

SHARE PROGRAM LIBRARY AGENCY



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SHARE PROGRAM LIBRARY SUBMITTAL FORM

SHARE PROGRAM LIBRARY AGENCY

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SPLA CONTROL NUMBER: SHR00267

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) 370D-06.3.019

(2) Title of Program DSPRINTQ

(3) System Type(s) (Machine) MVS

(4) Search Key(s)

(5) Programming Systems/Languages ASM H, PL/I Optimizer

(6) Primary Subject Code

(7) Minimum System Requirements MVS/TSO/VTAM/DSPRINT

(8) New (N) or Revision (R) (if revision, show prior Program Number in Item 1) N

(9) Date of Submittal 6/28/83

(10) Documentation (number of original pages submitted) 24

(11) Author's Name and Address Ralph Boone

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(12) Direct Technical Inquiries to Name & Address (if different than Author)

(13) Submitter's Installation Membership Code KP

(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.

ATTACHED

SHARE PROGRAM LIBRARY SUBMITTAL FORM

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

ATTACHED

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

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 Roger Bone 6/28/83

(15) Signature of Installation Addressee _____

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DSPRINTQ

DSPRINTQ provides the installation with the ability to interactively display print request information and display/modify individual printer attributes associated with DSPRINT (IBM FDP 5798-CPF).

The program operates under TSO and manipulates the request queue dataset maintained by DSPRINT. Appropriate ENQ/DEQ processing is performed to protect the integrity of the request queue.

DSPRINTQ provides subcommands to display either ALL print requests that are currently queued, or those selected by printer id, user id, or request id. Along with each request displayed is the request number, printer name, user id, date and time of request, and name of dataset to be printed.

DSPRINTQ subcommands are available to display attributes of either ALL printers defined to DSPRINT, or a specific one. Included in the display of each printer is the printer name, buffersize, page width/length, top/bottom margin, and printer type.

DSPRINTQ can also dynamically alter printer attributes, including printer name, buffersize, page width/length, and printer type. By creating a DSPRINT request queue with extra unused printer elements, and using DSPRINTQ to change the dummy printer names to valid ones, the installation can effectively add new printers to DSPRINT without re-creating the request queue each time.

DSPRINTQ has a built-in HELP subcommand, which describes the functions and parameters of all valid subcommands. The program also has an assembler subroutine, called before the execution of subcommands which modify the request queue, which can be used for authorization checking.

DSPRINTQ has also been used successfully to manipulate the ADMPRINT request queue (IBM PP 5748-XXH), instead of the DSPRINT request queue, by applying two short zaps included on the distribution tape.

Included as the distribution materials are source code, a load module, an example clist, and the JCL required for creating a DSPRINT request queue with 206 printer definitions and 155 request queue elements. DSPRINTQ will operate on an existing request queue, but re-creation may be preferred to take advantage of the capability to 'ADD' printers as earlier described.

Programming - PL/I code compiles using OPTIMIZER COMPILER; assembler code assembles using ASSEMBLER H.

Minimum System Requirements - MVS/TSO/VTAM/DSPRINT (IBM FDP 5798-CPF).

DSPRINTQ ---COMMANDS SUMMARY

D T,TID/ALL

Display terminal characteristics. TID is the VTAM printer name. "ALL" can be used to display all terminals with their characteristics. Information shown in display includes buffer size used, page width/length, top/bottom margin sizes, hardware print position count and printer type.

D Q,TID/ALL

Display DSPRINT queued requests. TID is the VTAM printer name. "ALL" can be used to display all queued requests in the system. Information displayed includes request number, terminal name, userid issuing request, date/time of request, and dataset name.

D U,UID

Display all DSPRINT requests issued by a specific userid, information displayed includes request number, terminal name, userid issuing request, date/time of request, and dataset name.

D R,RID

Display information on request number specified. Information displayed includes request number, terminal name, userid issuing request, date/time of request, and dataset name.

D S

Display system queue constants. Information displayed includes background probe time, next request number, printer element count, and queue element count.

A N,TID,NEW

Alter the name of a printer defined to DSPRINT. TID is the current node name of the printer and NEW is the new node name.

A B,TID,NEW

Alter the buffersize of a printer. TID is the node name of the printer and NEW is the new value for buffersize from 1-1920.

A W,TID,NEW

Alter the maximum (and default) page width specification for a printer. TID is the node name and NEW is the width value from 1-255.

DSPRINT --- COMMANDS SUMMARY (CONTINUED)

A L,TID,NEW

Alter the default number of lines to print on one printer page (perforation to perforation). TID is the printer node name and NEW is the new length value 1-255.

A P,TID,NEW

Alter the count of hardware print positions for a printer. TID is the node name and NEW is the new position value (80,120, 126 or 132).

A T,TID,NEW

Alter the type of a printer. TID is the node name and NEW is the value for printer type.

1. - 3284/6/8 no vertical form feed.
2. - 3284 6/8 vertical form feed.
3. - 3790 batch function printer.
4. - 3287/9 SLUI no vertical form feed.
6. - 3287/9 SLUI vertical form feed.

H

Display HELP information (this display).

E

End DSPRINTQ processing

TAPE KEY -- DSPRINTQ -- VOL=SER=AISHR

LABEL=(1,SL) DSN=DSPRINTQ.DATA
DCB=(RECFM=VS,LRECL=6176,BLKSIZE=6180)
IEBCOPY unloaded PDS with 6 members:
3 source, 1 JCL, 1 clist, 1 zap.

LABEL=(2,SL) DSN=DSPRINTQ.LOAD
DCB=(RECFM=VS,LRECL=6160,BLKSIZE=6164)
IEBCOPY UNLOADED PDS with 1 member:
1 load module.

INSTALLATION

1. Run following job to load datasets from tape to disk:

```
//          JOBCARD
//      EXEC PGM=IEBCOPY
//DISKDATA DD DSN=SYS1.DSPRINTQ.DATA,VOL=SER=diskvol,
//          SPACE=(CYL,(2,1,5)),DISP=(,CATLG),UNIT=disk
//DISKLOAD DD DSN=SYS1.DSPRINTQ.LOAD,VOL=SER=diskvol,
//          SPACE=(CYL,(1,1,5)),DISP=(,CATLG),UNIT=disk
//SYSPRINT DD  SYSOUT=A
//TAPEDATA DD  DSN=DSPRINTQ.DATA,DISP=(OLD,PASS),
//          LABEL=1,VOL=SER=AISHR,UNIT=tape
//TAPELOAD DD  DSN=DSPRINTQ.LOAD,DISP=(OLD,PASS),
//          LABEL=2,VOL=SER=AISHR,UNIT=tape
//SYSIN      DD      *
          COPY I=TAPEDATA,O=DISKDATA
          COPY I=TAPELOAD,O=DISKLOAD
/*
```

2. Optionally recreate your dsprint request queue by submitting the job in SYS1.DSPRINTQ.DATA(DSPGEN). (The JCL may need to be modified slightly to conform to installation standards.)
3. To execute DSPRINTQ, enter the following from TSO:

EX 'SYS1.DSPRINTQ.DATA(DSPQ)'

Enter H to obtain instructions on the use of subcommands available for DSPRINTQ.

NOTES

1. Instructions are supplied in the source code of ENQ to provide security checking for ALTER subcommands. This checking is optional, and is not included in the supplied load module. If this checking is desired, appropriate code must be inserted in ENQ, and ENQ must be re-assembled and linked into SYS1.DSPRINTQ.LOAD(DSPRINTQ).
2. SYS1.DSPRINTQ.DATA(ADMPRINT) contains zaps necessary to alternately run DSPRINTQ on an ADMPRINT request queue. Note that the dname of the queue specified in SYS1.DSPRINTQ.DATA(DSPQ) will also have to be changed.
3. SYS1.DSPRINTQ.DATA has members which have both upper and lower case letters. The parameters in lower case must be modified to conform to installation standards.