

PACKAGE ID - 000046AL00000 MACDALE

KWIC TITLE - Macintosh Data Acquisition for Laboratory
Environment

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LIMITATION CODE -UNL **AUDIENCE CODE** - UNL

COMPLETION DATE - 01/01/1991 **PUBLICATION DATE** - 01/01/1991

DESCRIPTION - MacDALE is a general-purpose data acquisition system for small laboratories based upon the Macintosh-II personal computer, running LabVIEW software, with CAMAC as the primary input/output (I/O) interface.

PACKAGE CONTENTS - Media Directory; Software Abstract; UCRL-MA-108576;

SOURCE CODE INCLUDED? - Yes

MEDIA QUANTITY - 4 3.5 inch diskettes

METHOD OF SOLUTION - Measurements such as voltages, temperatures, and transient waveforms are acquired, displayed, and saved in disk files for later analysis. Links for data transfer to other Macintosh applications as well as other networked computers are fully supported.

COMPUTER - APPLE MACINTOSH

OPERATING SYSTEMS - Macintosh OS

PROGRAMMING LANGUAGES - LabVIEW (from National Instruments, Austin, TX)

SOFTWARE LIMITATIONS - This application cannot run without LabVIEW.

SOURCE CODE AVAILABLE (Y/N) - Y

UNIQUE FEATURES - The modular approach to programming allows the addition of new instruments (not necessarily CAMAC) without extensive recoding. LabVIEW's mouse-driven interface is graphical in nature and highly intuitive, encouraging use by casual users. Furthermore, the LabVIEW language is easily grasped by anyone with programming experience, allowing system maintenance to be performed by available personnel.

RELATED SOFTWARE - GPIB interface for the Macintosh.

OTHER PROG/OPER SYS INFO - Igor (Wavemetrics Corp., Lake Oswego, OR) is recommended for data analysis and special routines are included

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OTHER PROG/OPER SYS INFO - (CONT) with MacDALE to automate data transfer to that application. This package may be customized or used as the basis for other applications. A complete user's manual is included on disc in Microsoft Word format.

HARDWARE REQS - Machintosh personal computer running LabVIEW software.

TIME REQUIREMENTS - Dependent on problem size.

REFERENCES - Gary W. Johnson, Henry G. Andreski, MacDALE -Machintosh Data Acquisition for Laboratory Environments (UCRL-MA-108576), January 1991.

ABSTRACT STATUS - Submitted October 25, 1991.

SUBJECT CLASS CODE - P

KEYWORDS -

M CODES
APPLE COMPUTERS
DATA ACQUISITION SYSTEMS
PERSONAL COMPUTERS
CAMAC SYSTEM
EQUIPMENT INTERFACES
COMPUTER GRAPHICS
DATA ACQUISITION
COMPUTER PROGRAM DOCUMENTATION

EDB SUBJECT CATEGORIES -
990200

SPONSOR - DOE/ER

PACKAGE TYPE - AS - IS