

**PACKAGE ID** - 000348IBMPC00 LRSYS

**KWIC TITLE** - PASCAL LR(1) Parser Generator System

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

**COMPLETION DATE** - 04/01/1985   **PUBLICATION DATE** - 04/01/1985

**DESCRIPTION** - LRSYS is a complete LR(1) parser generator system written entirely in a portable subset of Pascal. The system, LRSYS, includes a grammar analyzer program (LR) which reads a context-free (BNF) grammar as input and produces LR(1) parsing tables as output, a lexical analyzer generator (LEX) which reads regular expressions created by the REG process as input and produces lexical tables as output, and various parser skeletons that get merged with the tables to produce complete parsers (SMAKE). Current parser skeletons include Pascal, FORTRAN 77, and C. Other language skeletons can easily be added to the system. LRSYS is based on the LR program.

**PACKAGE CONTENTS** - Media Directory; LCSD-313 Revision 2;

**SOURCE CODE INCLUDED?** - Yes

**MEDIA QUANTITY** - 2 3.5 Diskettes

**COMPUTER** - IBM PC

**OPERATING SYSTEMS** - DOS

**PROGRAMMING LANGUAGES** - Pascal

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

**REFERENCES** - Kelly O'Hair, The LR System User Manual, LCSD-313 Revision 1 Draft, April 1985.

**ABSTRACT STATUS** - Abstract first distributed May 1985. IBM PC version submitted April 1985. Sample problem executed by NEADB August 30, 1991.

**SUBJECT CLASS CODE** - P

**KEYWORDS** -

COMPUTER PROGRAM DOCUMENTATION  
L CODES  
TRANSLATORS  
FORTRAN  
COMPUTERS  
PROGRAMMING LANGUAGES

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PASCAL

**EDB SUBJECT CATEGORIES** -  
990200

**SPONSOR** - DOE/DP

**PACKAGE TYPE** - TESTED