

**PACKAGE ID** - 001019SUN0400 DMI

**KWIC TITLE** - Data Machine Independence

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

**COMPLETION DATE** - 03/01/1994      **PUBLICATION DATE** - 03/01/1994

**DESCRIPTION** - Data-machine independence achieved by using four technologies (ASN.1, XDR, SDS, and ZEBRA) has been evaluated by encoding two different applications in each of the above; and their results compared against the standard programming method using C.

**PACKAGE CONTENTS** - Media Directory; Software Abstract; README.File (10 pages); Media Includes Source Code, Object Modules, Sample Problem Input Data;

**SOURCE CODE INCLUDED?** - Yes

**MEDIA QUANTITY** - 1 CD Rom

**METHOD OF SOLUTION** - The first applications consists of a reader and writer or one data of each type supported by the native compiler. The second applications consists of a reader and writer of a set of one hundred words (4 bytes per word).

**COMPUTER** - SUN4

**OPERATING SYSTEMS** - Sun OS, ULTRIX

**PROGRAMMING LANGUAGES** - C (80%); FORTRAN (20%)

**SOFTWARE LIMITATIONS** - Consists of the 2 applications in each of the formats metioned above. Does not include any utility for analysis of the results.

**SOURCE CODE AVAILABLE (Y/N)** - Y

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**RELATED SOFTWARE** - Abstract Syntax Notation 1 (ASN.1), External Data Representation (XDR), Self Describing Format (SDS), ZEBRA

**HARDWARE REQS** - Any platform that supports C compiler.

**TIME REQUIREMENTS** - Depends on the platform and Data representation format used.

**ABSTRACT STATUS** - Released AS-IS 6/23/95

**SUBJECT CLASS CODE** - VPW

**KEYWORDS** -

COMPUTER PROGRAM DOCUMENTATION  
D CODES  
DATA ACQUISITION SYSTEMS  
DATA PROCESSING  
SUPERCONDUCTING SUPER COLLIDER

**EDB SUBJECT CATEGORIES** -

990200 430303

**SPONSOR** - DOE/ER

**PACKAGE TYPE** - AS - IS