both the x and y axis.

PACKAGE CONTENTS - Media Directory; Software Abstract; Media Includes Source Code, Object Library, Executables, Installation Instructions, Help File;

SOURCE CODE INCLUDED? - Yes

MEDIA QUANTITY - 1 CD Rom

METHOD OF SOLUTION - Raw counts, which may be formatted as either signed magnitude, excess n notation, ones complement, or twos complement are scaled according to values found in the calibration file. First and second order integration is performed using Tick's rule. Resulting data is plotted for analysis.

COMPUTER - IBM PC

OPERATING SYSTEMS - Windows NT and Windows 98

PROGRAMMING LANGUAGES - na

SOFTWARE LIMITATIONS - WINPLOT21 has the capability of manipulating 512 channels of data. The PCM frames are limited to 512 words per minor frames per major PCM frame. Words can be either 8 bit or 16 bits. Resolution of the data may be either 8, 10, 12, 14, or bits.

SOURCE CODE AVAILABLE (Y/N) - Y

RELATED SOFTWARE - WINPLOT21 is a rewrite of an older program called WINPLOT. The calibration files used by WINPLOT21 are not

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RELATED SOFTWARE - (CONT) compatible with the older software.

HARDWARE REQS - The combined RAM and virtual memory must be as large as the data to be plotted.

ABSTRACT STATUS - Released AS-IS 12/8/1999.

SUBJECT CLASS CODE - Z

KEYWORDS -
COMPUTER PROGRAM DOCUMENTATION
W CODES
DATA

EDB SUBJECT CATEGORIES -
990200

SPONSOR - DOE/DP

PACKAGE TYPE - AS - IS