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SHARE PROGRAM LIBRARY SUBMITTAL FORM



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Triangle Universities Computation Center
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SPLA CONTROL NUMBER: 219

This form should be completed and submitted with the program package to the SHARE Program Library Agency at the address shown above. Standards and instructions for submitting programs are in the SHARE Reference Manual, Section 6.

- (1) Program Number (to be filled by SPLA) 360D-09.3.001
- (2) Title of Program ASSYMBOLIZE - A program to aid in making IBM
360/370 Assembler source program register references
symbolic, optimizing some RX addresses, and facilitate
reworking register utilization in an existing program.
- (3) System Type(s) (Machine). 360
- (4) Search Key(s) Symbolic coding, Assembler, BAL, ALC,
Absolute register references,
Optimizing, O.S. modifications.
- (5) Programming Systems/Languages SNOBOL4 (Spitbol)
- (6) Primary Subject Code 09.3 (Source Language Programming Aids).
- (7) Minimum System Requirements OS/360 (minimum 112k region or partition) or V.S. etc.
- (8) New (N) or Revision (R) (if revision, show prior Program Number in Item 1) N
- (9) Date of Submittal 1978 02 01
- (10) Documentation (number of original pages submitted) 0
- (11) Author's Name and Address John H. Lindsay
Assistant Professor
Computing Systems Consultant
Computing Centre
Queen's University at Kingston
Kingston, Ontario, K7L 3N6, CANADA
- (12) Direct Technical Inquiries to Name & Address
(if different than Author) _____

- (13) Submitter's Installation Membership Code OK
- (14) Abstract (should contain sufficient information for a reader to determine the value of the program). Listed on the reverse side of this form are subjects which may serve as a guide for a descriptive abstract.

DISCLAIMER

Triangle Universities Computation Center (TUCC) serves solely as the distribution agent for contributed programs and does not test or maintain them. They are distributed essentially in the original form submitted by the author. Neither TUCC nor SHARE, INC., makes any warranty, expressed or implied, as to the documentation, function, or performance of the contributed programs.

Subject Guide:

- ## DISCLAIMER

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- a) This program is an aid to modification makers. It reads an assembler source program as input, transforms it by replacing all absolute register references by symbolics, and outputs an 'equivalent' transformed program, and a listing of the original interspersed with any lines transformed. By inserting SETC and EQU pseudo operations, the programmer assigns names to register uses and enables the names to appear in the assembler cross reference so that register use can be discovered there; by so doing the programmer also unhooks register use from association with particular machine registers.
- b) Snobol4 (Spitbol).
- c) Version 1.0
- d) Modifying 'O.S./360 or Assembler coded programs.
- e) Main program.
- f) OS/360 with minimum 112k region or partition. ASSYMBOLIZE should also work with VS/1, MVS, etc. Both an object deck file and an IEHMOVE unloaded load module library are provided. To use the source code as is, the Spitbol compiler is also required. To use the source code of Assymbolize with the Bell Labs (Macros) Compiler/Interpreter for Snobol4 would require modification as noted in the tapekey.

Complete installation and use documentation is distributed only in file 1 of the distribution tape (DSN=ASSYMBOL.TAPEKEY,VOL=SER=ASSYBM, DCB=(RECFM=FB,LRECL=80,BLKSIZE=3520,DEN=3), 403 card images)

(Please attach additional pages if necessary) Total pages attached 0

An "Acknowledgement of Assistance" statement must be attached to this Submittal Form.

Permission to Publish

"I hereby give the SHARE Program Library Agency permission to reprint, reproduce, and distribute this program"

(15) Signature of Submitter and Date John H. Lindsey 1978 02 01

(15) Signature of Installation Addressee