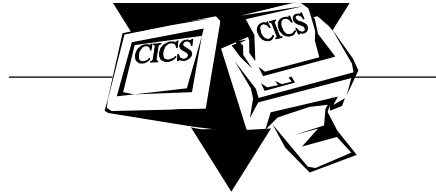


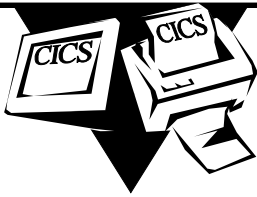
# ***CICS/SPOOLER***



**CICS terminal printer spooling system**

**MacKinney Systems, Inc.**

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## **Printer Spooling for CICS**

CICS/Spooler is a terminal printer spooling system for CICS which improves throughput of printer-oriented programs. It also simplifies programming by eliminating the complexities of various types of printers, allowing for restart, recovery, multiple copies, etc. To spool a report from a CICS program, simply move your print-line into our commarea and link to our program. Passing an optional header line allows you to specify printer-id, user name, report title, number of copies, etc. You may view your reports on a CRT before deciding if you want to print them.

### **JES and POWER BATCH Interface**

CICS/SPOOLER uses its own VSAM file for storing reports. Reports which were spooled to the VSE/POWER queue or JES queue by batch jobs may be loaded into the CICS/SPOOLER queue with a utility we provide, or batch jobs may spool directly to the CICS/SPOOLER queue. Any report in the CICS/SPOOLER queue may be sent to any CICS printer or re-spoiled to VSE/POWER or JES. Reports may be printed automatically or held for review by the end user before printing.

### **VSE/POWER CICS interface**

CICS/SPOOLER contains a full function VSE/POWER interface. POWER queue entries can be viewed with full scrolling support and character string searching. VSE/POWER LST queue entries can be printed directly to any CICS printer without first spooling them to the CICS/SPOOLER queue. VSE/POWER entries can be deleted or changed online through CICS/SPOOLER. A similar JES CICS interface is not included in this package. However, JES queue jobs can be spooled to the CICS/SPOOLER queue and viewed in CICS.

---

## **Report splitting**

Reports can be segmented to load only part of a report into the CICS/SPOOLER queue or a report can be split into several segments and sent to different users.

## **Other features**

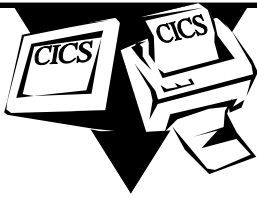
A purge program automatically deletes old reports and reorganizes the CICS/SPOOLER queue file. Printers may be limited to printing jobs with a certain form-id to stop other users from printing while your special forms are on the printer. Forms Control Buffer (FCB) emulation is supported.

CICS/SPOOLER is year 2000 compliant.

Unlike IBM's CICS report controller feature, CICS/Spooler allows full printer sharing with any other CICS or VTAM application.

Autolog facility allows a message to be written to a CICS transient data queue or the system console whenever a user performs a CICS/Spooler function.

Even with all these features, CICS/SPOOLER is still the lowest priced CICS printer spooling system on the market.



## Menu Driven

CICS/SPOOLER is fully menu driven, but transaction ids can be entered as a "FAST PATH" to bypass menus.

```
SPOM21                                CICS/SPOOLER Main Menu
                                       MACKINNEY SYSTEMS

      1: Display CICS/SPOOLER Queue
      2: Alter Printer Information
      3: Update User Profile
      4: Display the Printer Queue
      9: Display VSE/Power Queue

Option ==> __

PF1-Help  PF3-Exit  CLEAR-Exit
```

Using option 1 allows you to display the CICS/SPOOLER queue. By specifying criteria to select queue entries you can select by jobname (or a jobname prefix), user id, printer, form id, terminal id, class, number of pages, report creation date, or spooler status.

```
SPOM23                                CICS/SPOOLER Queue Menu
                                       MACKINNEY SYSTEMS

Enter optional parameters below to limit power queue entries to be displayed

Jobname ==> _____ (PREFIX OR ENTIRE NAME)
Printer ==> _____
User =====> _____ (PREFIX OR ENTIRE NAME)
Form-ID ==> _____
Class =====> _____
Status =====> - 1- Report being spooled, 2-Spooling completed
Pages =====> - _____ (EQ-Equal, GT-greater, LT-Less) number of pages
Date =====> - _____ (EQ-Equal, GT-greater, LT-Less) report creation date
                                     in CCYYMMDD format or leave blank to use current date

PF1-Help  PF3-End  CLEAR-Exit
```

No limitations were entered on screen SPOM23 in this example. Therefore, all eligible entries on the CICS/SPOOLER queue will display on screen SPOM25; however, a security system is provided to limit what a user may have access to.

CICS/SPOOLER queue entries can be viewed, printed, or deleted. Entering a 'V' allows you to view the report LCTRUN (bottom screen).

```

SPOM25          CICS/SPOOLER Queue Directory          PAGE 001 OF 1
                MACKINNEY SYSTEMS

JOBNAME-NUMBER USER_ID S D C DATE TIME PAGES  FORM  CPY H PRINTER
- GLOPRT  5064 CSPP  2 H A 960220 1528  3  _____ 001 N P01 _____
- SAMPLE GLOSSARY REPORT
- HOTPRT  9844 RJS1  2 H A 960218 0830  2  _____ 001 N P01 _____
- SAMPLE HOTPRINT REPORT1
- HOTPRT  9849 RJS1  2 H A 960218 0912  4  _____ 001 N P01 _____
- SAMPLE HOTPRINT REPORT2
V LCTRUN  5203 DLM1  2 H A 960222 1425  11 _____ 001 N P01 _____
IDCAMS - LISTCAT
- SPOP760E 5122 SPOPUSER 2 H A 960221 0923  1 TESTFORM 001 N *PRINTER
- SPOP760E - REPORT1
- SPOP760E 5124 SPOPUSER 2 H A 960221 0940  4 TESTFORM 002 N *PRINTER
- SPOP760E - REPORT2

FUNCTIONS: V=View P=Print S=Show detail 5=Delete I=Immed print
PF1=Help PF2=Refresh PF3=End PF6=PRTQ PF7=Back PF8=Forw CLEAR=Exit
PF9=Top PF12=Bottom

```

When viewing a report, full function scrolling is supported. You can also scan for a character string.

```

SPOM25          CICS/SPOOLER Queue View Report      PAGE COL LINE
FUNCTION: D20 (Fnn Bnn TOP BOT Rnn Lnn Unn Dnn PRT SCN) 1 1 1
REPORT: IDCAMS - LISTCAT USER: DLM1 SCN: _____
IDCAMS SYSTEM SERVICES TIME: 09:33:2

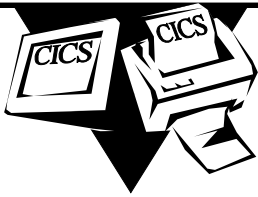
                LISTING FROM CATALOG -- VSESP.USER.CATALOG

CLUSTER -----CICSTEST.CLRADHV.MASTER
HISTORY
OWNER-IDENT----- (NULL) CREATION-----95.347
RELEASE-----2 EXPIRATION-----00.000
PROTECTION----- (NULL)
ASSOCIATIONS
DATA-----CICSTEST.CLRADHV.DATA
INDEX----CICSTEST.CLRADHV.INDEX

DATA-----CICS.CLRADHV.DATA
INDEX----CICSTEST.CLRADHV.INDEX

DATA ----- CICSTEST.CLRADHV.DATA
HISTORY
OWNER-IDENT----- (NULL) CREATION-----95.347
RELEASE-----2 EXPIRATION-----00.000
PROTECTION----- (NULL)
ASSOCIATIONS
PFK: 1=Help 3=End 5=Scan 7=Back 8=Forw 9=Top 10=Left 11=Right 12=Bot Clear=Exit

```



## **Split Mode**

This function allows the left portion of the report to remain fixed while the right portion of the report is shifted to the right to view columns that do not fit on the screen. The left and right portions of the report are separated by the '|' character. The number of columns that make up the left portion of the screen is based on the cursor position when the PF2 (Split) key is pressed.

To enable the SPLIT function, position the cursor within the report line area of the screen, lines 4 to 23 and columns 1 to 60 for model 2, 3, or 4 terminals or columns 1 to 110 for model 5 terminals, and press the PF2 (Split) key.

To disable the SPLIT function, position the cursor outside the report line area of the screen (lines 1, 2, 3, and 24) and press the PF2 (Split) key.

While in SPLIT mode the value shown in the COL field on the screen is the starting column for the right portion of the screen.

When the SPLIT function is active, the SCAN function can not be used.

### **Split Mode Example**

The following screen contains a report about datasets used in the system. When NOT using the SPLIT mode, the 'CI SIZE' column will not display on the same screen as the 'DATASET NAME' column. In order to view both the 'DATASET NAME' column and the 'CI SIZE' column, position the cursor immediately to the left of the word VOLUME and press PF2 (Split).

```

SPOM26                CICS/SPOOLER Queue View Report                PAGE COL LINE
FUNCTION: D20 (Fnn Bnn TOP BOT Rnn Lnn Unn Dnn PRT SCN)                9 27 1
REPORT:                USER: DLM                SCN:
02/09/96 AT 09.33     MACKINNEY SYSTEMS                V S A M C A T A L O G L I S
DATASET NAME          C ---ALLOCATED---- NUM SPLITS PCT UNUSED
                       VOLUME T TYP PRI SEC EXT CI CA FULL TRK-BL
CICSTEST.CLRADHV.MASTER
*- CICSTEST.CLRADHV.DATA DOSRES A B 73 73 1 2 100
  CICSTEST.CLRADHV.INDEX DOSRES A B 73 73 1 1 72

PFK: 1-Help 2-Split 3-End 5-Scan 7-Back 8-Forw 9-Top 10-Left 11-Right 12-Bot

```

Cursor  
position

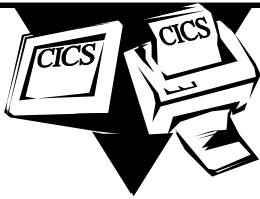
After pressing the PF2 (Split) key the following screen is displayed. Notice the 'COL' field on the screen displays the starting column position of the right portion of the report and the '|' character separates the left and right portions of the report.

```

SPOM26                CICS/SPOOLER Queue View Report                PAGE COL LINE
FUNCTION: D20 (Fnn Bnn TOP BOT Rnn Lnn Unn Dnn PRT SCN)                9 27 1
REPORT:                USER: DLM                SCN:
02/09/96 AT 09.33     MAC|KINNEY SYSTEMS                V S A M C A T A L O G L I S
DATASET NAME          C ---ALLOCATED---- NUM SPLITS PCT UNUSED
                       VOLUME T TYP PRI SEC EXT CI CA FULL TRK-BL
CICSTEST.CLRADHV.MASTER
*- CICSTEST.CLRADHV.DATA DOSRES A B 73 73 1 2 100
  CICSTEST.CLRADHV.INDEX DOSRES A B 73 73 1 1 72

PFK: 1-Help 2-Split 3-End 5-Scan 7-Back 8-Forw 9-Top 10-Left 11-Right 12-Bot

```



## Automatically Transfer Reports from JES or POWER to CICS/SPOOLER with little or no JCL Changes!

A CICS/SPOOLER batch program can be used to automatically transfer reports from the system spool queue (JES or VSE/POWER) to the CICS/SPOOLER queue. After the transfer the report can be printed on any CICS printer. Reports can be segmented to load only part of a report or a report can be split into multiple segments and sent to several different users (segmentation).

A CICS/SPOOLER program is started and continues to run during the time reports need to be automatically transferred. Reports can be transferred based on their Class and/or Formid. The JCL used to produce a report need only specify the correct class and Formid to be processed by CICS/SPOOLER.

### Header Control

The report header contains the information necessary to route a batch report from the system spool (VSE/POWER or JES) to the CICS/SPOOLER VSAM file. Header information can be report text, a parameter card input (VSEonly), or on a file (maintained by online screens similar to the following).

```
SP0M56          CICS/SPOOLER Batch Report Header Update    01/25/96 17:41
                                     Current Mode: UPDATE
      JOB Name: GLOPRT
      Description: MacKinney_Systems          Segments: N Y/N

CICS Printer ID: P01
User Name: CSPP
Number of Copies: 001
Header/Trailer: N                ( Y or N )
Disposition: D                    ( P, D, H or L )
Jes/Power disp: D                (K or D)
Form ID: _____
Class: _____
Days: 010

Use FCB Emulation: N Y/N

FCB Channel: 1  2  3  4  5  6  7  8  9  A  B  C  D  E  F
Report Line: _____

ENTER=Update      PF1=Help          PF3=End          PF5=Segments
PF9=ToggleMode    PF12=Cancel
```



---

## Segmentation Control

The batch segment contains the information necessary to create a report segment from a system spool (VSE/POWER or JES) batch report in the CICS/SPOOLER VSAM file. Header information can be provided in the report text, parameter card input (VSE only), or on file (maintained by online screens similar to the one above).

```
SP0M58          CICS/SPOOLER Batch Segment Update      01/25/96 17:41
                Current Mode: UPDATE
JOB Name: DEFAULT Segment Pass: 010 Seq: 010
Description: FIRST_SEGMENT

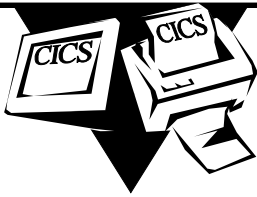
```

Compare String	Oper	Len	Line	Col	Boundary
START: <u>PAYROLL_START</u>	EQ	13	01	001	L P-Page/L-Line
STOP: <u>PAYROLL_END</u>	EQ	12	01	001	L P-Page/L-Line

Optional SEGMENT Overrides

CICS Printer ID: DEFAULT  
User name: DEFAULT  
Number of Copies: 001  
Header/Trailer: N ( Y or N )  
Disposition: D ( P,D,H or L )  
Jes/Power Disp: D (K or'D )  
Form ID: \_\_\_\_\_  
Class:  
Days: 010

ENTER=Update      PF1=Help      PF3=End  
PF9=ToggleMode    PF12=Cancel



## Controlling the Printers

Print requests are printed using a logical printer profile which assigns attributes to the physical printer. A physical printer can have multiple logical printer profiles. This provides flexibility for your physical printers to not print all reports the same. Following is a sample printer profile.

```

SPOM33                CICS/SPOOLER Printer Profile Update
                       MACKINNEY SYSTEMS

Profile =====> T01B
Description => T01B_LANDSCAPE      Optional description for this profile
Width =====> 132              Maximum number of characters per line (80-255, 256)
Release =====> N              Release the printer from CICS after printing (Y-N)
Eject =====> E              Page eject (F-First, L-Last, N-None, B-Both
                               S-Special)
Ret. Cursor => Y              Printer honor return cursor command (Y-N)
Extra EOB NL=> N              Insert extra NL at end of each print buffer (Y-N)
Buffer Size => 2 K            Maximum buffer size sent to the printer (1, 2, 4)
CICS Termid => T01B          Target CICS terminal ID for this printer

PF1-Help  PF3-End  PF4-Cancel  CLEAR-Exit
  
```

The Printer Profile Translate Table is used to remove unprintable characters from the print data stream to prevent hardware errors. The printer profile translate table contains all 256 possible hexadecimal values. This allows for any hex value in the print data stream to be translated to another hex value. This feature keeps unwanted hex values from being sent to the printer.

The area immediately to the right of the translate table is the EBCDIC representation of the line's sixteen hexadecimal values.

```

SPOM53                CICS/SPOOLER Printer Translate Table
                       MACKINNEY SYSTEMS

Profile ==> T01B      Description ==> T01B LANDSCAPE
.0 .1 .2 .3 .4 .5 .6 .7 .8 .9 .A .B .C .D .E .F
0. 40 40 40 40 40 40 40 40 40 40 40 40 0C 0D 40 40
1. 40 40 40 40 40 15 40 40 40 19 40 40 40 40 40 40
2. 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40
3. 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40
4. 40 40 40 40 40 40 40 40 40 40 40 40 4A 4B 4C 4D 4E 4F
5. 50 40 40 40 40 40 40 40 40 40 40 40 5A 5B 5C 5D 5E 5F &
6. 60 61 40 40 40 40 40 40 40 40 40 40 6A 6B 6C 6D 6E 6F -/
7. 40 40 40 40 40 40 40 40 40 40 40 40 79 7A 7B 7C 7D 7E 7F
8. 40 81 82 83 84 85 86 87 88 89 40 40 40 40 40 40 abcdefghi
9. 40 91 92 93 94 95 96 97 98 99 40 40 40 40 40 40 jklmnopqr
A. 40 A1 A2 A3 A4 A5 A6 A7 A8 A9 40 40 40 40 40 40 ~stuvwxyz
B. 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40
C. C0 C1 C2 C3 C4 C5 C6 C7 C8 C9 40 40 40 40 40 40 {ABCDEFGHI
D. D0 D1 D2 D3 D4 D5 D6 D7 D8 D9 40 40 40 40 40 40 }JKLMNOPQR
E. E0 40 E2 E3 E4 E5 E6 E7 E8 E9 40 40 40 40 40 40 \ STUVWXYZ
F. F0 F1 F2 F3 F4 F5 F6 F7 F8 F9 40 40 40 40 40 40 0123456789

PF1-Help  PF3-End  PF4-Cancel  CLEAR-Exit
  
```

---

The Printer Profile Command Codes are sent to the printer before printing starts and after printing is completed. This feature is useful to change the characteristics of the printer, (i.e., changing the page orientation from landscape to portrait).

Two command code areas are available. The first is the Pre-print printer command codes (sent to the printer before printing starts) and the second is the Post-print command codes (sent to the printer after printing is complete).

Normally, several command codes are needed to make an escape sequence the printer will understand. For example, to change the orientation to landscape for an HP LaserJet II the escape sequence 1B266C314F is required as shown below.

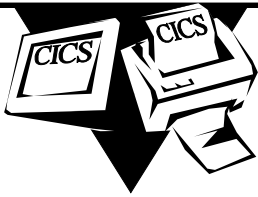
```
SP0M62          CICS/SPOOLER Printer Command Codes
                  MACKINNEY SYSTEMS

Profile ==> T01B   Description ==> T01B LANDSCAPE

Pre-print printer command codes
1B266C314F
.....
.....

Post-print printer command codes
.....
.....

PF1-Help  PF3-End  PF4-Cancel  CLEAR-Exit
```



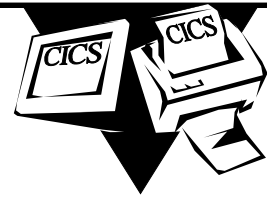
## Print Queue Directory

The CICS/SPOOLER Print Queue Directory is obtained using option '4' from the Main Menu. This screen shows the status of print requests for reports in the CICS/SPOOLER VSAM file or the VSE/POWER queue entries (VSE only) which have been designated to be printed by CICS/SPOOLER on a CICS printer. On this screen the print priority may be changed to allow for 'HOT' reports to be printed first.

```
SPOM47                      CICS/SPOOLER Print Queue Directory
Mask ==> _____          MACKINNEY SYSTEMS                      PAGE  1 OF  1

OPT PRINTER  JOBNAME  NO.  SFX QUEUE  STATUS  PRI  PROFILE
-   T01C    SPOP760E   1    VSAM  3-WAITING  Z   T01C
-   T01C    MSGMST    21170  LST  2-PRINTING  Z   T01C
-   T01C    DPMMST    21175  LST  1-RELEASED  Z   T01C
-   T01C    FAXMST     175    VSAM  1-RELEASED  Z   T01C

FUNCTIONS: S>Show detail  5>Delete
PF1-Help  PF2-Refresh  PF3-End  PF7-BWD  PF8-FWD  PF9-Top  PF12-Bottom
CLEAR-Exit
```



Those report entries on the previous screen showing VSAM in the QUEUE column are from the CICS/SPOOLER VSAM file while those with LST in the QUEUE column are in the VSE/POWER list queue and have been designated to be printed on a CICS printer by CICS/SPOOLER. This is controlled using the CICS/SPOOLER Automatic Print Control feature as shown on screen SPOM44 below. Reports designated in this way are printed directly without having to be transferred to the CICS/SPOOLER VSAM file.

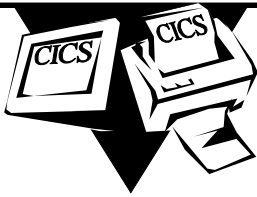
**Automatic  
Print  
from the  
VSE/POWER  
LST queue  
(VSE only)**

CICS/SPOOLER Automatic Print Control will scan the VSE/POWER LST queue for reports to be printed. Selection is based on class, destination, formid, and jobname.

```
SPOM44                CICS/SPOOLER Automatic Print Control                Page 1 of 1
                        MACKINNEY SYSTEMS

Seq  Profile  Class  Dest   Form  Job Name  Description
000010 P01        P      Dest   Form  Job Name  CLASS P TO P01
000020 P02        Q      Dest   Form  Job Name  CLASS Q TO P02
000030 P03        P      Dest   Form  Job Name  PAY*      PAYROLL TO P03
000040
000050
000060
000070
000080
000090
000100
000110
000120
000130
000140
000150
Locate Profile ==> _____

PF1-Help  PF2-Add  PF3-End  PF4-Cancel  PF5-Locate  PF7-Bwd
PF8-Fwd   PF9-Top  PF12-Bot CLEAR-Exit
```



## Displaying the VSE/POWER Queue

CICS/SPOOLER allows displaying the VSE/POWER queue. Selection screen SPOM22 allows limiting the queue entries that are displayed. You can select entries based on jobname (or prefix), class, user, formid, queue, status (disposition), number of pages, or job creation date.

```

SPOM22                                CICS/SPOOLER VSE/POWER Menu
                                       MACKINNEY SYSTEMS

Enter optional parameters below to limit power queue entries to be displayed

Jobname ==> _____ (PREFIX OR ENTIRE NAME)
Class =====> -
User =====> _____
Form-ID ==> _____
Queue =====> [ _____ (L-LST, R-RDR, P-PUN or X-XMT)
Status =====> - (D-Ready, H-Hold, K-Keep, L-Leave, *-Active)
Pages =====> - (EQ-Equal, GT-greater, LT-Less) number of pages
Date =====> - (EQ-Equal, GT-greater, LT-Less) report creation date
                                       in CCYYMMDD format or leave blank to use current date

PF1-Help  PF3-End  CLEAR-Exit
  
```

```

SPOM24                                CICS/SPOOLER VSE/POWER Display
QUEUE: LST                             MACKINNEY SYSTEMS                PAGE 001 OF 1
JOBNAME  JOBNO  USER DATA  PAGES  FORM  DATE  TIME  CPY  D  P  C  S  DEST
- XFER1   00294  ADMIN,VSE,DLM1    14     021296 0819  001  D  9  A  -  DLM1
- SPOJCSD 00304                113    021295 1020  001  D  8  A  -  DLM1
- SPOJCSD 00305                11     021296 1025  001  D  8  A  -  DLM1
- FICSAME 00359  ADMIN,MISC      6     021396 1244  001  D  8  A  -  SEC1
- FICDIFF 00364  ADMIN,MISC      6     021396 1248  001  D  8  A  -  SEC1
- LCTRUN  00407  MAINT,VSE,BAL1    3     021496 0723  001  D  3  A  -  BAL1
- LCTRUN  00409  MAINT,VSE,BAL1    5     021496 0737  001  D  3  A  -  BAL1
- LCTCAT  00410  MAINT,VSE,BAL1   15     021496 0742  001  D  3  A  -  BAL1
- CICSTES2 00457  ADMIN,CICS,DLM1   98     021496 1232  001  D  3  A  -  DLM1
- MACKUSS 00541  MAINT,VSE,DLM1  110     021496 1650  001  D  3  A  -
- IDOSEQ  00651                113    021596 1310  001  D  3  A  -  SEC1
- IDOSEQ  00657                119    021596 1314  001  D  3  A  -  SEC1
- FICVSAM 00663  ADMIN,MISC      6     021596 1330  001  D  3  A  -  SEC1
- SPOB766R 00676  MISC,VSE,DLM1    2     021596 1425  001  D  3  A  -  DLM1
- GSRMAINL 00680                36     021596 1451  001  D  3  A  -  SEC1
- LCT00   00692  DEVEL,LCT,BAL1   109    021596 1330  001  D  3  A  -  BAL1

FUNCTIONS: V=View P=Print Options S=Delete S=Show Detail
PF1-Help PF2-Refresh PF3-End PF6-PRTC PF7-Back PF8-Forw CLEAR-Exit
PF9-Top  PF12-Bottom
  
```

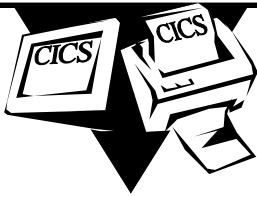
LST AND PUN queue entries allow copies, priority, class, status, and destination to be changed by over-keying the field with the new value. Entries can be viewed, printed, or deleted. Entries can either be spooled to the CICS/SPOOLER queue or printed directly on a CICS printer. When viewing a VSE/POWER queue entry, full function scrolling is available. 'Find' allows you to browse an entry to locate a text string. A 'V' by job 'LSTCAT' produces this screen.

```

QUEUE: LST          CICS/SPOOLER Viewing Facility   Line ==> 96
SEARCH ==>          SCROLL ==> SCREEN
Job Name: LSTCAT   No: 00410 sfx: 00 Lines: 000567 Status: READY Class: A
-----10---+---20---+---30---+---40---+---50---+---60---+---70---+---80
02/14/96 AT 07.42 MACKINNEY SYSTEMS      V S A M C A T A L O G L I S T
DATASET NAME      C ---ALLOCATED--- NUM SPLITS PCT UNUSED
                   VOLUME T TYP  PRI   SEC EXT  CI  CA FULL TRK-BLK
CICSTEST.ADHVIC.VS.INDEX
  SYSWK1 A B      73    73  1          20    58
CICSTEST.ADHPROC.VS.DATA
*-  SYSWK1 A B    1095   219 34 1218  29 100
CICSTEST.ADHPROC.VS.INDEX
  SYSWK1 A B      73    73  2          54    66
*+CICSTEST.ADLVST.VS.DATA DOSRES A B  2044   584  1  1    14   1752
CICSTEST.ADLVST.VS.INDEX
  DOSRES A B      73    73  1          2    70
CICSTEST.APPLIC.PARMS.DATA
*+  SYSWK1 A B    2044   292  1          14   1752
CICSTEST.APPLIC.PARMS.INDEX
  SYSWK1 A B      73    73  1          0    73
*-CICSTEST.CLRADHV.DATA  DOSRES A B      73    73  1  2    100
CICSTEST.CLRADHV.INDEX  DOSRES A B      73    73  1          1    72
PFkeys: 1=Help 3=End 5=Find 7=Backwd 8=Forwd 9=Top 10=Left 11=right 12=Bottom

```

This report (from our LISTCAT PLUS VSAM catalog list product) is in the VSE/POWER queue. You can shift left and right to view a line up to 255 characters. Mod 5 screens are supported so you can see a full 132 character line at once.



## **CICS/SPOOLER features**

1. Simpler programming - uses standard ASA print control characters.
2. Faster response time for printer oriented tasks.
3. Faster printing with less CICS overhead.
4. Automatic (optional) header and trailer pages with report name and user name. Banner page exit is available.
5. Multiple copies.
6. Simultaneous spool and print capability.
7. Single report may be spooled by series of tasks or a single task.
8. Send reports to any CICS printer or printers. Menu screens with on line HELP make it easy to enter commands for CICS/SPOOLER.
9. Reports spooled by batch jobs (VSE or MVS) can be printed on CICS printers. Printing may be started automatically or the report may be held until a print request is entered by the user.
10. Reports spooled by CICS tasks can be re-spooled to POWER or JES.
11. A routine to extract data from the POWER queue or send commands to POWER is included. It can be called from batch programs or invoked via JCL.
12. Display reports in the SPOOLER queue or VSE/POWER queue on a CRT.
13. Contains the ability to write reports directly to the SPOOLER queue from batch programs by a called subroutine. (Under MVS, Spooler files must be closed while this is done.)
14. Security system limits access to reports and printers to authorized terminals or operators.
15. Route lists allow reports to be sent to several printers automatically.
16. May stop printing, restart, or print only selected pages.
17. Support for 132 position CRTs.



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18. A form-id may be assigned to a printer to limit it to printing reports with the same form-id.
  19. A purge/reorganization program is included to automatically purge old reports.
  20. FCB emulation supports skips to channel 2-12.
  21. A SCAN function allows you to find all occurrences of a character string in a report.
  22. Report segmentation is available when loading batch reports to the CICS/SPOOLER queue. Reports can be segmented to load only part of a report or split into several segments to go to several users.
  23. Pool lists allow reports to be sent to the first available printer within a pool.
  24. A physical printer may have more than one printer profile to allow for printing to the same printer with different options. For example, ProfileA could be used to print in landscape mode and ProfileB could be used to print in Portrait mode.
  25. Automatic Print Control (VSE only) - automatic print selection from the VSE/power LST queue allows a report to be printed on a CICS printer without manual intervention.
  26. Supports line length up to 255 characters.
  27. The print queue for each printer may be displayed showing which report is printing and which reports are next to be printed. Priority of any report waiting to be printed may be changed to allow a "HOT" report to print next.
  28. The command codes assigned to CICS/SPOOLER functions may be customized to the user's needs.
  29. Split column viewing allows for the left portion of the report to remain on the screen while the right side is scrolled to the left or right.
  30. CICS/SPOOLER is year 2000 compliant.
  31. Autolog facility allows a message to be written to a CICS transient data queue or the system console whenever a user performs a CICS/SPOOLER function.