

SHARE PROGRAM LIBRARY AGENCY



PROGRAM NUMBER

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SHARE PROGRAM LIBRARY SUBMITTAL FORM

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

SPLA CONTROL NUMBER: 206

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-05.2.016
- (2) System Type (machine)..... 360/370
- (3) Search Key..... Shared DASD,
Reserve Performance
- (4) Programming Systems/Languages..... OS Assembler
- (5) Author's Name and Address..... James Clayton
Steve Jontez
Rick Crowell
- (6) Direct Technical Inquiries to Name & Address James Clayton
(if different than Author) Transamerica Information Services
1149 S. Broadway Street
Los Angeles, California 90015
- (7) Title of Program..... DDSS - Dynamic Data Set Security
Shared DASD enqueue
- (8) Submitter's Installation Membership Code..... TMA
- (9) Submitter's Own Program Identification and Suffix(Optional).....
- (10) Primary Subject Code.....
- (11) Minimum System Requirements MFT/MVT/SVS
- (12) New or Revision Code (if revision, show prior Program Number in Item 1) N
- (13) Year Completed..... 1975
- (14) Date of Submittal..... October 15, 1976
- (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.

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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

ABSTRACT

DDSS was designed to solve the 'shared DASD' excessive reserve problems in a multiple CPU environment. DDSS provides data set level 'logical reserves' thereby limiting the need for device level physical reserves.

DDSS facilities are provided via OPEN/CLOSE interface routines and inter-system communication for each selected direct access data set subject to DDSS protection.

Although DDSS is specifically designed for a multiple-CPU, shared DASD environment, some of the philosophies and features incorporated into DDSS may have utility in a non shared DASD environment. Some of these features are:

- Data set use restricted to the duration OPEN/CLOSE rather than JOB duration.
- Three levels of data set 'enque'; shared, exclusive and write/exclusive.
- Extensive operator/user communication

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

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 _____ 10/15/76

(18) Signature of Installation Addressee _____

Manager
Technical Support Dept.

DDSS is distributed on a 9-track 1600 BPI unlabeled tape containing all source and documentation. All information required to implement DDSS is contained in a PDS which is on the distribution tape. This tape contains a single file, created using IEHMOVE. The JCL to load this file is:

```
//...JOB
//EXEC PGM=IEHMOVE, REGION=128K
//SYSPRINT DD SYSOUT=A
//SYSUT1 DD DISP=OLD, VOL=REF=SYS1.SVCLIB
//DISKDD DISP=OLD, UNIT=SYSDA,
// VOL=SER=Target
//TAPE DD DISP=OLD, UNIT=2400, LABEL=(1,NL),
// VOL=SER=DDSS, DSN=DDSS.DDSS
```

```
COPY PDS=DDSS.DDSS FROM=2400=(DDSS,), FROMDD=TAPE,
      TO=SYSDA=Target/RENAME=supplied/
```

After restoring the data set the member MASTLIST should be listed. This member describes the content of all the members in the PDS DDSS.DDSS.