

# SHARE PROGRAM LIBRARY AGENCY



PROGRAM NUMBER

**990009**

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## University of Miami

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SHARE PROGRAM LIBRARY AGENCY  
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SPLA CONTROL NUMBER 172

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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 (SPLA) 3600-99.0.009
- (2) TITLE OF PROGRAM PROGRAM COLLECTION  
A. MVS AND SVS MONITORS  
B. SMF REPORTS  
C. STRUCTURED ASSEMBLER MACROS  
D. STRUCTURED FORTRAN TRANSLATOR  
E. TSO COMMANDS  
F. UTILITIES  
1. PROGRAMS  
2. SUBROUTINES  
3. MACROS
- (3) SYSTEM TYPE S370-158, AS/6
- (4) SEARCH KEYS MONITORS, SMF REPORTS, STRUCTURED, MACROS, FORTRAN, TSO COMMANDS, UTILITIES
- (5) PROGRAMMING SYSTEMS OS/VS MACRO ASSEMBLER, FORTRAN IV
- (6) PRIMARY SUBJECT CODE 99.0
- (7) MINIMUM SYSTEM REQ. OS/VS
- (8) NEW OR REVISION REVISION AS OF 03/80
- (9) DATE OF SUBMITTAL 03/21/80
- (10) DOCUMENTATION PAGES 0 (ALL MACHINE READABLE ON TAPE)
- (11) AUTHOR'S NAME AND ADDR. DONALD S. HIGGINS  
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- (13) INSTALLATION CODE FPC

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OT780RS.SHRDOC(\$KEY) - KEY TO FLORIDA POWER SHARE PACKAGE TAPE

CONTACT

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FPC SHARE PROGRAM LIBRARY TAPE FORMAT:

1. 3 STANDARD LABEL FILES WITH A TOTAL OF TEN TAPE MARKS.
2. EACH FILE CONSISTS OF 80 BYTE LOGICAL RECORDS BLOCKED 100 (8000).
3. EACH FILE CONTAINS MULTIPLE MEMBERS FOR A PARTITIONED FILE WITH AT IEBUPDTE ./ ADD CONTROL CARD IN FRONT OF EACH MEMBER.

FILE DESCRIPTIONS:

- 1 FPC.SHRPGM SOURCE PROGRAMS, SUBROUTINES, AND MACROS
- 2 FPC.SHRJCL SOURCE JCL PROCEDURES
- 3 FPC.SHRDOC SOURCE DOCUMENTATION

SAMPLE JCL TO CREATE PDS LIBRARIES FROM TAPE

```
//CREATE JOB 0,PGMR
//CREATE EXEC PGM=IEBUPDTE,PARM=NEW
//SYSPRINT DD DUMMY
//SYSIN DD DSN=FPC.SHRPGM,DISP=OLD,
// DCB=(RECFM=FB,LRECL=80,BLKSIZE=8000,DEN=3),
// UNIT=TAPE,
// VOL=SER=XXXXXX, SEE EXTERNAL SERIAL #
// LABEL=(1,SL)
//SYSUT2 DD DSN=FPC.SHRPGM,DISP=(NEW,CATLG),
// DCB=(RECFM=FB,LRECL=80,BLKSIZE=12960),
// UNIT=DISK,SPACE=(CYL,(15,5,50),RLSE)
//CREATE EXEC PGM=IEBUPDTE,PARM=NEW
//SYSPRINT DD DUMMY
//SYSIN DD DSN=FPC.SHRJCL,DISP=OLD,
// DCB=(RECFM=FB,LRECL=80,BLKSIZE=8000,DEN=3),
// UNIT=TAPE,
// VOL=SER=XXXXXX, SEE EXTERNAL SERIAL #
// LABEL=(2,SL)
//SYSUT2 DD DSN=FPC.SHRJCL,DISP=(NEW,CATLG),
// DCB=(RECFM=FB,LRECL=80,BLKSIZE=12960),
// UNIT=DISK,SPACE=(CYL,(15,5,50),RLSE)
//CREATE EXEC PGM=IEBUPDTE,PARM=NEW
//SYSPRINT DD DUMMY
//SYSIN DD DSN=FPC.SHRDOC,DISP=OLD,
// DCB=(RECFM=FB,LRECL=80,BLKSIZE=8000,DEN=3),
// UNIT=TAPE,
// VOL=SER=XXXXXX, SEE EXTERNAL SERIAL #
// LABEL=(3,SL)
//SYSUT2 DD DSN=FPC.SHRDOC,DISP=(NEW,CATLG),
// DCB=(RECFM=FB,LRECL=80,BLKSIZE=12960),
// UNIT=DISK,SPACE=(CYL,(15,5,50),RLSE)
```

DT780RS.SHRDOC(\$NEW) - MAJOR ENHANCEMENTS WITH RELEASE 03/80

RELEASE 03/80

1. MVSMON - MAJOR ENHANCEMENTS SINCE RELEASE 01/79 INCLUDE THE FOLLOWING:

- A. ADDRESS SPACE MONITOR DISPLAY NOW INCLUDES
  1. CPU USAGE RATE
  2. SIO USAGE RATE
  3. PAGING RATE
  4. TRACE TABLE EVENT COUNTS FOR EACH ASCB
    - A. SVC COUNT
    - B. SIO COUNT
    - C. PGM INT. COUNT
    - D. I/O INT. COUNT
  5. TOTAL CPU TIME
  6. TOTAL SIO COUNT
  7. ELAPSED TIME IN EXECUTION
- B. QCB DISPLAY SELECTION CAN BE MADE ON ANY LEVEL OF QUALIFICATION DESIRED.
- C. UCB SIO RATE DISPLAY CAN SELECT UCB RANGE AND MINIMUM SIO PER SECOND RATE.
- D. NEW SRM DISPLAY OF LIMITS AND CURRENT AVERAGE FOR UIC, CPU, ASMQ, AND PAGING.
- E. HELP MODE PROVIDES DOCUMENTATION ON EVERY COMMAND.
- F. PF KEYS MAY BE REDEFINED BY USER.

2. FPCMON - CONTINUOUS SYSTEM MONITOR WHICH LOGS THE FOLLOWING INFORMATION AT SPECIFIED INTERVALS:

- A. CURRENT SIO COUNT FOR EVERY UCB.
- B. CPU, MEMORY, AND I/O COUNTS FOR SELECTED FIXED TASKS AND THE MOST ACTIVE REMAINING TASKS.
- C. DATE AND TIME OF LAST IPL.

THE INFORMATION IS STORED IN A DIRECT ACCESS FILE AND IS IMMEDIATELY AVAILABLE FOR ONLINE TSO INQUIRY. AT FPC THE INFORMATION IS LOGGED EVERY 5 MINUTES AND THE FILE IS LARGE ENOUGH TO HOLD THE LAST 7 DAYS ACTIVITY BEFORE THE FILE RECYCLES. THE CURRENT DISPLAY FUNCTIONS INCLUDE:

- A. SELECT ANY PERIOD DURING THE LAST 5 DAYS.
- B. DISPLAY MINIMUM, MAXIMUM, AND AVERAGE UCB SIO RATE FOR SELECTED UCBS DURING PERIOD. THIS HAS BEEN USED VERY SUCCESSFULLY TO IDENTIFY PROBLEM TP LINES AND UNBALANCED DISK USAGE DUE TO SPECIFIC JOBS. IT ALSO SHOWS UTILIZATION OF ALL DEVICES. YOU CAN FIND VERY LOW USAGE DEVICES THIS WAY.
- C. DISPLAY CPU, MEMORY, AND I/O USAGE FOR SELECTED AND HEAVY TASKS DURING ANY INTERVAL. THIS IS VERY USEFUL FOR LOOKING AT WHAT WAS HAPPENING WHEN THE SYSTEM SLOWED DOWN. THE INFORMATION CAN BE LISTED OR GRAPHED. IT IS GREAT FOR LOOKING AT CICS ACTIVITY AND GETTING A FEEL FOR THE DAILY LOAD CYCLE AND THE IMPACT OF CHANGES OR PROBLEMS.

JT780RS.SHRDOC(\$LOG) - LOG OF CHANGES TO FPC SHARE LIBRARY PACKAGE  
CHANGES FOR RELEASE 3

01/15/79 ADD FINDPGM - MACRO TO TEST FOR PGM IN LINKLIST OR PDS  
WTP - MACRO TO ISSUE WRITE TO PROGRAMMER WTO

01/22/79 ADD ENHANCEMENTS TO SMF REPORTING SYSTEM

1. ADD REPORT R17 SYSTEM WORKLOAD REPORT  
SHOWING TSO RESPONSE BY PERIOD (FROM TYPE 72)
2. ADD PROCEDURE USAGE ON JOB AND PROGRAM CROSS  
REFERENCE REPORTS ( FROM USER TYPE 231)

01/30/79 ADD CS323000 SUMMARY SMF MANAGEMENT STATISTICS

02/07/79 ADD NOSTAE - SUBROUTINE TO ELIMINATE U240 ABENDS  
ADD NOSPIE - SUBROUTINE TO ALLOW ALL OCX ABENDS

02/21/79 ADD ABEND - SUBROUTINE TO ISSUE USER ABEND  
ADD WTO - SUBROUTINE TO ISSUE WRITE TO OPERATOR

02/28/79 ADD WTOR - SUBROUTINE TO ISSUE WTO AND REPLY  
ADD GTSIZE - SUBROUTINE TO GET TERMINAL SIZE  
ADD SNAP - SUBROUTINE TO SNAP DUMP AREAS  
ADD TGET - SUBROUTINE TO GET TSO MSG  
ADD TPUT - SUBROUTINE TO PUT TSO MSG

03/16/78 ADD EXEC - SUBROUTINE TO SUPPORT ALC INSTRUCTIONS  
IN THE FORM OF A CALL LIST AND SUPPORT  
DYNAMIC STORAGE STRUCTURES. ALSO INCLUDE  
EXEC TEST TEST PROGRAM

03/27/79 UPDATE SMF DAILY REPORTING SYSTEM RELEASE 79.1

04/12/79 ADD GU103000 PRINT FILE COMPARE UTILITY

04/17/79 ADD TIMER DOCUMENTATION TO SHRDOC LIBRARY  
UPDATE TIMER FIX BUG IN OPTION 10 AND ADD 14-17.  
ADD CS324000 JOB SCHEDULING REPORT

05/11/79 UPDATE CS301000 FIX TYPE 26 FIELD OFFSETS CORRECTED  
CS303000 BY IMPLIMENTATION OF JES2 4.1

08/21/79 UPDATE GU014300 FIX INCORRECT PROGRAM ID IN \$SHRSUB FOR  
GETPOSDE (WAS SPECIFIED AS GU014200).  
REPORTED BY TOM JACOBSON (815)987-6287.

09/28/79 UPDATE CSXXX000 RELEASE 79.02 OF SMF DAILY REPORTING  
SYSTEM. MAJOR ADDITIONS.

1. JOB SCHEDULING REPORT CS304R45.
2. NUMEROUS FIXES AND CHANGES.

10/10/79 ADD GU716001 FPCRDR UTILITY TO SUBMIT JOBS AT SPECIFIED  
TIMES.

10/18/79 ADD T0003000 DSAT FPL TSO COMMAND - DISPLAY DSN INFO.  
T0004000 DVOL FPL TSO COMMAND - DISPLAY VOL INFO.  
T0005000 MMDEL FPL TSO COMMAND - DELETE PDS MEMBERS  
T0006000 T0007000 T0008000 T0009000

DT780RS.SHRDOC(\$OLD) - MAJOR SOFTWARE FROM PREVIOUS RELEASES

RELEASE 2.0 - 01/79

1. MVS MON - MVS REAL TIME MONITOR
2. SMF DAILY REPORTING SYSTEM
3. TSO COMMANDS
4. SVS UTILITIES

RELEASE 1.0 - 12/74

1. STRUCTURED ASSEMBLER MACROS - SEE SHRODC(STRMAC)
2. STRUCTURED FORTRAN TRANSLATOR - SEE SHRODC(STRFORT)
3. UTILITY PROGRAMS AND SUBPROGRAMS WHICH ARE STILL USED UNDER MVS.

\* DT78JRS.SHRDQC(\$SHRJCL)- INDEX TO FPC SHARE JCL PROCEDURES

\*  
\* PAN            PDS            DESCRIPTION  
\* NAME          NAME

\*  
\* \*\*\* LANGUAGE COMPILERS    \*\*\*\*  
\*

GU800ROP FORTC            STRUCTURED FORTRAN 61  
GU810ROP FORTCL  
GU820ROP FORTCLG

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\* \*\*\* PAN SOURCE LIBRARY \*\*\*  
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GUXX1130 EDITPAN          EDIT PAN MEMBER USING TEXT EDITOR IN BATCH  
GU821ROP PCOMPARE        COMPARE TWO MEMBERS OF PAN LIBRARY

\*  
\* \*\*\* PDS UTILITIES \*\*\*  
\*

GUXX1270 PDSOLIST        LIST PDS DIRECTORY (780 ENTRIES PER PAGE)  
GUXX1280 PDSMLIST        LIST ALL OR SELECTED MEMBERS OF SOURCE PDS  
GUXX1310 PDSCLIST        CROSS REFERENCE MEMBERS AND CSECTS OF LOAD PDS

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\* \*\*\* SMF DAILY REPORT PROCEDURE \*\*\*  
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CS301ROP                SMF DAILY REPORTING SYSTEM PROCEDURE

\*  
\* \*\*\* GENERAL UTILITIES \*\*\*  
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GUXX1230 TABULATE        LIST AND TABULATE UP TO 12 COLUMNS OF NUMBERS  
ER904ROP RENUM          FORTRAN RENUMBER  
GUXX1150 TVOLCOPY        COPY TAPE VOLUME  
GU102ROP KWICRPTS        KEY WORD IN CONTEXT REPORT GENERATOR  
GU822ROP COMPARE        COMPARE TWO SEQUENTIAL SOURCE FILES

AM010000 XCP	EXECUTE CHANNEL PGM ( XCP IOB,CCW,ERREXIT)
AM010100 MC	MONITOR CALL
AM010200 CDS	COMPARE DOUBLE AND SWAP
AM010300 CS	COMPARE AND SWAP
AM010900 EQUBC	EQUATE COMMON BC CONDITIONS (EQ,LT,GT,LE,ETC.)
AM011800 LOGICAL	DEFINE LOGICAL SWITCH BY STATE NAMES
AM011900 DCWV	DEFINE WEAK V CON (L R15,V BALR R14,R15)
AM012000 LOADTCB	LOAD ADDRESS OF TCB WITHOUT EXTRACT
AM012100 LOADTIGT	LOAD ADDRESS OF TIGT WITHOUT EXTRACT
AM012200 FINDDO	SET R1 TO ADDR OF TIGT DD ENTRY OR ZERO
AM012400 ACCEPT	READ 80 BYTE RECORD FROM SYSIN
AM012500 DISPLAY	PRINT 133 BYTE RECORD ON SYSPRINT
AM012600 TPPUTMSG	CALL TPPUT TO ROUTE MSG VIA MPS (GU640000)
AM012700 TRTTAB	DEFINE COMMON TRANSLATE TABLES (PRINT,NUMERIC,
AM012800 PTRACE	INVOKE TRACE OF EVERY PERFORM ON PTRACE DD
AM012900 FINDCDE	SET A1 TO ADDR OF CDE OR ZERO
AM013000 DBEXIT	ALIAS OF DD TO END REPEAT BLOCK
AM013100 HDC	DEFINE HEADING DATA BY STARTING COLUMN
AM013200 ABSP	MAKE PACKED FIELD ABSOLUTE (SIGN F)
AM013300 CLGDSECT	DSECT OF RECORDS FROM GU027000 - GETCATLG
AM013400 QCBS	VS2-R1 QCB DSECT
AM013500 SDCB	SHORT FORM DCB (SDCB M=3L,R=FB,L=80,E=EDFRTN)
AM013700 XCOM	SVC INTERFACE FOR CROSS MEMORY MESSAGE SWITCH
AM013800 FINDPGM	SEARCH FOR PROGRAM AND SET RC 0 IF FOUND
AM013900 WTP	WRITE TO PROGRAMMER
AM014000 SDSA	START DEFINE STORAGE AREA WITH UNKNOWN LENGTH
AM014100 EDSA	END DEFINE STORAGE AREA AND DEFINE LABEL

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\* TSO COMMAND PROCESSOR MACROS FOR FPL CODE (SEE T0003000)  
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AM020000 \$CALL	FPL	MACRO
AM021000 \$ENTER	FPL	MACRO
AM022000 \$RTRN	FPL	MACRO
AM023000 #CTGPL	FPL	MACRO
AM024000 #SORT	FPL	MACRO
AM025000 #TSOBLKS	FPL	MACRO
AM026000 #TSOMSG	FPL	MACRO
AM027000 #UCS	FPL	MACRO
AM028000 #VTCFMT1	FPL	MACRO
AM029000 #VTCFMT3	FPL	MACRO
AM030000 #VTCFMT4	FPL	MACRO
AM031000 #VTCFMT5	FPL	MACRO
AM032000 IKJATRCB	FPL	MACRO
AM033000 IKJEBEST	FPL	MACRO



GU460000	KWICUTL	UTILITY TO PRODUCE KWIC LISTINGS
GU687000	UCBZAP	DYNAMICALLY ZAP UCB DEVICE TYPES VIA BATCH
GU860000	ENQEXEC	ISSUE ENQ AND EXECUTE PGM SPECIFIED IN PARM

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\* \*\*\* FORTRAN PROGRAMMING AIDS \*\*\*

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ER011000	RENUM	RENUMBER AND CROSS-REFERENCE FORTRAN PROGRAM
GU118000	SFT4LC	STRUCTURED FORTRAN TRANSLATOR IN ALC
GU119000	SFTSFORT	STRUCTURED FORTRAN TRANSLATOR IN STRUCTURED FORT
GU119001	SFTFORT	STRUCTURED FORTRAN TRANSLATOR BOOTSTRAP IN FORT
GU137000	QUEENS	STRUCTURED FORTRAN TRANSLATOR 8 QUEEN DEMO
GU138000	SFTTEST	STRUCTURED FORTRAN TRANSLATOR TEST PGM
GU682000	QUEINIT	INITIALIZE FIFO MESSAGE QUEUE FOR FORTRAN
GU683000	QUEGET	QUEUE GET/PUT SUBROUTINE
GU684000	QUETEST	TEST PROGRAM FOR QUEUE
GU722000	SWF	SEQ. REUSEABLE FILE FOR FORT VIA BDAM (NO OPENS)
GU723000	SMFTST	SWF TEST PROGRAM

GU427000	TGET	GET TSO MESSAGE - CALL TGET(MSG,LMSG)
GU428000	TPUT	PUT TSO MESSAGE - CALL TPUT(MSG,LMSG)
GU429000	EXEC	EXECUTE ALC AND SUPPORT DYNAMIC STORAGE
GU430000	EXECTEST	TEST EXEC SUBROUTINE FOR EACH INSTK.
GU450000	KWIC	KEY WORD IN CONTEXT SHIFT FIELD SUBROUTINE
GU610000	BYNAME	DYNAMIC CALL INTERFACE (PRIOR TO DCALL)
GU620000		BYNAME SUPPORT SUBROUTINE
GU650000	BISAMSET	FIND CLOSEST RECORD TO LAST BISAM READ
GU703000	ABTERM	ABTERM INTERFACE
GU710000	SRTBLMGR	DYNAMIC TABLE LOADER FOR COBOL
GU713000	ENQDEQ	ENQ/DEQ VIA CALL (ALSO MACRO NAMES)
GU736000	USERID	RETURN TSO USER ID OR JOBNAME
GU737000	CSRNO	RETURN CSR NUMBER FOR CURRENT JOB OR TSO USER
GU739000	DDUAV	RETURN UNIT AND VOLUME OF A GIVEN DDNAME
SR201000	DCALL	DCALL DYNAMIC CALL INTERFACE
SR203000	SR203000	ISAM FILE INTERFACE
SR204000	SR204000	BDAM FILE INTERFACE
SR308000	FSF	INTERFACE TO TSO 3270 FULL SCREEN FACILITY
SR309000		FSF SUPPORT ROUTINE
SR310000		FSF TEST DRIVER
SR311000	DLOAD	DYNAMIC LOAD ONLY SUBROUTINE
SR312000	SBREAK	PROVIDE BREAK KEY PROGRAM CONTROL FOR TSO
SR313000		DEMO FORTRAN PROGRAM FOR SBREAK

\*  
\* MVS SYSTEM UTILITIES  
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SR301000	XCOMSVC	SVC TO MESSAGE SWITCH BETWEEN ANY ASCB TASK
SR302000	XCPATH	USER CALL INTERFACE TO DYNAMICALLY LOADED SR
SR303000		USER CALL INTERFACE SUPPORT
SR304000		XCOM TEXT PROGRAM
GU949000		FPCMON TSO DISPLAY COMMAND FOR LONG TASKS
GU949010		FPCMON DATA COLLECTION SUBROUTINE
GU949020		FPCMON SYSTEM TASK MAINLINE
GU949030		FPCMON FILE MAINTENANCE

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\* MVS TSO COMMAND PROCESSORS  
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GU104000	PGMDIR	LIST SELECTED RANGE OF FPC PAN PROGRAM DIRECTORY
GU952000	PDSDIR	LIST SELECTED RANGE OF PDS DIRECTORY ENTRIES
SR305000	XCOM\$	TSO DRIVER TO MESSAGE SWITCH TO ANY ASCB TASK
T0002000	WHOAMI	IDENTIFY TSO USER
T0003000	DSAT	FPL DISPLAY DATA SET INFO.
T0004000	DVOL	FPL DISPLAY VOLUME INFO.
T0005000	MMDL	FPL DELETE MEMBERS OF PDS.
T0008000	PORTS	LIST CURRENT TSO USERS AND THEIR PORTS
T0009000	WHERIS	IDENTIFY SPECIFIED TSO USER
T0009001		TERMINAL LOCATION INDEX
T0010000		UPDATE USER ID TABLE
T0011000		UID TABLE
T0012000	TERMSET	SET TERMINAL CHARACTERISTICS
T0023000	PANGET	COPY PAN MEMBER TO TSO DSN
T0024000	PANDIR	LIST SELECTED RANGE FROM PAN DIRECTORY
T0025000	PANPUT	COPY TSO DSN TO PAN MEMBER
T0027000	PANEXIT	EXIT FOR CONTROL OF PAN USAGE
T0030000	JULGRE	CONVERT JULIAN TO GREGORIAN
GU955000	MVSMON	MVS MONITOR FOR OPERATORS AND TSO USERS