

SHARE PROGRAM LIBRARY AGENCY



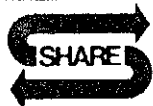
PROGRAM NUMBER

055003

University of Miami

1365 MEMORIAL DRIVE - CORAL GABLES, FLORIDA
(305) - 284-6257

SHARE PROGRAM LIBRARY SUBMITTAL FORM



SPLA

CONTROL NUMBER: 214

SHARE PROGRAM LIBRARY AGENCY

Triangle Universities Computation Center

Post Office Box 12076

Research Triangle Park, North Carolina USA 27709

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) 36CD-C5.5.CC8
- (2) Title of Program SLAC modifications to the cs/vs linkage
Editor
- (3) System Type(s) (Machine). System 360/370
- (4) Search Key(s) Linkage Editor modification for
Syslib Autocall, Syslmed, ENG/DEG
Statistics, Cosmetic Changes
- (5) Programming Systems/Languages Assembly
- (6) Primary Subject Code C5.5
- (7) Minimum System Requirements CS MFT/mvt, cs/vs
- (8) New (N) or Revision (R) (if revision, show prior Program Number in Item 1) Revision
- (9) Date of Submittal 5 April '78
- (10) Documentation (number of original pages submitted) 4
- (11) Author's Name and Address Dr. John R. Ehrman
SLAC Computing Services
Mail Bin 97
P.O. Box 4349
Stanford, CA 94305
- (12) Direct Technical Inquiries to Name & Address
(if different than Author) _____

- (13) Submitter's Installation Membership Code SLA
- (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.

SHARE PROGRAM LIBRARY SUBMITTAL FORM

Subject Guide:

- Purpose
- Programming Language used
- Version and modification level or release number
- Field of application
- Type of routine (main program, subroutine, etc.)
- Specific description of machine requirements

The SLAC modifications to the CS/VS Linkage Editor are of two types: 1) changes and additions to the printed output and 2) various internal changes to help the user in program debugging.

The changes and additions to the printed output include the suppression of useless page ejects; modifications in the module map and cross reference table headings to show that either a module map or a module map and cross reference table are being printed; and a change in the main heading to reflect the fact that this is the SLAC modified version of the Linkage Editor.

The internal changes to help the user include printing a message telling the user where the system has put the output dataset (Syslmod); clearing the input text buffer to hex 81's so uninitialized areas of the program may be found more easily; flagging, in the module map, all names called from the Syslib dataset (via Autocall), and listing

(Please attach additional pages if necessary) Total pages attached 2

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 _____

(15) Signature of Installation Addressee _____

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these names in the Concatenation Number Dictionary with the dataset name and the volume from which they were linked. The data derived from the creation of the Siplmed message and the Concatenation Number Dictionary is also written out to the SMF dataset using a special SVC routine. This data can be used to monitor program usage, load module library access patterns, distribute cost of subroutine libraries, ect.

In addition, some of the internal tables in the Linkage Editors are cleared more efficiently to improve speed.

User and system documentation is included on the distribution tape.

DISCLAIMER

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

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(15) Signature of Submitter and Date Gary J. Mashinski 5 April 78

(15) Signature of Installation Addressee R. H. Johnson

SLAC Modifications to the VS Linkage Editor
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Description of Distribution Tape

The SLAC modifications to the VS Linkage Editor are contained on a 9-track tape, with standard labels, volid=LKED37. All files except the 3rd and 9th are card images, blocked with a blocking factor of 25. The 3rd file is blocked with a blocking factor of 100 and the 9th file is an IEBCOPY-unloaded partitioned data set containing the Linkage Editor. The DCP parameters for the 9th file are RECFM=VS, EIKSIZE=2000. The first file and last five files are in upper and lower case, and may be printed directly on a printer with a TN print train. Specify RECFM=FBA and LRECL=80 in the SYSQUI ECB. The files and their contents are:

| File | Cards | Dsname | Contents |
|------|-------|----------|---|
| 1 | 64 | COVER | The cover letter to LKED37 (you're reading it now) |
| 2 | 63 | REMOVE | Sample jobs to remove the following files |
| 3 | 23359 | SOURCE | LINKAGE EDITOR source in IEBCOPY format, with modifications |
| 4 | 994 | HEWLMODS | The SLAC modifications to the Link Editor |
| 5 | 54 | ASMJCL | Sample JCL to assemble and link the Linkage Editor |
| 6 | 68 | TESTJOBS | Sample test jobs to exercise the Linkage Editor |
| 7 | 99 | SMFWTR | SMFWTR macro for generating SMF records |
| 8 | 193 | IGC0024E | SVC routine called by SMFWTR macro |
| 9 | --- | LOADMOD | Load Module (1 members + 5 aliases) |
| 10 | 82 | USERNOTE | User documentation for the Linkage Editor |
| 11 | 128 | TECHMEMO | Systems doc. for the Linkage Editor |
| 12 | 552 | USERSTAT | Doc. for Linkage Editor's SMF data |
| 13 | 267 | SMFTMEMO | Systems documentation for the SMFWTR macro |
| 14 | 483 | TM106 | Systems documentation for other SMF record types and SYSIIB information |

The file named USERSTAT describes a number of SMF record subtypes; this Linkage Editor generates subtypes 2, 3, and 6. To eliminate the SMF records written by the SMFWTR macro, change the SVC 245 to NOPR 0, or use AMASPZAP to change it in the load module:

| | | |
|------|------|----------|
| NAME | HEWL | HEWLEBTP |
| VER | 127E | 0AF5 |
| REP | 127F | 0700 |
| VER | 12FA | 0AF5 |
| REP | 12FA | 0700 |
| NAME | HEWL | HEWLEFNL |
| VER | 0A58 | 0AF5 |
| REP | 0A58 | 0700 |
| VER | 0B5C | 0AF5 |
| REP | 0B5C | 0700 |
| NAME | HEWL | HEWLFINE |
| VER | 0168 | 0AF5 |
| REP | 0168 | 0700 |

Direct technical inquiries and suggestions to

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