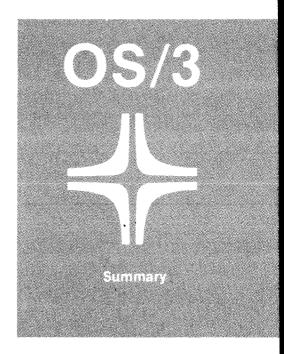
Interactive Services Commands and Facilities





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Preface

This summary helps you use the interactive commands and facilities available on the OS/3 operating system. Included are:

- All the commands you may enter from a workstation
- Editor commands
- Information on:
 - Entering information from a workstation
 - Command conventions used in this manual
 - Logon and ICAM terminal sign-on procedures
 - Initiating the various interactive facilities (such as job control dialog)
 - Function keys
 - Use of various types of terminals as workstations

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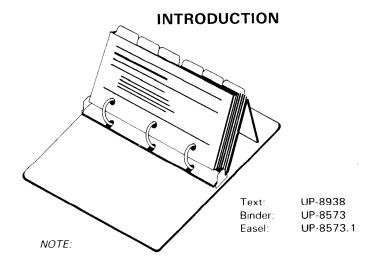
GENERAL INSTRUCTIONS

ENTERING INFORMATION ON A WORKSTATION Using the Correct Mode

Using more than One Line to Enter

a Command, Response, or Message COMMAND CONVENTIONS USED IN THIS MANUAL





To receive both the binder and easel, you must indicate both UP numbers to your Sperry Univac representative.





ENTERING INFORMATION ON A WORKSTATION

Using the Correct Mode

To enter commands and respond to messages at the System 80 workstation, you must be in SYSTEM mode. To get into SYSTEM mode, press the FUNCTION key, hold it down, and press the SYS MODE key.

To enter data and output to user-created and system programs (including facilities like EDT) you must be in WORKSTATION mode. To get into WORKSTATION mode, press the FUNCTION key, hold it down, and press the WS MODE key.

For instructions on how to use a terminal other than the System 80 workstation, refer to the discussion entitled "INTERACTIVE TERMINALS" in this manual.

Using More than One Line to Enter a Command, Response, or Message

If you need more than one line (80 characters) of a workstation screen to enter a command, response, or message, place a dash (-) as the last character on the line. The dash is a continuation character. It prompts the system to ask you, in a message, for further input. Use as many lines of the screen as you need; just place a dash at the end of every line except the last one.

Example:

- COPY MODULE=MYMODULE, FILENAME=MYFILE, VSN=RELØ71 TO MODULE=NEWMODUL, FILENAME=-
- IS93 ENTER CONTINUATION?
- ØG NEWFILE.VSN=NEWVOL.SIZE=10.CONTIG=NO
 - After keying in almost a full line, add a dash as the last character on the line. Press the XMIT key.
 - 2. The system asks you for a continuation.
 - 3 To answer, key in the system message number (0G), enter a space, and enter the rest of the command. Press the XMIT key.

COMMAND CONVENTIONS USED IN THIS MANUAL

If part of a command or parameter is underscored, it means that only the underscored portion has to be keyed in. When a command or parameter is not underscored, you must enter the entire command or parameter. In the following example, ER of the ERASE command is underscored. You must enter at least ER for the command to work, but you can enter ERA, ERAS, or ERASE.

ERASE

Where ER is the minimum keyin required to successfully use the ERASE command.

Parameters printed in lowercase letters designate undefined variables:

,VSN=volume serial number

Where volume serial number is the name of the volume you're working with.

Optional parameters are enclosed in brackets:

[,WRPASS=write password]



Alternate choices for a parameter are enclosed in braces:

Default values are values automatically generated by the system when you do not specify a value for a parameter. Default values are shown shaded in each command format:

Spaces are indicated by a delta (\triangle) symbol:

$$\underline{\texttt{COP}} \, \mathsf{Y} \triangle \underline{\texttt{MO}} \, \mathsf{DULE}$$

You must begin every workstation session with the LOGON command. To log on, press XMIT and fill in the logon menu displayed to you. You may also log on by entering SYSTEM mode and entering the LOGON command as follows:

userid 1–6 alphanumeric characters acct 1–8 alphanumeric characters password 1–6 alphanumeric characters

exec-pro 1-8 alphanumeric characters

To log off the workstation, enter the LOGOFF command:

LOGOFF

There are no parameters entered with this command.

STANDARD TERMINAL DIALOG FOR ICAM TERMINALS

If you are using a remote terminal as a workstation, you must connect the terminal to ICAM (Integrated Communications Access Method) before you log on. You connect the terminal to ICAM with the following command:

\$\$SON △xxxxyyyy

XXXX

Specifies the logical name of your terminal.

уууу

Specifies the logical name of the program you are signing on to use.

After entering the \$\$SON command, you will receive a message informing whether or not your sign-on attempt was successful.

After finishing your workstation session and logging off, you terminate your communications link with ICAM by issuing the following command:

\$\$SOFF

There are no parameters entered with this command.

RUNNING JOBS CHANGING JOB SCHEDULING

The following commands are used to run jobs from the workstation and change the scheduling for execution of those jobs.

FILE Command

The FILE command files jobs and job control procedures (jprocs) into the permanent job control stream library file (\$Y\$JCS) or into an alternate SAT library file.

RUN Command

The RUN command enables you to execute user jobs from the workstation. The command causes the job control stream associated with your job to be read, expanded, and scheduled for execution. The RUN command is used when an input device, either a data set label diskette or the input spool file (RDR), is required.

RV Command

```
RV\(\triangle jobname [(new-name)] \begin{bmatrix} alt-filename \\ (alt-filename, \begin{bmatrix} RES \\ RUN \\ vsn \end{bmatrix}, read-pass \\ \begin{bmatrix} \left[ RES \\ RUN \\ vsn \end{bmatrix}, read-pass \\ \left[ RES \\ RUN \\ vsn \end{bmatrix}, read-pass \\ \left[ RES \\ RUN \\ vsn \end{bmatrix}, read-pass \\ \left[ RES \\ RUN \\ vsn \end{bmatrix} \]
```

The RV command enables you to execute user jobs from the workstation. The command causes the job control stream associated with your job to be read, expanded, and scheduled for execution. The RV command is used when there is no input device needed.

```
SI (([did], label)) \( [jobname] [(new-name)]
  (RDR, label)
```

```
alt-filename
′alt-filename,(RES
/alt-filename,[[RES]],read-pass;\
```

The SI command enables you to run jobs previously saved in the expanded state. The SI command is used when embedded data in the job control stream is to be replaced.

```
Command

SCA jobname [(new-name)] | alt-filename | RES | RUN | Vsn | Vsn | Command | RES | RUN | Vsn | RES | RUN | Vsn | RES | RUN | RUN | RES | RUN | RUN | RES | RUN |
```

The SC command enables you to run jobs that you have previously saved in their expanded state. The SC command is used when the job control stream does not require an input device to replace embedded data.

```
OCL (([did], label)) \( [jobname-library-unit[(new-name)]] \( \bigcup \text{PRE} \\ \frac{\text{PIGH}}{\text{HIGH}} \)
   [,key-1=val-1,...,key-n=val-n]
```

The OCL command enables you to run an IBM System/3 job control stream in an OS/3 environment. The OCL command is used when the job control stream requires the use of an input device.

OV
$$\triangle$$
jobname-library-unit[(new-name)] $\left[\left\{ \begin{array}{l} PRE \\ HIGH \\ NOR \end{array} \right\} \right]$ [, key-1=val-1,...,key-n=val-n]

The OV command enables you to run an IBM System/3 job control stream in an OS/3 environment. The OV command is used when the job control stream does not require an input device.

EXECUTE Command

EXECUTE△program-name

The EXECUTE command enables you to run programs in an interactive job environment.

To use EXECUTE, you must first run the super-set job control stream that incorporates the program you want to use.

ULD Command

ULD\(\triangle\), filename, vsn, SIZE=n\(\triangle\) \[\begin{array}{c} PRINT \ NOPRINT \ SAVE \ \end{array} \]

The upline dump command enables a UTS 400 user to get a dump of the terminal's memory. A user can choose to print or save the dump file.

DLOAD Command

The DLOAD command allows a UTS 400 terminal user or a UTS 40/40D workstation user to downline load a program to terminal memory. Any program you load using the DLOAD command must reside in the \$Y\$LOD library.

BEGIN Command

Reinstituting Scheduling of All Jobs or All Jobs on a Particular Job Queue:

Reinstituting Scheduling of an Individual Job:

BEGINAJBQ 7/A

BEGIN△jobname

The BEGIN command reinstitutes scheduling of jobs deferred by the HOLD command. You may reschedule individual jobs initiated under your user-id, all of your jobs present in a particular queue, or all of your jobs (all those initiated under your user-id).

HOLD Command

Holding All Jobs or All Jobs on a Particular Job Queue:

$$\overline{\text{H}\tilde{\text{O}}\text{\Gamma}\text{D}\text{\nabla}\text{1BG}}\left[\overbrace{\begin{pmatrix} \mathbf{h} \\ \mathbf{h} \end{pmatrix}\right]$$

Holding an Individual Job:

<u>HO</u>LD△jobname

The HOLD command permits you to defer scheduling of jobs initiated under your user-id. You may hold individual jobs initiated under your user-id, all your jobs present in a particular queue, or all of your jobs (all those initiated under your user-id).

The CHANGE command permits you to change the scheduling queue in which your job is residing.

DELETE Command

Deleting All Jobs from One or All Job Queues:

Deleting A Specific Job:

 $\underline{\mathtt{DE}}\mathsf{LETE} \triangle \mathsf{jobname}$ [,LOG]

The DELETE command permits you to remove jobs from scheduling queues. Jobs deleted will not be executed. You may remove single jobs (initiated under your user-id), all your jobs on a particular queue, or all your jobs on all queues.

The DISPLAY JBQ command permits you to display, on the workstation screen, the contents (names of jobs) of each scheduling queue.

CONTROLLING JOBS

The following commands permit your workstation to act as a minisystem console to control those jobs initiated or running under your user-id. You may *only* control jobs initiated or running under your user-id.

CANCEL Command

 $\underline{CA}NCEL\triangle jobname \begin{bmatrix} {D \\ N \end{bmatrix}}$

The CANCEL command enables you to immediately halt processing of a job; the currently executing job step is not completed. You may specify whether or not you want a dump taken when you enter the CANCEL command.



CONNECT△job[,filename]

The CONNECT command is used to connect the WORKSTATION mode of your workstation to a job running on the system. You connect to a job at any time while it is running.

DISPLAY JS Command

DISPLAY JS[, jobname]

The DISPLAY JS command enables you to obtain information about jobs initiated under your user-id. You receive information about the status of your job, whether it is on a scheduling queue, or executing, and if not executing, why not.

FREE Command

FREE

The FREE command permits you to manually disconnect a workstation from a job. When this command is issued, the WORKSTATION mode of your workstation is disconnected from the program to which it was connected.

PAUSE Command

PAUSE△jobname

The PAUSE command permits you to suspend processing of a job. You may enter the PAUSE command at any time, and job processing is immediately suspended. Use the GO command to restart job processing.

GO Command

GO∆jobname

The GO command reactivates jobs suspended by the PAUSE command or by certain statements within the job control stream associated with the suspended job.

STOP Command

<u>ST</u>OP∆jobname

The STOP command enables you to terminate a job at the completion of the currently executing job step.

CONTROLLING SPOOLING

The following commands allow you to control the processes of input and output spooling for your job. For your convenience, the spool file directories and print spooling device numbers tables are reproduced here:

Directory	File Function
ALL	Makes all directories accessible to the command in which it is specified
LOG	Indicates that the file referenced is a job log file
PUNCH	Indicates that the file is to be output to either a card punch or a diskette
PRINT	Indicates that the file is to be output to a printer
RDR	Indicates that the file was originally from a card reader or diskette

No.	Device	Hardware Use
768	0768 Printer	Series 90 only
770	0770 Printer	Series 90 only
773	0773 Printer	Series 90 only
776	0776 Printer	Series 90 and System 80
778	0778 Printer	Series 90
789	0789 Printer	System 80 only
9300	9300 System running as a Series 90 peripheral device	Series 90 only

```
[,\underline{F}\underline{I}LE=filename][,\underline{F}\underline{O}RM=formname][,\underline{J}\underline{O}B=jobname][,\underline{S}\underline{T}EP=stepno]
```

The DISPLAY ACT command permits you to obtain information about spool files being created.

789 .9300,

```
[, FILE=filename][, FORM=formname][, JOB=jobname][, SIEP=stepno]
```

The DISPLAY SPL command permits you to obtain information about completed spool files.

HOLD SPL Command

```
HOLD△SPL,
                  [,ACCT=acctno][,CART=cartridge-name] [,DEV=/768
           PRINT
           БПИСН
                                                               789
```

```
[, FILE=filename][, FORM=formname][, JOB=jobname][, STEP=stepno]
```

The HOLD SPL command permits you to place files in a hold state, unavailable for processing.

```
BEGIN SPL Command
```

```
BEGINASPL, / ALL
                       LOG
                PRINT
                                                                                  773
                PUNCH
                                                                                  776
               RDR
                                                                                  778
                                                                                  789
                                                                                  (9300)
  [,\underline{F}\underline{I}LE=filename][,\underline{F}\underline{O}RM=formname][,\underline{J}\underline{O}B=jobname][,\underline{S}\underline{T}EP=stepno]
```

The BEGIN SPL command releases spool files held by a HOLD SPL command. Entering this command also loads an output writer to print the file as soon as a printer becomes available.

DELETE SPL Command

$$\begin{array}{c} \underline{\mathsf{DELETE}\triangle\mathsf{SPL}}, \left(\begin{array}{c} \mathsf{ALL} \\ \mathsf{LOG} \\ \underline{\mathsf{PR}} \, \mathsf{INT} \\ \underline{\mathsf{PUNCH}} \\ \mathsf{RDR} \end{array} \right) \left[\begin{array}{c} \mathsf{,\underline{ACCT}=acctno} \end{array}] \left[\begin{array}{c} \mathsf{,\underline{CART}=cartridge-name} \end{array}] \right] \left[\begin{array}{c} \mathsf{,DEV} = \\ \mathsf{770} \\ \mathsf{773} \\ \mathsf{776} \\ \mathsf{778} \\ \mathsf{789} \\ \mathsf{9300} \end{array} \right) \right]$$

[, $\underline{F}\underline{I}LE=filename$][, $\underline{F}\underline{O}RM=formname$][, $\underline{J}\underline{O}B=jobname$ [], $\underline{S}\underline{T}EP=stepno$]

The DELETE SPL command enables you to delete files from spool queues. You may delete completed files only - files being created may not be deleted.

BRKPT Command

```
\frac{BRKPT\triangle}{I}, PR, JOB=jobname[,ACCT=acctno][,CART=cartridge-name]}, DEV = \begin{bmatrix} 768 \\ 770 \\ 773 \\ 776 \\ 778 \\ 789 \\ 9300 \end{bmatrix}[,FILE=filename][,FORM=formname]
```

The BRKPT (breakpoint) command closes one or more spool files and makes them available to an output writer for printing or punching. The remainder of the file created after the BRKPT command is issued is placed on another file.

PR/PU Command

```
[PR] \triangle [function-code][, \underline{ACCT} = acctno][, \underline{CART} = cartridge-name][, \underline{FI}LE = filename]
   [, FORM=formname][, JOB=jobname]
```

The PR/PU command enables you to manually load an output writer to print (PR) or punch (PU) spooled files associated with your job.

RP Command

 $RP\triangle[function-code][,\underline{ACCT}=acctno][,\underline{CART}=cartridge-name][,\underline{FI}LE=filename]$ [,FORM=formname][,JOB=jobname]

The RP command enables you to manually load an output writer to print to an auxiliary printer. To use auxiliary printers, you must have generated your system to use auxiliary printers and directed your print files to an auxiliary printer prior to the time your system prints your print files. RP alone will not direct printing to an auxiliary printer.

The following commands permit you to perform utility functions, such as copying files, allocating files, and obtaining status information on various aspects of your OS/3 interactive processing system:

ALLOCATE Command

```
ALLOCATED (ST), FILENAME= {filename | filename | filena
```

(continued)

ALLOCATE Command (cont)

The ALLOCATE command permits you to allocate space for files interactively, without the need for job control statements. You may allocate the following types of files by using this command:

SAT, IRAM, ISAM, DAM, MIRAM, Sequential (SQ), Nonindexed (NI)

NOTE:

On systems running under consolidated data management only (like System 80), you may allocate only MIRAM and SAT files.

When allocating space on diskettes:

- If the diskette is recorded in data-set-label (DSL) mode, give the SIZE= and INC= parameters in blocks.
- If the diskette is recorded in format-label (FL) mode, give the SIZE= and INC= parameters in cylinders.

ASK Command

ASK∆[user-id,]'text'

The ASK command enables you to ask questions of other workstation users or the system operator. The command displays your question to the other user, accepts the reply, and returns the reply to you.

BRKPT LOG Command

BRKPT△**LQG**

The BRKPT LOG command enables you to close a workstation log file and make it available to the output writer for printing before you log off the workstation.

COMMENT Command

[,RDPASS=password][,WRPASS=password],VSN=volume△text

The COMMENT command enables you to put a comment in a library module header or replace an existing comment on a library module header. Comments may be up to 30 characters long.

The COPY command enables you to copy files and, in the process of copying, to alter the format of a file.

COPY Command

Copying MIRAM Data Files:

```
\[ \begin{align*} \int \text{DISK} \\ \text{DISKETTE} \end{align*} \text{$\text{TILENAME} & filename \\ 'filename' \\ "filename" \end{align*} \]
                                    \text{,VSN=volume } \left[ \text{,} \underline{\text{CONTIG=}} \text{ } \text{XES} \right] \left[ \text{,INC=} \text{n} \right] \left[ \text{,} \underline{\text{KEYNO=}} \text{n} \right] \left[ \text{,} \underline{\text{KEYI=}} \text{n:m} \right] \left[ \text{,} \underline{\text{CHG}} \right] \left[ \text{,} \underline{\text{NDUP}} \right] \left[ \text{,} \underline{\text{CHG}} \right]
```

(continued)

Copying MIRAM Data Files (cont):

The COPY command enables you to copy files and, in the process of copying, to alter the format of a file.

COPY Command

△[NUMBER][,HEX][,WAIT]

Copying Spool Files:

The COPY command enables you to copy files and, in the process of copying, to alter the format of a file.

COPY Command

Copying Tape Files:

```
<u>COPY/</u>

[FILENAME = {filename | filename | 
                                        [, INIT= YES] [, EXTEND= YES]
```

(continued)

COPY Command (cont):

Copying Tape Files (cont):

The COPY command enables you to copy files and, in the process of copying, to alter the format of a file.

Copying Unit Record Files:

$$\underbrace{ \begin{array}{c} \underline{\texttt{COPY}} \triangle \underline{\texttt{DEV}} \texttt{ICE} = \left\{ \text{did} \\ \underline{\texttt{DISKETTE}} \\ \texttt{RDR} \end{array} \right\}, \underbrace{ \begin{array}{c} \underline{\texttt{FIL}} \texttt{ENAME} = \left\{ \text{filename} \\ \texttt{'filename'} \\ \texttt{''filename''} \right\}, \texttt{VSN=volume} \triangle \texttt{TO} \triangle \texttt{DEVICE} = \left\{ \text{did} \\ \underline{\texttt{DISKETTE}} \\ \underline{\texttt{PR}} \texttt{INT} \\ \underline{\texttt{PU}} \texttt{NCH} \end{array} \right\} }$$

The COPY command enables you to copy files and, in the process of copying, to alter the format of a file.

DEFKEY Command

The DEFKEY command lets you assign any interactive command to a function key or the MESSAGE WAITING key.

DEFKEY (delete) Command

To free a function key or the MESSAGE WAITING key from a command assignment, you use the delete form of the DEFKEY command. The delete DEFKEY command is exactly like the DEFKEY command, minus the command string.

DEFKEY DISPLAY Command

DEFKEYADISPLAY

The DEFKEY DISPLAY command displays your function key and MESSAGE WAITING key assignments.

DISPLAY LOG Command

DISPLAYALOG

The DISPLAY LOG command gives you a 1-line report on the status of your workstation log file. The display shows the number of workstation lines used since you logged on.

EDT Command

EDT△[initial command]

The EDT command permits you to initialize the general editor.

ENTER Command

To Run a Command Stream from a Library File:

[,RDPASS=password],VSN=volume

The ENTER command permits you to enter a series of workstation commands as a batch processing job. Sessions may be entered from a card reader, tape, diskette, spooled file, or library file. Output from the job is always directed to the printer. You may enter any workstation command except those directly affecting the workstation device, such as SCREEN.

To Run a Command Stream from a Spooled File:

The ENTER command permits you to enter a series of workstation commands as a batch processing job. Sessions may be entered from a card reader, tape, diskette, spooled file, or library file. Output from the job is always directed to the printer. You may enter any workstation command except those directly affecting the workstation device, such as

The ENTER command permits you to enter a series of workstation commands as a batch processing job. Sessions may be entered from a card reader, tape, diskette, spooled file, or library file. Output from the job is always directed to the printer. You may enter any workstation command except those directly affecting the workstation device, such as SCREEN.

The ENTER command permits you to enter a series of workstation commands as a batch processing job. Sessions may be entered from a card reader, tape, diskette, spooled file, or library file. Output from the job is always directed to the printer. You may enter any workstation command except those directly affecting the workstation device, such as SCREEN.

ENTER Command

To Run a Command Stream from a Card Reader:

The ENTER command permits you to enter a series of workstation commands as a batch processing job. Sessions may be entered from a card reader, tape, diskette, spooled file, or library file. Output from the job is always directed to the printer. You may enter any workstation command except those directly affecting the workstation device, such as SCREEN.

ERASE Command

Erasing a Library Module:

[, WRPASS=password], VSN=volume

ERASE Command

Erasing Library and MIRAM Data Files:

```
ERASEAFILENAME=(filename )[, WRPASS=password], VSN=volume
```

The ERASE command permits you to delete library and data files, as well as library modules. Before executing takes place, the ERASE command double-checks with you to make certain you want to erase a file. This guards against inadvertent erasures.

The FSTATUS command permits you to interactively obtain information about files and their contents. You may reference only library file modules.

The HELP command permits you to obtain information about how to use various workstation commands and their parameters and how to respond to error messages from the system. Entering HELP and a command message number or keyword parameter produces a display explaining the command, message, or parameter. You may not enter an abbreviated form of the command or parameter.

MENU Command

MENUΔ [[menu-name] [, {filename, vsn }]]]

The MENU command displays either a standard system menu or a user-created menu.



Printing a Library Module:

Printing a MIRAM Data File:

Printing a Tape File:

```
[,BKNO={YES}]∆[DIRECT][,NUMBER][,HEX][,WAIT]
```

Printing a Unit Record File:

$$\frac{PRINT\triangle DEVICE}{\begin{cases} did \\ \underline{DISKETTE} \\ RDR \end{cases}, \underline{FIL}ENAME = \begin{cases} filename \\ 'filename' \\ ''filename'' \end{cases}, VSN=volume \triangle [DIRECT][, NUMBER]$$

$$[,HEX][,WAIT]$$

```
 \underbrace{PRINT\triangle[\underline{JOB}=jobname]}_{N} \underbrace{\begin{bmatrix} \underline{HOLD}= \\ N \\ Y \end{bmatrix}}_{Y} \underbrace{\begin{bmatrix} \underline{FILENAME}= \\ filename \\ "filename" \end{bmatrix}}_{T} \underbrace{\begin{bmatrix} \underline{ACCT}=acct 
                                                                                                                 , QUEUE= \( \log \) \(
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PUNCH }
                                                                                                                                     [,WAIT]
```

PUNCH Command

Punching a Library Module:

PUNCH Command

Punching a MIRAM Data File:

```
PUNCHAFILENAME = { filename | fil
                                                          \begin{bmatrix} , \underline{\texttt{COP}} \, \texttt{IES} = \left\{ \begin{matrix} n \\ 1 \end{matrix} \right\} \end{bmatrix} \begin{bmatrix} , \, \mathsf{DEVICE} = \left\{ \begin{matrix} d \, \text{id} \\ \underline{\texttt{DISKETTE}} \\ \\ \textbf{DISK} \end{matrix} \right\} \triangle [\, \texttt{DIRECT} \,] \, [\, , \, \texttt{WAIT} \,]
```

Punching a Spool File:

The PUNCH command allows you to make a punched-card copy of a library file or module, a spool file, a MIRAM file, a tape file, or a unit record file. PUNCH can be run as a background job to allow you to use the workstation for other functions while the file is being punched.

Punching a Tape File:

```
PUNCH/ FILENAME= filename | filename | filename | TAPE | filename 
                                                                 [,BKNO={YES}]△[DIRECT][,WAIT]
```

The PUNCH command allows you to make a punched-card copy of a library file or module, a spool file, a MIRAM file, a tape file, or a unit record file. PUNCH can be run as a background job to allow you to use the workstation for other functions while the file is being punched.

Punching a Unit Record File:

```
 \frac{\text{PUNCH}\triangle \text{DEVICE}}{\text{QISKETTE}} \left\{ \begin{array}{l} \text{did} \\ \text{DISKETTE} \\ \text{RDR} \end{array} \right\}, \underline{\text{FILENAME}} = \left\{ \begin{array}{l} \text{filename} \\ \text{'filename'} \\ \text{'filename'} \end{array} \right\}, \text{VSN=volume} \triangle [\text{DIRECT}][\text{,WAIT}]
```

The PUNCH command allows you to make a punched-card copy of a library file or module, a spool file, a MIRAM file, a tape file, or a unit record file. PUNCH can be run as a background job to allow you to use the workstation for other functions while the file is being punched.

REBUILD Command

REBUILD

The REBUILD command restores messages requiring a response or a GO command to your workstation screen.

RECALL Command

RECALL [LAST Ann hh:mm:ss-hh:mm:ss]

The RECALL command lets you display all or part of your workstation log file at your workstation screen. You can view selected portions of the log file by specifying a particular time span. Or, you can indicate the number of messages, prior to the most current one, that you'd like to see.

```
RECOVER△MODULE=modulename [, TYPE={module-type}], FILENAME={filename | filename | filename | filename | filename |
```

[,RDPASS=password][,WRPASS=password],VSN=volume

The RECOVER command allows you to recover deleted source, procedure, or macro modules in the SAT library. You may also use the command to rename modules not deleted.

REMARK Command

REMARK△text

The REMARK command allows you to enter a comment in a stream of commands. It is used principally in card decks for batch processing, but may be used in any situation where a comment needs to be inserted in a command stream.

RESUME Command

RESUME

The RESUME command enables you to resume execution of a subsystem, such as the general editor or BASIC, that was suspended when the workstation entered SYSTEM mode.

```
[XMIT=(₩AR )][XFER=(VAR
      ROLL
                                                                 4800
                                                                 2400
                                                                 12ØØ
      WRAP
     NOROL
                                                                 600
                           LINES=(24)][,KEYBOARD=(STANDARD)][,LOG=(ALL
, SPACEBAR= ( DESTRUCT
           NONDESTRUCT
                                                    KATAKANA
                          CENTRAL ) ] [, ( NONBURST
                                                    , ( CONTINUOUS )
, INTENSITY=(NORMAL
                          WKSTN
                                       BURST
                                                      PAGE
```

The SCREEN command enables you to alter certain characteristics of the workstation or terminal you're using. You may use the SCREEN command to change different characteristics on different terminals acting as workstations; consult the interactive services commands and facilities user guide/programmer reference, UP-8845 (current version) for further information.

STATUS Command



The STATUS command enables you to obtain information about various aspects of your system, including usage of terminals and workstations, numbers of jobs running on the system, system main storage resources in use and available, jobs running under your user-id, and which interactive commands and facilities are executing under your user-id. STATUS can also give you a listing of the disk, tape, and diskette volumes currently mounted on your system.

TELL Command

The TELL command enables you to send messages that do not require a response to the system operator or other workstation users.

VTOC Command

 $\underline{\texttt{V}\underline{\texttt{T}}\texttt{OC}} \triangle \texttt{['file-prefix',]} \texttt{VSN=volume} \triangle \texttt{[FREE]}$

The VTOC command enables you to produce a listing of the files present on a disk or diskette volume. You may list all the files on a volume, or only those whose file names begin with a prefix you specify. You may also obtain a listing of each free extent available and its size.

INTERACTIVE FACILITIES

INTERACTIVE DATA UTILITIES

To initialize the interactive data utilities, enter the following command:

Permits the concurrent use of data utilities. (new-name)

Specifies, in hexadecimal notation, the minimum main storage needed to run your data utilities MEM=nnnnn

job. Default is 8000₁₆ (32,767₁₀).

Specifies a 1- to 4-character alphanumeric account number. ACT=act-no

Specifies that data utilities run in the debugging mode, used to provide documentation for reporting a software user report (SUR).

JOB CONTROL DIALOG

To initialize the job control dialog, enter the following command:

RV△JC\$BLD

SCREEN FORMAT GENERATOR

Use the following command to initialize the screen format generator:

RV\(\triangle SFGEN

USING SCREEN FORMATS IN YOUR PROGRAM

Use the following job control statement to include formatted screen displays in your programs:

```
//[symbol]USE SFS[, {format-file-lfd-1/format-file-lfd-2}][, initial-screen][, {nnn}]

[, screen-format-1=alias-1..., screen-format-12=alias-12]

{format-file-id} Specifies the LFD name(s) of the screen format file.

**STATE | Specifies the first format name to be used in behalf of the user program.
```

Innn 1 Specifies the number of formats to reside in main storage for use with a given file.

```
[,screen-format-1=alias-1...[,screen-format-12=alias-12]]
```

Specifies that a name other than the real name of the format is to be used. Maximum of 12 aliases permitted. More than 12 causes rejection of the job control stream.

MENU GENERATOR

Use the following command to initialize the menu generator:

MENUGEN

USING MENUS IN YOUR PROGRAM

Use the following job control statement to include menus in your program:

```
//[symbol]USE MENU [, menu-file-lfd-1/menu-file-lfd-2] [,initial-menu]

$\frac{\$\frac{1}{\$\frac{1}{\$\frac{1}{\$\frac{1}{\$\frac{1}{\$\frac{1}{\$\frac{1}{\$\frac{1}{\$\frac{1}{\$\frac{1}{\$\frac{1}{\$\frac{1}{\$\frac{1}{\$\frac{1}{\$\frac{1}{\$\frac{1}{\$\frac{1}{\$\frac{1}{\$\frac{1}{\$\frac{1}{\$\frac{1}{\$\frac{1}{\$\frac{1}{\$\frac{1}{\$\frac{1}{\$\frac{1}{\$\frac{1}{\$\frac{1}{\$\frac{1}{\$\frac{1}{\$\frac{1}{\$\frac{1}{\$\frac{1}{\$\frac{1}{\$\frac{1}{\$\frac{1}{\$\frac{1}{\$\frac{1}{\$\frac{1}{\$\frac{1}{\$\frac{1}{\$\frac{1}{\$\frac{1}{\$\frac{1}{\$\frac{1}{\$\frac{1}{\$\frac{1}{\$\frac{1}{\$\frac{1}{\$\frac{1}{\$\frac{1}{\$\frac{1}{\$\frac{1}{\$\frac{1}{\$\frac{1}{\$\frac{1}{\$\frac{1}{\$\frac{1}{\$\frac{1}{\$\frac{1}{\$\frac{1}{\$\frac{1}{\$\frac{1}{\$\frac{1}{\$\frac{1}{\$\frac{1}{\$\frac{1}{\$\frac{1}{\$\frac{1}{\$\frac{1}{\$\frac{1}{\$\frac{1}{\$\frac{1}{\$\frac{1}{\$\frac{1}{\$\frac{1}{\$\frac{1}{\$\frac{1}{\$\frac{1}{\$\frac{1}{\$\frac{1}{\$\frac{1}{\$\frac{1}{\$\frac{1}{\$\frac{1}{\$\frac{1}{\$\frac{1}{\$\frac{1}{\$\frac{1}{\$\frac{1}{\$\frac{1}{\$\frac{1}{\$\frac{1}{\$\frac{1}{\$\frac{1}{\$\frac{1}{\$\frac{1}{\$\frac{1}{\$\frac{1}{\$\frac{1}{\$\frac{1}{\$\frac{1}{\$\frac{1}{\$\frac{1}{\$\frac{1}{\}\}\}}}}{\frac{1}{\$\frac{1}{\$\frac{1}{\$\frac{1}{\$\frac{1}{\}\}}}}}}}}}}}}}}}}}}}}}}}}
              [, \nnn \] [, menu-1=alias-1..., menu-12=alias-12]
```

```
menu-file-lfd-1/menu-file-lfd-2\
$Y$FMT/menu-file-lfd-2
menu-file-lfd-1/$Y$FMT
menu-file-lfd-1
SYSFMT
initial-menu
```

Specifies the lfd name or names

for up to two files that will be searched for the correct menu.

Specifies the name of the first or only menu to be used by a program.

(nnn)

Specifies the number of menus to reside in main storage for use with a given file.

[,menu-1=alias-1...[,menu-12=alias-12]

Specifies that a name other than the real name of the menu is to be used. Maximum of 12 aliases permitted. More than 12 causes rejection of the job control stream.

INTERACTIVE DUMP/RESTORE HARDWARE UTILITY

The dump/restore hardware utility lets you interactively initiate and control the DMPRST routine from your workstation. The DMPRST routine creates backup copies of your program and data libraries on disk, tape, or diskette.

To initialize the interactive dump/restore hardware utility, enter the following command:

ΗU

BASIC

BASIC is an interactive programming language you can use from your workstation. To initialize BASIC, enter the following command:

BASIC

ESCORT

ESCORT is an interactive programming language that uses English statements to create a program. The ESCORT language allows you to generate reports and perform inquiry and update routines through the use of simple, sentence-like programs, entered through your workstation. To use ESCORT, log on and enter the following command:

ESCORT

GENERAL EDITOR COMMANDS

The following is a listing of the commands used by the SPERRY UNIVAC Operating System/3 General Editor.

Update

SPERRY UNIVAC 0S/3 INTERACTIVE SERVICES

UP-8938 Rev. 2

	EDT Commands (cont)	
DELETE	<pre>@D [line-range]['search-string'[*n]]</pre>	Erases specified lines and their line numbers from the current work-space file
<u>F I N</u> D	@FIN 'search-string'[*n]	Locates the first occurrence of a string in the work-space file and assigns its corresponding line number to the variable ? and the column numbers of the first and last columns it occupies to [and] respectively

```
EDT Commands (cont)
```

ESTATUS

Creates in the work-space file a list of all modules contained in a specified program library

<u>I</u> NSERT	@I 'change-string'[*n]	Inserts a specified string into lines in the current work-space file
LIST	@L [line-range]['search-string'[*n]]∆[<u>IM</u> MEDIATE]	Prints specified lines from the current work-space file on the printer
MOVE	<pre>@M [line-range]['search-string'[*n]] TO destination</pre>	Transfers specified lines to new line locations in the work-space file and deletes the original lines and line numbers
NUMBER	@NU 'sequence-string'[*n][BY increment]	Inserts sequence numbers into input lines

	EDT Commands (cont)	
PRINT	@P [line-range][search-string[*n]]	Displays specified lines from the current work-space file on the workstation screen
РПИСН	@PU [line-range]['search-string'[*n]]△[<u>IM</u> MEDIATE]	Reproduces specified lines from the current work-space file on cards

```
EDT Commands (cont)
```

READ

```
@R△MODULE=module-name, FILENAME= { filename | filename
```

[, TRUNC= YES] [, RDPASS=password], VSN=volume

Reads a SAT or MIRAM library module from disk or format label diskette

```
EDT Commands (cont)
```

```
READ
                                                                                [,RDPASS=password]
                      , VSN=volume [, KEYNO={n }] [, DEVICE={ did DISK DISKETTE }
                       [,BFSZ=n] [,TRUNC={YES NO
                       \Delta \begin{bmatrix} \underline{K}EY = start - col - no : end - col - no \\ \underline{K}\underline{K}EY = start - col - no : end - col - no \\ \underline{S}\underline{H}\underline{O}\underline{W}\underline{\Delta}first - col - no : last - col - no \end{bmatrix}
```

Reads a MIRAM data file from disk or format label diskette

(continued)

JP-8938 ?ev. 2

```
EDT Commands (cont)
```

```
 @R\triangle[\underline{JOB}=jobname] \  \  \lceil \underline{HOLD}= \begin{cases} LOG \\ \overline{NO} \\ \overline{YES} \end{cases} 
READ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Reads a file from
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            the spool file
                                                                                                                    [,SKIP= NO] [,TRUNC= YES] \[ \langle \
```

EDT Commands (cont)

, VSN=volume , DEVICE= { did TAPE } [BKNO= {YES}] [,TRUNC= {YES}

\[\frac{KEY=start-col-no:end-col-no}{KKEY=start-col-no:end-col-no} \]

EDT Commands (cont)		
READ	aR	Reads the same module or file last accessed through a previous @READ or @WRITI command
READ	@RΔ;Δ (KEY=start-col-no:end-col-no KKEY=start-col-no:end-col-no SHOWΔfirst-col-no:last-col-no (valid EDT command)	Reads the same module or file last accessed through a previous @READ or @WRITE command but read now with a previous KEY, KKEY, or SHOW parameter or any valid EDT command specified

REMOVE

UPDATE

EDT Commands (cont)

```
WRITE
                                                                                                           Writes a SAT or MIRAM
                                                                                                           library module to disk
                                                                                                           or format label diskette
                DISK
                , \text{VSN=volume} \left[, \underline{\underline{\text{CONTIG}}} = \left\{ \underline{\underline{\text{NO}}} \right\} \right] \left[, \text{INC} = \left\{ \underline{\underline{\text{NO}}} \right\} \right] \left[, \underline{\underline{\text{RCS}}} \underline{Z} = \underline{n} \right]
               [,SIZE=n] [,SAT={NO
YES}]
```

```
SPERRY UNIVAC 0S/3 INTERACTIVE SERVICES
```

```
@W△FILENAME=(filename
WRITE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Writes a MIRAM data
                                                                                                                                                                            'filename'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      file to disk or format
                                                                                                                                                                         "filename"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      label diskette
                                                                          [,WRPASS=password],VSN=volume
                                                                              T, CONTIG= NO TINC= NO TINCE NO TINIT= NO TINI
                                                                      RCSZ=n, SCSZ=n
                                                                             [, DEVICE= { did DISK DISKETTE } ] [, SIZE=n] [, EXTEND= { YES } ] [, BFSZ=n]
                                                                       (continued)
```

EDT Commands (cont)

@W△[JOB=jobname] $\left[\frac{HOLD=\left\{\frac{NO}{YES}\right\}\right]$

Writes a file to the the spool file

WRITE

```
WRITE
          @W△FILENAME= (filename
                                     ,VSN=volume
                                                                   Writes a
                                                                           unit record
                         'filename'
                                                                   file to a printer,
                         "filename"
                                                                   punch, or diskette
                            ,DEVICE= (did
                    DISKETTE
                   PRINT
                   PUNCH
WRITE
          @W△FILENAME=(filename
                                     [,WRPASS=password]
                                                                   Writes a file to tape
                         'filename'
"filename"
          ,VSN=volume,DEVICE={did }[,BFSZ=n][,INIT={YES}][,EXTEND={YES}]
TAPE
NO
                               <u>TAPE</u>
                        RCFM= FIXUNB [,RCSZ=n]
                                  VARBLK
                                  VARUNB
                                                                                  (continued)
                                 UNDEF
```

EDT Commands (cont)

MC 0S/	SERVICE
SPERRY UNIV	INTERACTIVE

	EDT Commands	(cont)
WRITE	a₩	Writes to the same module or file last accessed through a previous @READ or @WRITE command
WRITE	@WΔ;∆valid EDT command	Writes to the same module or file last accessed through a previous @READ or @WRITE command but written now with any valid EDT command specified

EDT Variable Commands		
ASSIGN	@AS\(\text{Gn=} \bigg(\text{'string'[*n]} \\ n(\text{x:y}) \\ n[\text{tm}] \\ Gm \\ LEN(n) \end{array}	Assigns values to EDT variables
DISPLAY	(@DI△ ('string'[*n]) n(x:y) n[±m] Gm LEN(n)	Displays a specified expression or the value of a specified expression from the work-space file on the workstation screen
IF	<pre>@IF.condition.command or</pre>	Permits an EDT command or EDT procedure file command to be executed based on some condition
	@IF expression relation expression command	based on some condition

	General Editor Procedure File Co	ommands
DO	@DO proc-number $ \begin{bmatrix} \left\{ \begin{array}{l} \mathtt{PRINT} \\ \mathtt{NOPRINT} \\ \mathtt{REVERT} \end{array} \right\} \end{bmatrix} $	Executes a procedure file
END	@E	Terminates procedure file definition
<u> </u>	@G△{line } {label}	Permits branching within a procedure file
INPUT	@INP∆file-parameters [{PRINT \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Loads and executes a procedure file

СНЕСК	@CHEA OFF	Determines whether processed lines are to be displayed on the workstation screen
COBOL	асов	Activates the COBOL editor
DROP	adr	Deletes all lines in the entire EDT work-space file
EFP	@EFP	Activates the error file processor

FORMAT	aFORMAT parameter-string (for RPGEDT) aFORMAT (for COBEDT)	Used only in conjunction with either RPGEDT or COBEDT. For information on the @FORMA directive, see the current version of the RPG II editor user guide/programmer reference, UP-8803 the COBOL editor user guide/programmer reference, UP-9106.
HALT	ан	Terminates the EDT session
RPG	arpg	Activates the RPG II editor

```
General Editor Directives (cont)
```

SET @S△ [CHAR=tab-character, TABS= [columns]] Defines various parameters to EDT that collectively make up your EDT environment [,ATSIGN=command-trigger][,COLON=range-separator] [, WIDTH=device-size][, CLEAR] [, STRIP= ON OFF] [,SCRDSPLY={TRUNCATE}] |,ROLL={15(if SCRDSPLY=TRUNCATE)} | (if SCRDSPLY=FOLD) | 1-15

General Editor Directives (cont)

@SYA[workstation-command] SYSTEM

Permits workstation commands to be issued during an EDT session or temporarily returns you to system mode

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		General Editor Screen Commands	
<u>вг</u> оск	@BL		Displays a free-form screen that allows you to switch to block mode for entering multiple commands or data
HELP	(wHE∆[error message	code]	Displays help screens for any EDT error messages
<u>PA</u> RAMS	(υ PA		Displays a screen showing the parameters on the @SET directive (those that make up your EDT environment)

		General	Editor	Screen	Commands	(cont)	
PROMPT	@PROM∆[EDT	command]					Displays the EDT command menu screen or help screens for any EDT command (meaning EDT commands, modifiers, directives, procedure file commands, variables, and screen commands)
RESTORE	@RES				•		Returns you to the point in your EDT session where you originally entered a screen command
ROLL	@RO				-		Displays free-form screens showing the EDT work-space file where you can update lines or simply view them

EFP Commands

EFP

To correct and display COBOL and RPG II errors and FORTRAN IV errors for one source module at a time, use:

@EF[X]△[program-unit-name]△ [error-range]∆['search-string']

To correct and display FORTRAN IV errors for compilations that process multiple source modules, use:

@EF△SOURCE△source-module-name, source-file-name, vsn

Displays errors in your error file along with the source lines that contain those errors. Note that EFP is both an EDT directive and an EFP command.

EFP Commands (cont)

END

SUMMARY

(wEF△END Terminates the error file processor

@EF△SUM Displays an error file summary for the module you're correcting

RPG II EDITOR COBOL EDITOR

The RPG II and COBOL editors are actually subeditors of EDT. Therefore, you must first activate the General Editor before you can use a language editor. Once in a language editor session you can use any of the EDT commands.

RPG II EDITOR

To activate the RPG II editor, key in the following command:

EDT△@RPG

The following are commands you use in conjunction with the RPG II editor:

Command	Format	Explanation
FORMAT	<pre>@FO specification-type @FO specification-type,format-type @FO ,format-type @FO ,format-type,CMD</pre>	Allows you to change the display format type and/or switch the RPG II editor from the update mode to the create mode.
HALT	@ Н	Terminates the RPG II (and EDT) session.

COBOL EDITOR

To activate the COBOL editor, key in the following command:

EDT (a) COBOL

The following are commands you use in conjunction with the COBOL editor:

Command	Format	Explanation
<u>FO</u> RMAT	@FO parameters	Changes the display format type.
HALT	@Н	Terminates the COBOL editor (and EDT) session.

DDP COMMANDS

The following is a list of special commands to perform DDP functions.

Command Explanation **DDP Commands** DDPACREATEAFILE=[[host-id **):**:]file-id The CREATE command: (local-host-id) Establishes a file on a receiving host 「ABLOCK_SIZE=Innnnnnnnnnnnnnn | TADENSITY=/200 Allocates space for the file Catalogs the file in your 556 online system catalog 800 Records the file in the 1600 volume table of contents 6250 (VTOC) of the volume at (host-SYSGEN-option)_ the remote host on which the file is created

```
DDP Commands (cont)
```

NOTE:

The default for INCREMENT SIZE and INITIAL SIZE is three cylinders. If more or less than three cylinders is needed, the size must be entered in number of blocks (nnnnnnnnn).

```
DDP Commands (cont)
```

```
\[ \text{\text{ARECORD_SIZE=} nnnnn} \] \[ \text{\text{\text{AREGISTER=} \text{VTOC} \text{CATALOG}} \]
```

```
DDP\( COPY\( \) FROM= \[ \{ \originating-host-id \} :: \] originating-file-id \| \text{local-host-id} \}
```

△T0= { destination-host-id }:: destination-file-id local-host-id

SYMBOLIC
RELOCATABLE
ABSOLUTE
MACRO
PROC
COMPILED JOB
SCREEN_FÖRMAT

you to copy a file or module from one system to another. You may copy a file or module from one remote system to another, from your local system to a remote system, or vice versa. You may also use the COPY command to copy a file within your local system.

The COPY command permits

```
DDP Commands (cont)
                         Size, location [ADUPLICATES | NO DUPLICATES | CHANGE | NO CHANGE |
                                    MODE = DIRECT | APOSITION = EDF | SOF
                                   [∠TRANSLATE=(ASCII )
                                                                                                                                                                            EBCDIC
The PURGE command allows
```

The PURGE command allow you to physically remove a file, and all references to it, from a host system.

UP-89

DDP\(\triangle SUBMIT\(\triangle FILE = \left[\{ \text{originating-host-id} \} :: \right] file-id \\ \text{local-host-id} \\ \]

The SUBMIT command allows you

[SYMBOLIC | COMPILED JOB 「∆HOST={destination-host-id}]

TAOUTPUT= DISCARD \ \ \ ACOMMAND= I host-id local-host-id

DDP\(SUBMIT\(REQUEST = statement \int \text{HOST} = \int \text{host-id} local-host-id

The SUBMIT REQUEST command allows you to send a statement, such as an operator

system.

local-host-id DDP\(\triangle CANCEL\triangle JOB = \left[\left\{ \text{host-id} \right\}::] \) jobname

| DELIVER

to send a file of job control

streams to a host system for execution. You can also use it

to initiate a file of job

control streams already at the

host system or to bring a job

control stream to your local system for execution.

The CANCEL command allows

you to terminate a job

either executing or scheduled for execution on a host

DDP Commands (cont)

or interactive command, to a host system. The following statements (commands) cannot be used: DISPLAY, DELETE, BREAKPOINT, FILE, IN, SU, TU, PD.

```
DDP\(\text{STATUS}\) \( \begin{align*} \text{COMMAND=work-order-number} \\ \text{FILE=\begin{align*} \text{host-id} \\ \text{local-host-id} \\ \text{HOST=host-id} \\ \text{JOB= host-id} \\ \text{Local-host-id} \\ \text{USER=\begin{align*} \text{host-id} \\ \text{Local-host-id} \\ \end{align*}
```

The STATUS command enables you to obtain information about:

- Commands entered
- Host systems in your DDP system
- Jobs you have submitted
- Files in your DDP system
- Other users on your DDP system

DDP Commands (cont)

 ${\tt DDP} \triangle {\tt TALK} \triangle {\tt MESSAGE='string'}$

△USER= \[\langle \text{host-id} \text{::} \] \{ OPERATOR \text{Local-host-id} \} \[\langle \text{user-id} \]

The TALK command allows you to send a message to a remote operator or user.

INTERACTIVE TERMINALS

OS/3 interactive services can be accessed through four types of terminals: the workstation (UTS 20/20D or UTS 40/40D), the System 80 console workstation, the UNISCOPE 100 and 200, and the UTS 400. The following table shows the different procedures used to access interactive services through these different types of terminals:

NOTE:

You do not need to enter the \$\$SON command to log onto either a workstation or the System 80 console workstation. However, some system programs such as the Information Management System (IMS) require the use of ICAM to connect to workstations and terminals. In such cases, log on normally and then enter \$\$SON to sign onto IMS or other similar programs.

Procedure	Workstation	UNISCOPE Terminals	UTS 400	System 80 Console Workstation
\$\$SON	NO	YES	YES	NO
LOGON	YES	YES	YES	YES
SYSTEM mode	Press FUNCTION and SYS MODE keys.	Press MESSAGE WAITING key.	Press MSG WAIT key.	Press FUNCTION and SYS MODE keys.
WORKSTATION mode	Press FUNCTION and WS MODE keys.	WAITING key. Then	keys; then press	Press FUNCTION and WS MODE keys.
Function keys	Press FUNCTION and F1–F22 keys.	Press MESSAGE WAITING key. Then press F1–F4; for rest, press F, the pound symbol (#), then 5–22.	Press F1-F22 UPPER FUNCTION when required.	Press FUNCTION and F1–F22 keys.

Procedure	Workstation	UNISCOPE Terminals	UTS 400	System 80 Console Workstation
Function keys (cont.)		To simulate the MESSAGE WAITING key, enter system mode by pressing the MESSAGE WAITING key, then type MSG.		
Message waiting indicator	SYS MSG displayed on indicator line	MESSAGE WAITING light is lit and the audible alarm sounds.	MESSAGE WAITING light is lit and the audible alarm sounds.	SYS MSG displayed on indicator line
Save and restore SYS mode lines	YES	NO	NO	YES
LOGOFF	YES	YES	YES	YES
\$\$SOFF	NO	YES	YES	NO



FUNCTION KEY SUMMARY

This summary provides an overview of the function keys used by interactive services and the various interactive facilities.

Software Component	Key	Function
Interactive services	F15	Informs the system you have no more data to input from the workstation (end of file)
services	F17	Temporarily halts the workstation display. (See F19.)
	F19	Restarts workstation display after it has been temporarily stopped using F17 or when the screen is full of data
General editor	F1	Suppresses any printing options associated with a command. (Same as F18)
editor	F2	Terminates processing of a command
	F3	Displays a screen showing the parameters on the @SET directive, or those that make up your EDT environment. F3 is the same as issuing the PARAMS screen command.

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Software Component	Key	Function
General editor (cont)	F15	Recognized as EOF indicator. Halts an EDT session run in batch mode or produces an error message in interactive mode.
	F18	Suppresses printing option associated with a command. (Same as F1)
	F19	Restarts workstation display after it has been temporarily stopped using F17 or when the screen is full of data
Screen format services	F1	Returns the screen format generator to the HOME screen. Returning home deletes all work done up to that point.
aci vicea	F5	Causes the screen format generator to breakpoint the spool file to a printer. All records currently in the spooled printer output are directed to a printer. Records added to the spool file after the breakpoint are held until a subsequent breakpoint is requested or until the end of the job.
	F13	Displays a HELP screen appropriate to the step you're at when generating a screen format. (See F14.)

Software Component	Key	Function
Screen format	F14	Removes the HELP screen displayed by using F13; returns the screen format generator to the point it was at before display of the HELP screen.
services (cont)	F15	Indicates end of input data
	F16	Indicates input data cannot be entered properly
	F20	Restores the screen to its original contents for the current pass if it has inadvertently been destroyed.
BASIC	F1	Pauses or terminates execution of a BASIC program. When no I/O operation is in progress, the system displays the message:
		EXECUTION PAUSED AT LINE xxxx CONTINUE (Y,N)?
		Key in Y to continue (resume) execution. Key in N to terminate the program.
		If a BASIC program is requesting output, you must press XMIT after pressing F1 to display the above message.

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Software Component	Key	Function			
BASIC (cont)	F1	If the BASIC program is sending output, the workstation screen must be full of data for F1 to be recognized. Press F19 to display the above message.			
	F19	See F1.			
ESCORT	F1	ignals the end of input and returns to master menu. (Used only with the structure processor)			
	F2	Cancels display output. (Used only with the structure processor)			
	F3	Cancels the current screen and returns to the previous screen. (Used only for program and tutorial modes)			
	F4	Structure processor: aborts structure and returns to menu			
		Program mode: ends free-form input and returns to previous menu			
		Run-time processor: terminates program and returns to caller			

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