

PACKAGE ID - 000410SUN0000 ELROS

KWIC TITLE - An Embedded Language Preprocessor for Remote Operations Service.

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

COMPLETION DATE - 05/01/1992 **PUBLICATION DATE** - 10/30/1991

DESCRIPTION - The ELROS preprocessor accepts programs written in the ELROS embedded language. These programs are placed in C programs and emit a program of C programming statements that implement remote operations.

PACKAGE CONTENTS - Media Directory; Software Abstract; UCRL-MA-108542; UCRL-MA-108543; UCRL-JC-108862; ELROS Installation Guide;

SOURCE CODE INCLUDED? - No

MEDIA QUANTITY - 4 3.5 diskettes

METHOD OF SOLUTION - The ELROS preprocessor is generated from the LEX and YACC compiler generators from a grammar that incorporates ELROS embedded language statements in a conventional ANSI C grammar. The preprocessor emits C code that calls the ELROS runtime system to implement remote operations.

COMPUTER - SUN

OPERATING SYSTEMS - SunOS

PROGRAMMING LANGUAGES - C and C++

SOURCE CODE AVAILABLE (Y/N) - N

UNIQUE FEATURES - Implements remote operations, ISO standard 9072.

OTHER PROG/OPER SYS INFO - Files compiled by ELROS preprocessor normally end in '.ec'. It also requires availability of socket based TCP/IP implementation.

TIME REQUIREMENTS - Depends on complexity of program being compiled.

REFERENCES - M.L. Branstetter, J.A. Guse and D.M. Nessellet, 'Using ELROS to Implement ISO Application Protocols,' Lawrence Livermore Lab.

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REFERENCES - (CONT) Report UCRL-MA-108542, October 30, 1991; M.L. Branstetter, J.A. Guse and D.M. Nesseltr, 'An ELROS Primer,' Lawrence Livermore Lab. Report UCRL-MA-108543, October 30, 1991; M.L. Branstetter, J.A. Guse and D.M. Nesseltr, 'ELROS An Embedded Language for Remote Operations Service,' Lawrence Livermore National Lab. Report UCRL-JC-108862, November, 1991.

ABSTRACT STATUS - Submitted May 1992.

SUBJECT CLASS CODE - P

KEYWORDS -

COMPUTER PROGRAM DOCUMENTATION
E CODES
COMPUTER NETWORKS
PROGRAMMING LANGUAGES
DISTRIBUTED DATA PROCESSING

EDB SUBJECT CATEGORIES -

990200

SPONSOR - DOE/DP

PACKAGE TYPE - SCREENED