

# SHARE PROGRAM LIBRARY AGENCY



PROGRAM NUMBER

055002

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## University of Miami

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SHARE PROGRAM LIBRARY SUBMITTAL FORM

SHARE PROGRAM LIBRARY AGENCY  
Triangle Universities Computation Center  
Post Office Box 12076  
Research Triangle Park, North Carolina  
27709 USA

SPLA CONTROL NUMBER: 200

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".

- (1) Program Number (to be filled in by SPLA)..... 360D-05.5.002  
(2) System Type (machine)..... SYSTEM/360/370  
(3) Search Key..... LOADER MODIFICATIONS FOR  
SYSLIB AUTOCALL STATISTICS,  
LOAD MAP UPGRADE, UNRESOLVED  
EXTERNAL REFERENCE TRAP  
(4) Programming Systems/Languages..... OS/VS, OS/MVT  
(5) Author's Name and Address.....  
↓  
(6) Direct Technical Inquiries to Name & Addr Dr. John R. Ehrman  
(if different than Author) SLAC Computing Services  
Mail Bin 97  
P.O. Box 4349  
Stanford, CA 94305  
(7) Title of Program..... SLAC MODIFICATIONS TO OS/VS  
LOADER  
(8) Submitter's Installation Membership Code..... SLA  
(9) Submitter's Own Program Identification and Suffix(Optional) .....  
(10) Primary Subject Code..... OS.5  
(11) Minimum System Requirements OS/MVT/MFT, OS/VS.  
(12) New or Revision Code (If revision, show prior Program Number in Item 1) R  
(13) Year Completed..... 1976  
(14) Date of Submittal..... 12, 17, 76  
(15) Documentation (number of original pages submitted) ..... 1  
(16) 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.

September 15, 1975 6.04-09

Reprinted \_\_\_\_\_

## SHARE PROGRAM LIBRARY SUBMITTAL FORM

## DISCLAIMER

## Subject Guide:

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

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## ABSTRACT

These modifications to the OS/VS LOADER provide two major convenience features for the user:

- (1) All names called from SYSLIB data sets (via autocall) are flagged in the Load Map, and are listed in the ~~OS/VS~~ Concatenation Number Dictionary with the data set name and volume id from which they were loaded;
- (2) Unresolved External References (ER) are caught, and a diagnostic message is printed, if a branch to a non-existent routine is attempted.

In addition, the data derived from (2) above is written to the SMF data set, using a special SVC routine. This data can be used to monitor program usage, load library access patterns, distribute costs of subroutine libraries, etc.

User and Systems documentation is included on the distribution tape.

(Please attach additional pages if necessary) Total pages attached 1

## Permission to Publish

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

- (17) Signature of Submitter and Date John R. Ehrman 12/17/76
- (18) Signature of Installation Addressee [Signature]

## SLAC Modifications to the VS Loader

### Description of Distribution Tape

The SLAC mods to the VS Loader are contained on a 9-track tape, with standard labels, volid=LOADER. All files except the 6th are card images, blocked with a blocking factor of 25. The 6th file is an IEBCOPY-unloaded partitioned data set containing the Loader. The last three 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 SYSOUT DCB parameters. The DCB parameters for the 6th file are RECFM=VS, BLKSIZE=2000. The files and their contents are:

File	Cards	Dsname	Contents
1	6723	SOURCE	LOADER source in IEBCOPY SYSIN format.
2	53	ASMJCL	Sample JCL to assemble and link the Loader
3	167	TESTJOBS	Sample test jobs to exercise the Loader
4	99	SHFWTR	SHFWTR macro for generating SHF records
5	193	IGC0024E	SVC routine called by SHFWTR macro
6	---	LOADMOD	Load modules (2 members + 3 aliases)
7	348	USERNOTE	User documentation for the Loader
8	267	TECHMEMO	Systems documentation for the SHFWTR macro
9	552	USERSTAT	Documentation for Loader's SHF data

(with header & trailer labels, 27 tape files.)

The file named USERSTAT describes a number of SHF record subtypes; this Loader generates subtype 5. To eliminate the SHF records written by the SHFWTR macro, change the SVC 245 to NOPR 0, or use IMASFPZAP to change it in the load module:

```
NAME HEWLOADR HEWLLIER
VER 11A0 0AF5
REP 11A0 0700
```

If you intend to execute the Loader on a machine with a System/360 architecture that doesn't have the System/370 instructions, then you should assemble module HEWLDRGO with a macro library containing the MVT ATTACH macro. (The VS ATTACH macro expansion generates STCM instructions, which will cause a OC1 ABEND on System/360 machines.) The load module in file 6 has executed correctly under MVT Release 21.8 on a System/360.

Direct technical inquiries and suggestions to

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(415) 854-3300 ext. 2631

December 2, 1976

This is an important revision of the previous version of July 16, 1976, which has two bugs: one can cause initiator abends under rare conditions, and the other causes occasional improper resolution of "never-call" ER items.