

# User Reference Manual

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MULTSESS/HPO

Version 2.0

MVS Operating Environment

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## New features for MULTSESS/HPO Version 2.0.2

### *Year 2000 compliance*

Displayed dates now have a four digit year format. This includes dates on the MULTSESS log and dates displayed in WTOs and user messages.

The DATE= startup parameter remains unchanged with a two digit year format (YY).

A window technique is used to change two digit year formats into four digits for display as follows:

- two digit years 0 through 84 are changed into four digit format 20YY
- two digit years over 84 are changed into four digit format 19YY.

### *FASTPASS support*

FASTPASS sessions are now supported, providing more efficient logon to applications. FASTPASS is set on by default (FASTPASS=YES) to support TSO applications with FASTPASS logon.

### *Extended console support*

Extended console support now allows products such as NETVIEW to receive command responses from MULTSESS/HPO.

### *NPM support*

Support for Network Performance Monitor (NPM) is provided with the new startup option NPM=YES. This is set on by default.

A new command, SET NPM, allows NPM to be set on or off without restarting MULTSESS/HPO.

### *Enhanced SHUTDOWN command*

A new keyword (IMMED) on the SHUTDOWN command allows MULTSESS/HPO to shut down immediately, even if users are still logged on. This avoids problems when shutting down if users have become non-forceable.

## New features for MULTSESS/HPO Version 2.0

### **Substantial increase in the number of users on MVS XA and ESA systems**

Large installations will be able to support large numbers of users with fewer copies of MULTSESS/HPO. This has been achieved by moving the majority of control blocks on XA and ESA systems above the 16 megabyte line. The **overall** virtual storage requirements per user remain unchanged.

This version 2 enhancement will allow considerably more users to log on before reaching the limit of below the line storage.

**Note:** For those systems with constraints on other resources, such as CPU, a substantial increase in logged on users may be impractical.

### **Support for exits running in 31 bit mode**

MULTSESS/HPO will pass control to user exits in 31 bit mode if they are linked AMODE=31. Therefore user exits can now exploit storage areas above the 16mb line.

**Note:** Some previously distributed sample exits had a dependency on MULTSESS internal control blocks (for instance TPX02S22 had a dependency on the ACBE control block). There are no exits in MULTSESS/HPO V2.0 which are dependent on internal control blocks; these now access data via an extended EXIT parameter list.

It is strongly recommended that the new samples are reviewed and used to replace existing samples.

### **Reduced CPU usage by logon reconnect processing**

The processing for a user performing logon reconnect has been reduced significantly. This will be noticeable at installations where the application definitions are dynamically reloaded (by the DEFINE command) and there are a large number of applications (e.g. 100).

### **Improved multi-tasking techniques to increase performance**

The multiple task managers have been enhanced to support the potential increase in the number of users.

### **Substantial reduction in VTAM inquires for application status requests**

The proprietary CKS product NC-NIM is now supported by MULTSESS/HPO. NC-NIM supplies MULTSESS/HPO with changes to APPSTATS as and when they occur (and at no other time), thus avoiding the overhead of transmissions when there are no changes. This is particularly effective for the elimination of the more expensive cross domain inquires.

To facilitate NC-NIM, the following new startup option has been provided:

NIMR-NIM=PROD/TEST

where

PROD starts the NIM receiver of MULTSESS/HPO that will contact the NC-NIM running in the same MVS.

TEST starts the NIM receiver of MULTSESS/HPO that will contact an alternative test version of NC-NIM running in the same MVS.

The following SET command is also provided to dynamically enable, disable or modify the above startup option:

SET NIM ON/OFF/PROD/TEST

### **Support for the ATP MESSAGE language statement**

This allows the ATP component to pass messages and commands to MULTSESS/HPO. The format in an ATP script is:

```
MESSAGE n 'data-string'
```

where **n** is one of the following.

- |   |  |
|---|--|
| 0 | write data to the MULTSESS LOG                             |
| 1 | pass data to user (display on his screen)                  |
| 2 | write data out as a WTO                                    |
| 3 | execute text as a MULTSESS command                         |
| 4 | (reserved for future use)                                  |
| 5 | execute text as a MULTSESS command after script terminates |

As an example, the command

```
MESSAGE 0 'SCRIPT FOR USER TSG1 COMPLETED'
```

will cause the message SCRIPT FOR USER TSG1 COMPLETED to be written to the MULTSESS LOG.

### **Automated screen copy operations from a remote ATP script**

A feature of the ATP MESSAGE command is the ability to perform automated screen copy operations from a remote ATP script.

As an example, including the command

```
MESSAGE 5 'COPY ID1 ID2 (B,T,1,10,8,10,20,10'
```

in an ATP script will cause the command to be executed on completion of the script. This will copy a 'box' of screen data from session ID1 and automatically 'paste' the data at the specified screen location for session ID2. Skilful use of this command can therefore significantly reduce keystrokes for data manipulation between sessions and provide a facility for powerful 'blending' techniques.

### **Improved dynamic panel**

The dynamic panel has been changed to support up to 999 applications (previously 99). To facilitate scrolling through a large number of applications, a number typed in the dynamic panel command area followed by a scroll PFK will cause the page containing that application to appear on the screen.

### **Users allowed access to different application facilities from different terminals**

A user can be provided access to various terminals, each providing different application facilities (for example where terminals are located in different departmental locations) by making multiple directory entries for the same userid, each with a different terminal definition.

### **New pre-startup options provided in JCL**

New pre-startup options are available to configure the product operating mode. These options are included in the PARM parameter of the MVS JCL EXEC statement. The following pre-startup options are available:

- |       |   |
|-------|---|
| SPCHK | The two options SPCHK and NOCHK turn storage  |
| NOCHK | footprinting on and off respectively, allowing the product to detect certain storage overwrites, or not, as required. |
| NONXA | This allows 24 bit operation on an XA system.   |

### ***Sending messages to specific users with the improved MSGAPP command***

The MSGAPP command has been enhanced to include userid. The new format is:

MSGAPP *aplid* *userid* *message-text*

As an example, MSGAPP TSO\* DEV\* DEPARTMENTAL MEETING AT 1400 HRS will interrupt applications beginning with TSO and send the message DEPARTMENTAL MEETING AT 1400 HRS to all userids beginning with DEV.

### ***Terminal monitor support with NETSPY***

New startup option NETSPY=YES/NO. If YES is specified, terminal monitor support with NETSPY is provided.

### ***Using terminal name as userid***

New startup option AUTO-LOGON=YES/NO. If YES is specified, this startup option will cause the user to be logged on to MULTSESS/HPO using the terminal name as the userid. This facility was previously supplied as customization fix number MSF0614.

### ***Returning users to logo***

New startup option LOGOFF=LOGO. If specified this will return users to the MULTSESS logo at logoff and not to VTAM.

### ***Warning WTOs are now rollable***

When recoverable VTAM errors occur, the WTO message is now made rollable (previous non-rollable WTOs required operator intervention).

### ***Reconnecting on a different terminal type with sessions active***

New startup option RECONNECT-DIFFERENT-TERMTYPE=YES/NO. This startup option solves the problem of VTAM errors when reconnecting on a different terminal type with sessions active (refer to recommendations on the use of this parameter in the User Installation Manual chapter entitled Pre-startup and startup options). This facility was previously supplied as customization fix number MSF0613.

### ***Providing a menu when a session is terminated with round-robin in effect and the MSKEY set***

New startup option ROUND-ROBIN-SESSEND=MENU. This startup option solves the problem of MULTSESS/HPO not sending a menu when a session is terminated with round-robin in effect and the MSKEY set. This facility was previously supplied as customization fix number MSF0604.

### ***Issuing a logoff on termination of the last session when round robin is in effect and MSKEY is set***

New startup option ROUND-ROBIN-LOGOFF=YES/NO. This startup option will issue a LOGOFF and return the terminal to VTAM when the last session in round-robin mode is terminated with the MSKEY set. It is active with YES specified. This facility was previously supplied as customization fix number MSF0603.

### ***Setting the ATTN key as the MENU key***

New startup option ATTN-MENU-KEY=YES/NO. If YES is specified, this startup option will cause the ATTN key to be treated as the MENU key. This allows ATTN to be sent to the session if pressed twice. This facility was previously supplied as customization fix number MSF0608.

### ***Placing the user into DISCONNECT status when a terminal is powered off***

New startup option POWER-OFF-DISCONNECT=YES/NO. If YES is specified, this startup option will cause MULTSESS/HPO to put the user into DISCONNECT status when a terminal is powered off. This facility was previously supplied as customization fix number MSF0600.

### ***Searching for a session switch character in the first character position of all modified fields***

New startup option SEARCH-ALL=YES/NO. If YES is specified, this startup option will cause MULTSESS/HPO to look for a session switch character in the first character position of all modified fields, instead of just the first. This facility was previously supplied as customization fix number MSF0601.

### ***Sourcing of fixes***

All MULTSESS/HPO V1.1 fixes up to MSF0810 have been incorporated into source.

All MULTSESS/HPO V2.0 fixes up to MSF0257 have been incorporated into source.

### ***Removal of operator intervention for hangs***

Hangs caused by MULTSESS/HPO when waiting for a response from either a terminal, an application or VTAM have been eliminated. This sort of hang may have previously required operator intervention, especially if the hang was caused by a missing response from an application.

### **Prerequisites for running MULTSESS/HPO**

MULTSESS/HPO has been designed to run under the latest releases of MVS, MVS/XA and MVS/ESA running ACF/VTAM V3.3 and earlier, in both SNA and NON-SNA environments.

### **Devices supported by MULTSESS/HPO**

- all models of 317x, 318x, 319x and 327x (or their equivalents), utilizing the maximum available screen display area
- the 3290 Information Panel with each interactive panel in 3270 mode
- LUTYPE 1 printers (SNA printers with the SCS feature)
- devices attached through NTO
- IBM 3767 and compatible devices.

Application sessions using MULTSESS/HPO are supported in the terminal's native mode.

Terminal to MULTSESS/HPO sessions are supported in model 2 mode.

### **Future publication changes**

Changes will be made periodically to MULTSESS/HPO publications to reflect new releases and facilities.

### **Reader's comment form**

A form for the reader's comments is provided at the back of this manual. Any information supplied may be used or distributed by the authors in any manner considered appropriate without incurring any obligation whatsoever.

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# Table of contents

## Preface

### Chapter 1 - Introduction to MULTSESS/HPO

What is MULTSESS/HPO	1.1
Without MULTSESS/HPO	1.1
With MULTSESS/HPO	1.1
MULTSESS/HPO sessions	1.1
Getting started with MULTSESS/HPO	1.2
Your own logo screen	1.2
Logging on to MULTSESS/HPO	1.2
Using MULTSESS/HPO	1.3
Working in dynamic panel mode	1.5
Working in non-panel mode	1.7
Logging off	1.7
Commonly used functions	1.8
Sending a message to another user	1.9
Transferring to another terminal	1.10
Inputting more than one command on a line	1.10
Sending an application screen to another user	1.10
Testing the response time of the system	1.11
Using the attention key	1.11
Printing a screen image	1.11
Different ways of switching between sessions	1.12
Summary of commands by class	1.13

### Chapter 2 - MULTSESS/HPO commands

The MULTSESS/HPO command structure	2.1
On-line help available	2.1
User command authority	2.1
ATPCMD (ATP users only)	2.2
ATPCMD ABEND (ATP users only)	2.3
ATPCMD DISPLAY (ATP users only)	2.4
ATPCMD RESET (ATP users only)	2.5
ATPCMD SHUTDOWN (ATP users only)	2.6
ATPCMD TRACE (ATP users only)	2.7
ATPDIR (ATP users only)	2.8
ATPVAR (ATP users only)	2.9
ATTN	2.10
COMMENT	2.11
CONSOLE	2.12
COPY	2.13
DEFINE	2.15
DIRECT	2.16
DISCONN	2.17
DISPLAY PANEL	2.18
DISPLAY VPOOLS	2.19
ECHO	2.20
EXIT	2.21
FIX	2.22
FORCE	2.23
HELP	2.24
IMAGE	2.25

IMAGE DELETE 2.26  
 IMAGE GET 2.27  
 IMAGE OFF 2.28  
 IMAGE ON 2.29  
 IMAGE QUERY 2.30  
 IMAGE SEND 2.31  
 IMAGE VIEW 2.32  
 LLOAD 2.33  
 LOAD 2.34  
 LOGOFF 2.35  
 LOGON 2.36  
 MESSAGE 2.37  
 MESSAGE ALL 2.38  
 MORE 2.39  
 MSGAPP 2.40  
 PANEL 2.41  
 PANEL OFF 2.42  
 PANEL ON 2.43  
 PANEL *name* 2.44  
 PANEL PFKSET 2.45  
 PLOAD 2.46  
 PRINT 2.47  
 PROFILE 2.48  
 QUERY (command class G only) 2.49  
 QUERY (command class B only) 2.51  
 QUERY TRANSACT 2.52  
 RECALL 2.53  
 RESPONSE 2.54  
 RUN 2.55  
 SESSION 2.56  
 SET 2.58  
 SET CMDCHAR 2.59  
 SET DUMP 2.60  
 SET EDS 2.61  
 SET MAXUSERS 2.62  
 SET MSKEY 2.63  
 SET NEWS 2.64  
 SET NEWSFILE 2.65  
 SET NIM 2.66  
 SET NPM 2.67  
 SET PFK 2.69  
 SET SDWA 2.70  
 SET SESSCHAR 2.71  
 SHUTDOWN 2.72  
 STACK 2.73  
 START 2.74  
 STOP 2.75  
 TERMCOND 2.76  
 TERMRUN (ATP users only) 2.77  
 TERMSESS 2.78  
 TPTRACE 2.79  
 VERSION 2.80  
 VPOOL 2.81  
 VTERM 2.82  
 VTERM SESSIONS 2.83  
 WAIT 2.84

## **Chapter 3 - MULTSESS/HPO messages and error codes**

Finding different types of message in this chapter	3.1
ATP/HPO messages	3.1
Part 1 - General MULTSESS/HPO messages	3.2
Part 2 - System operator messages	3.36
Part 3 - Error codes and messages	3.39
Error codes	3.39
Error messages	3.42

## **Index**

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## Chapter 1 - Introduction to MULTSESS/HPO

### What is MULTSESS/HPO

MULTSESS/HPO is an application program designed for use under IBM's OS/MVS operating system environment.

Its primary function is to overcome the problems users have in working with more than one application at a time from a single terminal. This is also true for users who work with more than one connection to the same application.

### Without MULTSESS/HPO

Without MULTSESS/HPO, you must first connect to the application and logon by entering a userid and password before you can work with any application from your terminal.

To terminate the connection, logoff processing must be performed. If you only work with one application, this process is performed maybe once or twice per day.

However, if you work with two or more applications, this process must be performed many times a day, thereby wasting a lot of valuable time.

### With MULTSESS/HPO

MULTSESS/HPO overcomes these problems by allowing you to work with more than one application at the same time, removing the need to continually logon and logoff.

Each application is maintained independently by MULTSESS/HPO and you can quickly switch between them.

In fact when you switch back, you will find that the screen is exactly as you left it. Even half-typed fields will be returned, which you can then complete and send to the application.

### MULTSESS/HPO sessions

These connections are referred to as 'sessions'. You may have sessions with different applications, as well as multiple sessions with the same application.



## Using MULTSESS/HPO

What happens next depends on how your installation has set you up to work as a user. You can work in one of three modes:

- Dynamic Panel Mode**
- Basic non-panel mode**
- User panel mode**

These different modes are illustrated and described on this and the following pages.

### Dynamic Panel Mode

```
.....
TERMINAL:-CAKT02      LOGMODE:-S2PN87F8      TIME:-11:19:05      USERID:-CAK0004
.....
***  SYSTEM B WILL BE CLOSED FOR MAINTENANCE 25/11/92 12:00 TO 15:00  ***
***
***          HELP DESK TELEPHONE NUMBER IS NOW XTN 3456          ***
***
.....
.  C ID PFK DESCRIPTION OF SESSION              STATUS  .
.
.  _  1.  1 TSO      SYSTEM A                    AVAIL    .
.  _  2.  2 TSO      SYSTEM B                    ACTIVE   .
.  _  3.  3 CICS     ORDER ENTRY SYSTEM          ACTIVE   .
.  _  4.  4 CICS     MANUFACTURING REQUIREMENTS  AVAIL    .
.  _  5.  5 IMS      FINANCIAL CONTROL SYSTEM    AVAIL    .
.  _  6.  6 HCF      DISTRIBUTED 8100 SYSTEMS     AVAIL    .
.  _  7.  7 NCCF     NETWORK CONTROL            UPDATE   .
.  _  8.  8 DISSOS   ELECTRONIC MAILBOX          ACTIVE   .
.  _  9.  9 NCI      ELECTRONIC BULLETIN BOARD    ACTIVE   .
.  _ 10. 10 CICST    TEST DATABASE SYSTEM          AVAIL    .
.....
SCROLL PFKEYS- UP= 19 DOWN= 20      SESSCHAR= #      NOKEEP AUTON  MSKEY= OFF
.....
COMMAND=>
```

### Basic Non-panel Mode

```
MS0006 - EDWARD LOGGED ON AT 14:58:31 ON 24/10/92
MS0093 - SESSION SWITCH CHARACTER SET TO PFK12 (OPTION AUTOFF NOKEEP)
MS0251 - MULTSESS/HPO KEY SET TO #

MS0252 - COMMAND CHARACTER SET TO ;
MS0261 - INFO FOR USER EDWARD ON TERM - CAKT02 USING LOGMODE - S2PN87F8
MS0130 - VTERMS AVAILABLE FOR USE:
MULT1 - ED1      ,MULT2 - ED2      ,MULT3 - ED3      ,POOL* - POOL*
POOL* - POOL*
MS0131 - APPLICATIONS AVAILABLE FOR USE:
NCI1 - N/A      ,NCI12 - N/A      ,NCI1X - N/A      ,NCI12X - N/A
NCI - N/A       ,NCIV - *        ,NCIMAX2 - *      ,TS08CHAR - N/A
TSOTERM - *     ,TSOCINI - N/A     ,TSOTIME - N/A    ,TSOTIME2 - N/A
MIMTEST - N/A   ,MULTTEST - N/A   ,MULTSESS/HPO - N/A ,HCF - N/A
HCFC - N/A     ,HCFTERM - *     ,VPRG - *        ,IMSTERM - *
IMS - *        ,MULT1 - N/A     ,MULT9 - N/A     ,MULT10 - N/A
PANTSO - N/A   ,PANTSOC - N/A   ,PANHCF - *      ,PANIMS - *
PANIMSC - *    ,PANVPRG - *

INPUT
```

## User Definable Panel

```
#####  
#####  
#####  
#####  
#####
```

EXAMPLE OF A USER DEFINED PANEL

```
PF 1   IMS   Data Base System  
  
PF 2   TSO   Time Sharing Option  
  
PF 3   EMAIL Electronic Mail  
  
PF 4   Disconnect  
  
PF 5   Logoff
```

In the event of difficulty please telephone TECHNICAL SERVICES on extn 999.

----- MESSAGES -----

A user definable panel is a panel designed specifically for use at your installation, about which your system administrator will be able to give you further information. As the general principles are exactly the same as for the other two modes, refer to the information on the mode that is most like yours. It should be noted that in User Panel Mode, the RECALL and MORE commands are not supported, and the FIX and EXIT commands are not fully supported.



### Typing data into panel fields

By using the cursor keys to position yourself over a field, you can type data into various fields of the Dynamic Panel. Once you have pressed <Enter>, the data will be validated and any errors (for example, a multiple defined PFK) will be signalled on line 24.

You can alter the following fields:

<b>C</b>	You can enter A (for Activate), P (Print screen image), S (Start) or T (Terminate session) into the one character field in the column headed 'C'.
<b>PFK</b>	Type a number from 1 to 24 to define a PFK that will start a session, or overwrite with spaces to remove a PFK setting (not allowed if NOUPDATE option selected).
<b>UP or DOWN</b>	You can set your scrolling PFKs, or unset them by overtyping with spaces (not allowed if NOUPDATE option selected).
<b>SESSCHAR</b>	You can set the SESSCHAR value, AUTON/AUTOFF and KEEP/NOKEEP switches (See the SET command in section 2).
<b>MSKEY</b>	You can type in the MULTSESS/HPO return key into this field (see below).
<b>COMMAND</b>	You can type in commands as described in <i>Working in non-panel mode</i> on page 1.7. You can also type in the ID number of an application that you want to start a session with.

### More information

A more detailed account of Dynamic Panel mode is given in *Chapter 1 - Modes of working with MULTSESS/HPO* in the MULTSESS/HPO Technical Reference Manual.

Please refer also to the PANEL ON command on page 2.43.

## Working in non-panel mode

Type in the command:

```
Q *
```

and press <Enter>.

A list of all the applications that you are authorized to access will be displayed on your terminal.

Now enter the command:

```
Q SESSCHAR
```

This will tell you your session switching character.

### Starting sessions

Select an application that is available and type the following command:

```
SESSION applname
```

where:

```
applname
```

is the name of the application you have chosen. You should now see the application screen displayed.

Instead of using the application, enter your switch character and press <Enter>. If your SESSCHAR is a PF or PA ( Program Attention ) you do not have to press <Enter>. You will now return to MULTSESS/HPO mode and all the information that resulted from your Q \* and Q SESSCHAR commands will be redisplayed. If you repeat your SESSION command you will return to the session you started, where it will be waiting for you. The SESSION command is fully described in *Chapter 2 - MULTSESS/HPO commands*.

### Setting up a PFK

To save you typing in certain commands in full all the time, you can set up a PFK to do the command for you. Type in the command:

```
SET PFK1 IMM SESSION applname
```

where applname is the same application name you used earlier.

Now press <PFK1>. You will return to where you were after the earlier session command.

The 'IMM' has the effect of actually carrying out the command. Without 'IMM', MULTSESS/HPO would display the session command and then wait for you to press <Enter>. Use your SESSCHAR to get back to MULTSESS/HPO mode again. You can find out if you have any PFKs already set up for you by entering the command:

```
Q PFK
```

## Logging off

You cannot log off while you have active sessions; terminate them with the command:

```
TERM ALL
```

Then enter the command:

```
LOGOFF
```

If someone has sent you a message, you will not be able to log off until you have received it. Repeat the LOGOFF command once you have received the message.

## Commonly used functions

### Getting help

When you are in MULTSESS/HPO mode, entering the command HELP will display all the commands you are authorized to use. The <PFK1> key will give you some help when the terminal is displaying the logo. The commands that you can use will depend on the priority 'class' of user you are, but you should have a screen similar to the following:

```
***** HELP INFORMATION *****
* The HELP command gives further information about MULTSESS commands and *
* messages. Within HELP uppercase letters denote the minimum abbreviation *
* for each command. The HELP command does not support abbreviated forms. *
*
*
* For more information enter: Help function
* where
* "function" is one of the commands listed below (e.g. SET), or a valid
* message number (e.g. MS0005).
*
* CLASS AVAILABLE COMMANDS
* -----
* G - ATPVAR ATTN DISCONN ECHO HELP IMAGE LOGOFF
* LOGON MESSAGE PANEL PRINT PROFILE QUERY RECALL
* RESPONSE RUN SESSION SET STACK TERMCOND TERMRUN
* TERMSESS VTERM WAIT
***** END OF HELP INFORMATION *****

INPUT
```

If you want information about a particular MULTSESS/HPO command, enter `HELP command name`, where *command name* is the name of the command for which you need help. For example, if you enter the command `HELP TERMSESS`, you will receive the following information at your terminal:

```
***** TERMSESS HELP INFORMATION *****
* The TERMSESS command can be used to terminate any one or all of your *
* current SESSIONS. *
*
* Command format is:-
*
* TERMSESS alias
*
* Where 'alias' is the ALIAS name assigned during SESSION creation.
*
* To terminate all existing SESSIONS specify an alias of 'ALL'.
*
* i.e. TERM ALL
*
* A list of your current SESSIONS, with their aliases can be displayed
* via the 'Q SESS' command.
*
***** END OF HELP INFORMATION *****

INPUT
```

## Sending a message to another user

### An unknown userid

You may not know the userid of the person you want to send the message to, or even if he is actually using the system at the time.

In this case, enter the command:

```
Q NAMES
```

and you should receive a message similar to the following:

```
Q NAMES
MULTOPER INTERNAL    0, ALANU   DISC      0, BERT   DISC      1,
EDWARD   CAKT02      0, HERBERT CAKT05
```

This will tell you if your target user is logged on. If he is for example EDWARD, you can then send him a message.

For example:

```
MESSAGE EDWARD MEETING 14.00
```

User Edward will receive:

```
25/11/92 09:50:10 - MSG FROM FRED : MEETING 14.00
```

Refer to the MESSAGE command on page 2.37.

## Transferring to another terminal

You may be working at a terminal when you find that you need to use a terminal elsewhere. Perhaps you need some information in another office, or the person whose terminal you're using wants to use it. Enter the command:

```
DISCONN
```

and you will be returned to the MULTSESS/HPO logo screen, but your sessions will still be maintained. Now you can go elsewhere, logon again and continue from where you left off. The DISCONN command is fully described in *Chapter 2 - MULTSESS/HPO commands*.

## Inputting more than one command on a line

In MULTSESS/HPO mode enter the command:

```
Q CMDCHAR
```

You will receive a message telling you what your command separator (CMDCHAR) is, for example:

```
CMDCHAR SET TO ;
```

You can use this character to separate commands if you want to enter more than one command at a time. Using CMDCHAR from the example above you could terminate all your sessions and log off with a single command:

```
TERM ALL;WAIT 3;LOGOFF
```

You can change your CMDCHAR by using the set command.

Type in:

```
SET CMDCHAR /
```

to change your CMDCHAR to /.

**Note:** *Chapter 2 - Switching between applications* in the MULTSESS/HPO Technical Reference Manual provides further details of the Command Separation Character.

## Sending an application screen to another user

Whilst in session with an application you may have some information on the screen that you want to show to another user. In this case, carry out the following procedure:

1. Switch back into MULTSESS/HPO mode (your screen image is still maintained).
2. Enter the command:

```
MESSAGE SMITH LOOK AT THESE SALES PROJECTIONS
```

3. Smith receives the message and enters the command:

```
IMAGE ON;MESSAGE DOE OK SEND THEM OVER
```

4. Once you have received confirmation that Smith is ready to receive the screen image (the IMAGE ON part of the command), you can send the screen image over by using the command:

```
IMAGE SEND SMITH alias
```

where alias is the alias of your session.

**Note:** Refer to the IMAGE command on page 2.25.

## Testing the response time of the system

If you think that the system is running slowly, you can confirm this by entering the command:

```
ECHO
```

Note down the delay times, so that later you can repeat the command to see if the system's speed is improving or worsening.

Similarly, you can test the response time of a particular application session with the command:

```
RESPONSE LIST alias
```

where *alias* is the alias of the session whose response time you wish to test.

If required, you can collect data on connect time, usage and response times using IBM's Network Performance Monitor (NPM). This can be activated with the command:

```
SET NPM
```

For a description of NPM refer to *Network Performance Monitor* on page 4.16 of the MULTSESS/HPO Customization Reference Manual.

For further details on the above commands, see the ECHO command on page 2.20, the RESPONSE command on page 2.54 and the SET NPM command on page 2.67.

## Using the attention key

On SNA terminals the ATTN key may be used as a HOT interrupt key. Pressing ATTN whilst in an application session has the same effect as the session switch character/PF/PA key. However, the ATTN key may be used even when the keyboard is locked and the application is processing a transaction on behalf of the user.

It is possible, for example, to start a long running CLIST in TSO, switch out of the session using ATTN, but leaving the CLIST running, use another application and return later to TSO to view the results of the CLIST.

On terminals that support the ATTN key, this method of switching is available in addition to the other switching techniques, PF/PA key or switch character.

## Printing a screen image

MULTSESS/HPO provides a means by which you can print a screen image. How this command is processed depends on your installation, although the syntax of the command is given in the PRINT command on page 2.47.

Consult your system administrator to find out exactly what options you have available.

## Different ways of switching between sessions

Switching between sessions is very flexible. The following example gives an illustration of how you can adapt your session switching characters. Note the use of CMDCHAR in this example.

Start up two different sessions by entering commands as follows:

```
TERM ALL;SET MSKEY OFF
SET SESSCHAR # ;SET SESSCHAR AUTOFF
SESS appl1 SESS1
```

where:

*appl1*

is an available application.

If you are working in Dynamic Panel mode, you can overtype the input fields. You have now removed your old sessions and started up a session with *appl1*, the alias of the session being SESS1. Use your SESSCHAR to switch back to MULTSESS/HPO mode and start up another session with another available application and give it an alias SESS2. Switch back to MULTSESS/HPO and enter the command:

```
SET SESSCHAR AUTON;SESS SESS1
```

The AUTON feature switches you sequentially through your sessions and then back to MULTSESS/HPO after your last session.

Now, when you enter your SESSCHAR, you will jump to SESS2 instead of MULTSESS/HPO. Enter your SESSCHAR again and you will be back in MULTSESS/HPO mode. Now enter the command:

```
SET MSKEY /
```

The MULTSESS/HPO key (MSKEY) always takes you back to MULTSESS/HPO. Go into your first session with the command:

```
SESS SESS1
```

Use your SESSCHAR to switch to SESS2. Enter your SESSCHAR again. Instead of going back to MULTSESS/HPO after your last session SESS2, you went back round to the first again. Because the MSKEY is set, you did not need the SESSCHAR to take you back into MULTSESS/HPO mode. Enter the MSKEY to return to MULTSESS/HPO mode.

You can always find out what your SESSCHAR and MSKEY settings are by using the commands:

```
Q SESSCHAR
```

```
Q MSKEY
```

**Note:** How to set your SESSCHAR and MSKEY is described under the SET command on page 2.58. A more detailed discussion on all aspects of session switching appears in the MULTSESS/HPO Technical Reference Manual.

## Summary of commands by class

### CLASS G USERS

ATPVAR	SET	<i>&amp;var</i>	<i>value</i>
	DELETE	<i>&amp;var</i>	
	DELETE	*	
	QUERY	<i>&amp;var</i>	
	QUERY	*	
ATTN	<i>alias</i>		
COMMENT	<i>comment-text</i>		
COPY	<i>alias1</i> <i>alias2</i> <i>(option)</i>		
DISCONN			
DISCONN	<i>userid</i>		
ECHO	<i>samples</i>	<i>rusize1</i>	<i>rusize2</i>
HELP	<i>command</i> <i>MSnnnn</i>	<i>function</i>	
IMAGE	DELETE		
	GET	<i>userid</i>	<i>alias</i>
	OFF		
	ON		
	QUERY		
	SEND	<i>userid</i>	<i>alias</i>
	SEND	<i>userid</i>	IMAGE
	VIEW		
LOGOFF			
LOGON	<i>userid</i>	<i>password</i>	<i>newpassword</i>
MESSAGE	<i>userid</i>	<i>message-text</i>	
MORE			
PANEL	OFF		
PANEL	ON	NOMSG NOEXIT NOPFK NOUPDATE	
	<i>name</i>	MSGON/MSGOFF	
	PFKSET	<i>up</i> <i>down</i> <i>num1</i> <i>numn</i>	
PRINT	<i>option</i>	<i>alias</i>	<i>options</i>

PROFILE	<i>name</i> LIST EXECUTE					
QUERY	* ACTIVE CMDCHAR CONSESS SESSCHAR MSKEY NAMES NEWS PFK SESSCHAR SESSION TERMINAL TIME USERS <i>userid</i>					
RECALL						
RESPONSE	LIST CLEAR	<i>alias</i> <i>alias</i>				
RUN	<i>script</i> <i>script</i>	<i>alias</i> <i>alias</i>	<i>trace</i> RECON	<i>trace</i>		
SESSION	<i>applname</i>	<i>alias</i>	<i>vterm</i>	<i>logmode</i>	<i>script</i>	( <i>cinit</i> )
SET	CMDCHAR EDS MSKEY PFK <i>n</i> SESSCHAR	<i>char</i> ON/OFF <i>char</i> /PFK <i>nn</i> /PAK <i>nn</i> /ATTN/OFF IMM <i>command-string</i> <i>char</i> /PAK <i>nn</i> /PFK <i>nn</i> /AUTON/AUTOFF/KEEP/NOKEEP				
STACK	<i>dataset</i>	<i>member</i>				
TERMCOND	<i>name</i> ALL					
TERMRUN	<i>alias</i>					
TERMSSESS	ALL <i>alias</i>	ALL ALL				
VTERM	<i>vtname</i>					
WAIT	<i>nn</i>					

## CLASS C USERS

ATPDIR	<i>member</i>		
DEFINE	<i>member</i>		
DIRECT	<i>member</i>		
DISPLAY	PANEL VPOOLS	<i>panelname</i> <i>poolname</i>	
IMAGE	GET	<i>userid</i>	<i>alias</i>
LLOAD	<i>name</i>		
MESSAGE	ALL	<i>message-text</i>	
MSGAPP	<i>applid</i>	<i>userid</i>	<i>message-text</i>
PLOAD	ALL <i>panelname</i>		
START	<i>applid</i> *		
STOP	<i>applid</i> *	FORCE FORCE	
VPOOL	<i>member</i>		

## CLASS B USERS

ATPCMD	ABEND DISPLAY RESET SHUTDOWN TRACE	<i>userid</i>  <i>script</i>  ALL/OFF/ON	    <i>libraryid</i>
CONSOLE	<i>message-text</i>		
FORCE	<i>userid</i>	<i>alias</i>	
QUERY	MAXUSERS NETWORK TASKS <i>userid</i> <i>userid</i>	   ALL *	
SET	MAXUSERS NEWSn NEWSFILE NIM	<i>nnn</i> <i>news-text</i>  ON/OFF/PROD/TEST	
SHUTDOWN			
VTERM	<i>vtname</i>	SESSIONS	

## CLASS A USERS

EXIT	ENABLE <i>n</i> DIABLE <i>n</i> QUERY <i>n</i>
FIX	<i>nnn</i>
FORCE	ALL
LOAD	<i>module</i>
QUERY	TRANSACTION
SET	DUMP ON/OFF/ALL NPM ON/OFF/TRACE/NOTRACE SDWA KEEP/NOKEEP
TPTRACE	RPL <i>terminal</i> DATA <i>terminal</i> OFF
VERSION	

## Chapter 2 - MULTSESS/HPO commands

### The MULTSESS/HPO command structure

This section describes the commands available to users of MULTSESS/HPO. All commands are grouped alphabetically. Each MULTSESS/HPO command and subcommand is assigned a command class. A command or subcommand may only be invoked by a user of equal or higher authority level.

The default command class is indicated within each command description. Your administrator may have changed the class of some of the commands as part of the installation process. Within each command the subfunctions are grouped by class.

The minimum abbreviation is indicated for each of the commands.

Some commands refer to the use of generic names, consisting of a 'stub' followed by an asterisk. An asterisk is used to specify anything that begins with the preceding 'stub'. For example:

```
MESSAGE AB* WELCOME TO MULTSESS/HPO
```

will send the message to any user whose user ID begins with the letters AB.

### On-line help available

On-line help information is available for all commands, subcommands and MULTSESS/HPO messages by typing:

```
HELP commandname
```

or

```
HELP messageid
```

for example:

```
HELP QUERY  
HELP MS0005
```

Entering the HELP command with no operands will list all the commands for which the user is authorized. See the HELP command on page 2.24 for further details.

### User command authority

A user is assigned a command authority by the system administrator in the MULTSESS/HPO directory of users.

## **ATPCMD** (ATP users only)

**Description** Allows a MULTSESS/HPO user to issue commands to the ATP address space.

**Command class** **B**

**Minimum abbreviation** ATPCMD

**Format**

- ATPCMD ABEND**
- ATPCMD DISPLAY**
- ATPCMD RESET**
- ATPCMD SHUTDOWN**
- ATPCMD TRACE**

where:

- ABEND** abends ATP.
- DISPLAY** displays ATP status information.
- RESET** marks in-store ATP script for deletion.
- SHUTDOWN** shuts down ATP.
- TRACE** starts or stops ATP tracing.

These formats are individually described on the following pages.

## **ATPCMD ABEND** (ATP users only)

**Description** ATP will be abended. A dump will be provided if a SYSUDUMP card is present in the ATP startup JCL. If a userid is passed to ATP with the ABEND request, control blocks, related to ATP requests currently in process on behalf of the named user, will be formatted and printed on the ATP log file.

**Command class** **B**

**Minimum abbreviation** ATPCMD ABEND

**Format** **ATPCMD ABEND**  
**ATPCMD ABEND *userid***

where:

***userid*** is the userid to be passed to ATP with the ABEND request.

## **ATPCMD DISPLAY** (ATP users only)

<b>Description</b>	ATP will return the following status information about the ATP address space: <ul style="list-style-type: none"><li>• the amount of storage used by ATP modules</li><li>• the amount of storage used for scripts</li><li>• the amount of dynamic working storage in use by ATP</li><li>• the number of the times the ATP maximum subtasks was exceeded, resulting in user requests being queued pending use of a subtask processor.</li></ul>
<b>Command class</b>	<b>B</b>
<b>Minimum abbreviation</b>	ATPCMD DISPLAY
<b>Format</b>	<b>ATPCMD DISPLAY</b>

## **ATPCMD RESET** (ATP users only)

**Description** ATP will mark the in-storage copy of the named script from the indicated library for deletion when its use count reaches zero. The next request for this script will cause a fresh copy to be loaded from the script library.

The default is the PUBLIC library.

**Command class** **B**

**Minimum abbreviation** ATPCMD RESET

**Format** **ATPCMD RESET *script***  
**ATPCMD RESET *script libraryid***

where:

***script*** is the script to be deleted.

***libraryid*** is the script library to load from.

## **ATPCMD SHUTDOWN** (ATP users only)

**Description** ATP will perform an orderly shutdown and produce run-time statistics.

**Command class** **B**

**Minimum abbreviation** ATPCMD SHUTDOWN

**Format** **ATPCMD SHUTDOWN**

## **ATPCMD TRACE** (ATP users only)

**Description** This command activates or terminates tracing within the ATP address space. Records that trace ATP internal activity and the dataflow between MULTSESS/HPO and ATP will be written to the file pointed to by the ATPLOG DD statement in the JCL used to initiate ATP.

**Command class** **B**

**Minimum abbreviation** ATPCMD TRACE

**Format** **ATPCMD TRACE ALL**  
**ATPCMD TRACE OFF**  
**ATPCMD TRACE ON**

where:

<b>ON</b>	is start minimal ATP tracing.
<b>ALL</b>	is start full ATP tracing.
<b>OFF</b>	is stop ATP tracing.

## **ATPDIR** (ATP users only)

**Description** Performs an on-line update of the ATP control table. The ATP table is an optional security file to control access to the scripts held in the public or private script libraries.

**Command class** **C**

**Minimum abbreviation** ATP

**Format** **ATPDIR member**

where:

**member** must be the name of a valid member residing in the dataset referred to by the ATPDIR DD statement in the JCL used to initialize MULTSESS/HPO. The member will be verified for syntax before any update is attempted.

## **ATPVAR** (ATP users only)

**Description** Defines, deletes, amends and displays the value of ATP user variables. User variables may be included in an ATP script to vary the run-time operation of a script. For example a single general purpose script may initiate a session to a menu driven application, with the actual menu selections being driven by variables. Up to twenty variables may be set by each user.

**Command class** **G**

**Minimum abbreviation** ATPV

**Format**

```
ATPVAR SET &var value  
ATPVAR DELETE &var  
ATPVAR DELETE *  
ATPVAR QUERY &var  
ATPVAR QUERY *
```

where:

**&var** is the name of an ATP variable.  
**value** is the value to be assigned to the variable.  
**\*** indicates all ATP variables.

**Note** Any of the system variables (e.g. &SYSTIME, &SYSDATE) may be used as part of *value*, and will be resolved before being passed to ATP.

## ATTN

**Description** Sends an attention interrupt to any application.

**Command class** **G**

**Minimum abbreviation** ATTN

**Format** **ATTN alias**

where:

**alias** is the alias name assigned during session creation. A list of your current sessions, with their aliases can be displayed via the QUERY command. If the alias name is omitted, the attention interrupt will be sent to your last accessed session. If that session is no longer in existence, the ATTN command will be rejected.

### **Alternative methods of sending ATTN**

#### 1. **USING THE ATTN COMMAND FROM WITHIN THE SESSION**

If you have your MSKEY set as a character, or have no MSKEY set and SESSCHAR set as a character with AUTOFF, then you can send an attention interrupt to the application whilst remaining in session. Using '/' as an example, type in '/ATTN' and press <Enter>. MULTSESS/HPO intercepts this and sends the ATTN to the application, leaving you in session.

#### 2. **USING THE ATTN KEY**

One of the reasons you may want to send an attention interrupt to the application is that the keyboard is locked. In this case, if pressing the ATTN key results in your returning to MULTSESS/HPO mode, then pressing the ATTN key before any other key, will return you to the session and send the ATTN to the application.

For this method to be applicable, your SESSCHAR and MSKEY settings must ensure that the ATTN key returns you to MULTSESS/HPO, having either SESSCHAR AUTOFF or your MSKEY set as ATTN, the corresponding commands being:

```
SET SESSCHAR AUTOFF
SET MSKEY ATTN
```

This method can be applied to any PF or PA key assigned as a SESSCHAR or MSKEY. The same principles apply, if pressing the PFK/PAK returns you to MULTSESS/HPO, then pressing it again, before any other key, will return you to the session and send the PFK/PAK to the application.

## COMMENT

<b>Description</b>	A comment line can be inserted at any time in order to provide an explanation of commands, for example within a profile.
<b>Command class</b>	<b>G</b>
<b>Minimum abbreviation</b>	<b>*</b>
<b>Format</b>	<b>* <i>comment-text</i></b>

## CONSOLE

**Description**

The CONSOLE command writes a user record to the MULTSESS/HPO console file defined by the CONSOLE DD statement.

Up to 80 characters of data can be specified, thereby allowing the documentation of traces and problem areas before the console file is sent to your Support Office for analysis.

MULTSESS/HPO will prefix the data with your userid before printing it.

**Command class**

**B**

**Minimum abbreviation**

CONS

**Format**

**CONSOLE message-text**

**Example**

CONSOLE TRACE of CICS hang follows

## COPY

**Description** The COPY command copies data from one session to another in either box or string format. On completion of the command, the session returned is determined by the session option (see *option* field below).

**Command class** G

**Minimum abbreviation** COPY

**Format** COPY *alias1 alias2 (option*

where:

***alias1*** is the alias of the session from which to copy data.

***alias2*** is the alias of the session to which data is copied (*alias2* may be the same as *alias1*). Information about an alias can be displayed by entering ? in the S column of the application selection menu panel.

**(*option*** determines:

- that the source copy data is in either box or string format.
- the session to be returned on completion.
- the start and end positions for the data to be copied. (If start and end positions are not specified, an interactive COPY facility is provided - see interactive example later in this description)

The format of the (*option* field is as follows:

(*data, session, sr1, sc1, sr2, sc2, dr, dc*

where:

***data*** determines that the data to be copied is in either box or string format. Enter B for box or S for string. Data copied from a box will be the data contained within the specified row and column positions which make up the box, as entered in the *sr* and *sc* fields. Data copied from a string will be the continuous string of data contained within the start and end positions, as entered in the *sr* and *sc* fields.

***session*** determines the session to be returned on completion of the COPY command. Enter one of the following:

- F - the session being copied from
- L - the last active session
- M - the Application Selection Menu
- T - the session being copied to

continued ...

*sr1, sc1, sr2, sc2, dr, dc* determine the start and end positions for the data to be copied; all row and column positions are determined from the top left cursor position, starting row 1, column 1:

*sr1* - source session, start of data area row

*sc1* - source session, start of data area column

*sr2* - source session, end of data area row

*sc2* - source session, end of data area column

*dr* - destination session, start of data area row

*dc* - destination session, start of data area column

All the above start and end options must be specified for each area to be copied. These options must be delimited by space or comma (as in the other options). Up to 5 areas may be specified.

**Interactive COPY** If start and end positions are not specified, the COPY command provides an interactive display of the last screen captured with all fields protected. Data to be copied can be selected by using the cursor control and PF keys.

A comprehensive guide to using the interactive COPY command is provided in the Technical Reference Manual, *Chapter 6 - Copying data between sessions*.

An example of an interactive COPY command is as follows:

```
COPY TSO1 TSO2 (BOX F
```

This displays the last TSO1 screen captured with all its fields protected. Data to be copied is in box format and the start and end positions are selected with the cursor control and PF keys. On completion of the COPY command, the session being copied from will be returned.

**Notes** If an interactive COPY command is in progress and awaiting user response, 60 seconds will elapse before the command is timed out.

At any time in an interactive COPY command session, pressing the <PA1> key will terminate the command and return the terminal to MULTSESS/HPO.

Other keys have neither function nor effect during a COPY command session.

Attempting to copy data between different screen sizes may cause unpredictable results.

## DEFINE

**Description** The DEFINE command is used for on-line updating of the MULTSESS/HPO Application Definition Table. Please refer to *Chapter 3 - Defining applications to MULTSESS/HPO* in the User Installation Manual for more details.

**Command class** C

**Minimum abbreviation** DEF

**Format** **DEFINE member**

where:

**member** must be the name of a valid member residing in the dataset referred to by the APPLIDS DD statement in the JCL used to initialize MULTSESS/HPO.

The member will be verified for syntax before any update is attempted.

## DIRECT

**Description** The DIRECT command is used for on-line updating of the MULTSESS/HPO system directory.

**Command class** C

**Minimum abbreviation** DIRECT

**Format** **DIRECT member**

where:

**member** must be the name of a valid member residing in the dataset referred to by the DIRECT DD statement in the JCL used to initialize MULTSESS/HPO.

The member will be verified for syntax before any update is attempted.

## DISCONN

**Description** This command is used to disconnect your userid from a terminal and return the terminal to the logon screen. All active sessions are preserved.

You may log on at the same or another compatible terminal to continue your work where you left off.

It is always good practice to disconnect when leaving your terminal, even for a short time, in order to prevent unauthorized access to your sessions.

If you require to disconnect a userid other than your own, refer to DISCONN *userid* below.

**Command class** G

**Minimum abbreviation** DISC

**Format** DISCONN

**Description** As above, but disconnects a user other than yourself.

**Command class** C

**Minimum abbreviation** DISC

**Format** DISCONN *userid*

where:

***userid*** is the userid of the user to be disconnected.

**Note** To force a user off MULTSESS/HPO, refer to the FORCE command on page 2.23.

## DISPLAY PANEL

**Description** The DISPLAY command is used to display a User Menu Panel without switching into user panel mode.

After viewing, press <Enter> to return to your normal MULTSESS/HPO screen display. In this case, *panelname* is the name of the panel to be displayed.

**Command class** C

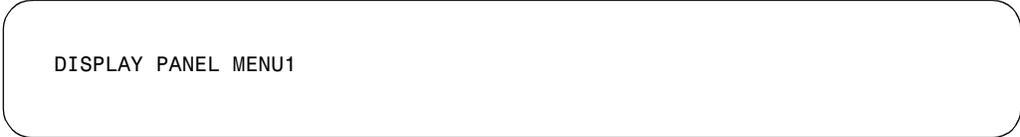
**Minimum abbreviation** DISP PAN

**Format** **DISPLAY PANEL *panelname***

where:

***panelname*** is the name of the panel to be displayed.

**Example**



```
DISPLAY PANEL MENU1
```

**Note** This facility is of particular interest during panel development.

## DISPLAY VPOOLS

**Description** The DISPLAY VPOOLS command is used to display the status of the ACBs in the virtual terminal pools.

**Command class** C

**Minimum abbreviation** DISP VP

**Format** **DISPLAY VPOOLS *poolname***

where:

***poolname*** may be a generic name (using \* to represent all with same root) to list a single, several or all VPOOLS.

In addition to this, the plus (+) sign can be used to indicate character positions to be ignored when finding a match for the specified VPOOL(s).

The output will list the ACBs in the requested pool(s) and indicate whether each ACB is free for use. The userid will be shown for allocated ACBs.

### Examples

```
DISPLAY VPOOLS POOL123
DISPLAY VPOOLS POOL*
DISPLAY VPOOLS POOL++C*
```

## ECHO

### Description

The ECHO command calculates the average delay times for a terminal. Patterns of data of the specified size(s) are sent from MULTSESS/HPO to the terminal in order to provide measurement of the network transmission delay time. The RESPONSE command may be used to measure the application turnaround time. The results show the average delays due to network transmission time and internal VTAM delays.

### Command class

G

### Minimum abbreviation

E

### Format

**ECHO**  
**ECHO samples**  
**ECHO samples rusize1 rusize2**

where:

- samples** is the number of times the data is to be echoed to the terminal, in the range 1 to 500, in increments of 1. If omitted, or if a \* is entered, the **default** is **100**.
- rusize1** is the size in characters of the first sample, in the range 0 to 9999, rounded down to the nearest 10. If omitted, or if a \* is entered, the **default** is **50**.
- rusize2** is the size in characters of the second sample, with the same range as **rusize1**, but with a **default** of **100**. Note that **rusize1** and **rusize2** must be different.

### Examples

```
ECHO 200 250 700  
E * 1000
```

The first example sends a 250 character packet to a terminal and acknowledges that the terminal has received them 200 times, computes the average time and repeats the whole operation with a 700 character packet.

The second example calculates the average on 100 sends of packets of 1000 and 100 characters respectively.

## EXIT

**Description** This command can be used to enable or disable a user exit, or to find out about the status of a user exit. To load in a new user exit, use the LOAD command.

**Command class** A

**Minimum abbreviation** EXIT

**Format**

```
EXIT ENABLE n
EXIT DISABLE n
EXIT QUERY n
```

where:

<b>ENABLE</b>	enables the specified exit(s).
<b>DISABLE</b>	disables the specified exit(s).
<b>QUERY</b>	gives the status on the specified exit(s).
<b>n</b>	is the number of the user exit, or * for all.

**Note** This command is not fully supported in User Panel Mode.

## FIX

**Description** This command is used to display data about fixes applied to your version of MULTSESS/HPO.

**Command class** A

**Minimum abbreviation** FIX

**Format** FIX  
FIX *nnn*

where:

*nnn* is the numeric value of the fix whose status you want to display.

MULTSESS/HPO will indicate whether the fix has been applied or not. If *nnn* is omitted, MULTSESS/HPO will display a matrix indicating, with a '1' all applied fixes, and with a '-' all fixes not applied.

### Example

```
MS0098 - FOLLOWING FIXES HAVE BEEN APPLIED TO MULTSESS:
      0 1 2 3 4 5 6 7 8 9          0 1 2 3 4 5 6 7 8 9
-----
30 | 1 - - - - - - - - -          31 | - - - - - - - - -
32 | - 1 - - - - - - - 1          33 | - - - - - - - - -
34 | - - - - - - - - -          35 | 1 1 1 1 1 1 - 1 1 1
36 | 1 1 1 1 1 1 1 1 1 1          37 | 1 1 - 1 1 - - - - -
38 | - - - - - - - - -          39 | - - - - - - - - -
40 | - - - - - - - - -          41 | - - - - - - - - -
42 | - - - - - - - - -          43 | - - - - - - - - -
44 | - - - - - - - - -          45 | - - - - - - - - -
46 | - - - - - - - - -          47 | - - - - - - - - -
48 | - - - - - - - - -          49 | - - - - - - - - -
```

**Note** This command is not fully supported in User Panel Mode.

## FORCE

### Description

The FORCE command is used to force a user off MULTSESS/HPO. Any sessions that the user has are automatically terminated and associated control blocks/working storage are freed.

This command can also be used to selectively terminate single sessions for a user by referencing the session alias.

### Command class

**B**  
or  
**A** (for FORCE ALL)

### Minimum abbreviation

FORCE

### Format

**FORCE** *userid*  
**FORCE** *userid alias*  
**FORCE** **ALL**

### Example 1

```
FORCE USER1
```

Terminates all sessions of USER1, deletes the control block and logs USER1 off.

### Example 2

```
FORCE USER1 TSO1
```

Terminates USER1's session alias TSO1.

The session alias names for a user can be displayed using the 'Q userid ALL' command. It can also be used to terminate all users and sessions at one time, excluding the issuing user, using example 3 below.

### Example 3

```
FORCE ALL
```

Terminates all users, all sessions.

### Note

It is not allowed to force oneself off. Use the TERMSESS command to terminate your own sessions.

To disconnect a userid from a terminal, refer to the DISCONN command.

## HELP

**Description** The HELP command is used to display information regarding the use of MULTSESS/HPO, its commands and their relevant parameters and any MULTSESS/HPO messages.

**Command class** G

**Minimum abbreviation** H

**Format** **HELP command**  
**HELP command function**  
**HELP MSnnnn**

where:

**command** specifies the fully qualified name of the command for which information is required.

**function** is any parameter of the command.

**MSnnnn** is any valid MULTSESS/HPO message number.

**Note** If **HELP HELP** is specified, the commands available for your command class will be displayed.

## IMAGE

**Description** Allows an application screen to be passed between users. Further options are available to allow this image to be viewed, received or deleted.

**Command class** G

**Minimum abbreviation** I

**Format** IMAGE DELETE  
IMAGE GET  
IMAGE OFF  
IMAGE ON  
IMAGE QUERY  
IMAGE SEND  
IMAGE VIEW

where:

<b>DELETE</b>	deletes the received screen image.
<b>GET</b>	retrieves an image from another user. Available to authorized users only.
<b>OFF</b>	disables screen receive.
<b>ON</b>	enables screen receive.
<b>QUERY</b>	displays screen details.
<b>SEND</b>	sends a screen image.
<b>VIEW</b>	views a screen image at the terminal.

These formats are individually described on the following pages.

## IMAGE DELETE

**Description** The screen image currently queued to you is deleted. An image sent to you is kept until explicitly deleted.

Whilst you have a screen image queued to you, that image is protected from being overwritten by a subsequent IMAGE SEND.

You should therefore issue IMAGE DELETE when you have finished with an image, to enable other users to send subsequent images to you.

Logging off MULTSESS/HPO automatically deletes a stored image you may have, whilst disconnection retains a stored screen image.

**Command class** G

**Minimum abbreviation** I D

**Format** IMAGE DELETE

## IMAGE GET

**Description** This option is available for authorized users, e.g. Help Desk personnel, to enable them to retrieve a screen image from another user.

Certain users, for example those in User Menu Panel mode who have no command input area, may be unable to issue an IMAGE SEND command.

**Command class** C

**Minimum abbreviation** I G

**Format** **IMAGE GET *userid alias***

where:

***userid*** is the userid of the user from whom you wish to retrieve the image.

***alias*** is the alias of the session containing the screen.

**Note** For integrity reasons, you will not be allowed to get a screen image from a session that a user is actively using.

## **IMAGE OFF**

**Description** This is the default state for all users and indicates that the user is not willing to accept screen images sent to him from another user.

For the reasons outlined under the IMAGE ON option, it is recommended that IMAGE OFF should be the normal state for all users.

**Command class** **G**

**Minimum abbreviation** I OF

**Format** **IMAGE OFF**

## **IMAGE ON**

**Description**

Indicates that you are willing to receive a screen image targeted to you from another user.

For security reasons, it is advised that all users normally do not run with IMAGE ON, but only turn the option on when they are expecting to receive an image from another user. This will prevent screen images being accidentally misdirected due, for instance, to the sending user mistyping the target userid.

**Command class**

**G**

**Minimum abbreviation**

I ON

**Format**

**IMAGE ON**

## IMAGE QUERY

<b>Description</b>	<p>The following details of the transmitted screen image currently queued to you will be displayed:</p> <ul style="list-style-type: none"><li>• the date and time the image was taken</li><li>• the size of the image (lines x columns)</li><li>• the sending user's userid</li><li>• the sending user's alias name for the application which produced the image</li></ul> <p>In addition your current image receive setting (on/off) is displayed.</p>
<b>Command class</b>	<b>G</b>
<b>Minimum abbreviation</b>	I Q
<b>Format</b>	<b>IMAGE QUERY</b>
<b>Note</b>	If an image has been forwarded to you by an intermediate user, the statistics reported will be relevant to the original image save.

## IMAGE SEND

**Description** A copy of the current screen image from the session designated by *alias* is sent to the designated user.

**Command class** G

**Minimum abbreviation** I S

**Format** **IMAGE SEND *userid alias***  
**IMAGE SEND *userid* IMAGE**

where:

***userid*** is the destination userid  
***alias*** is the alias of the session containing the screen  
**IMAGE** by specifying the keyword IMAGE in place of the session *alias*, you may forward to another user a copy of an image previously sent to you.

For increased security, and to prevent accidental misdirection due to a typing error, the screen image will only be copied to a user who has indicated a willingness to receive it by use of the IMAGE ON command and does not have a previous image still queued to him.

**Note** By specifying your own userid on an IMAGE SEND command, you may save a screen image from one of your own sessions for later viewing.

## IMAGE VIEW

**Description** The screen image sent to you by the IMAGE SEND command (or, for authorized users, retrieved by you using the IMAGE GET command), will be displayed on your terminal.

**Command class** G

**Minimum abbreviation** I V

**Format** **IMAGE VIEW**

**Notes** After viewing, press <Enter> to return to your normal MULTSESS/HPO screen. The image is NOT automatically lost after viewing. You may return to re-view the image at any time until you issue IMAGE DELETE or LOGOFF from MULTSESS/HPO.

Before attempting to display the stored screen image, a check is made to determine that your terminal is capable of successfully displaying the image, e.g. a model 4 screen may display any 80 column image up to 43 lines long, but not an image sent from a model 5 terminal in 27x132 mode.

The size of the stored image may be ascertained with the IMAGE QUERY command. If the image is not suitable for display on your current terminal, and provided you have no application sessions active, you may disconnect from MULTSESS/HPO and reconnect on a suitable terminal to view the image.

## LLOAD

**Description** The LLOAD command allows the dynamic loading of any MULTSESS/HPO logo screen that was created or modified after MULTSESS/HPO initialization. The logo will be read into storage and all terminals currently displaying the logo will be refreshed.

**Command class** C

**Minimum abbreviation** LL

**Format** **LLOAD name**

where:

**name** is the name of a logo screen that exists as a member of the dataset referred to by the LOGO DD statement in the JCL file used to initialize MULTSESS/HPO.

**Notes** The logo should contain 22 lines of 80 columns.

The current value of the 'hot news' may be included in the logo by putting the following variables in column 2 of any line:

```
&SYSNEWS1  
&SYSNEWS2  
&SYSNEWS3
```

This permits the placing of an attribute variable in front of the 79 characters making up the news line.

## LOAD

**Description** The LOAD command is used to dynamically load a new copy of any MULTSESS/HPO command or subroutine; this allows the testing of modified code without stopping and restarting MULTSESS/HPO.

**Command class** A

**Minimum abbreviation** LOAD

**Format** **LOAD module**

where:

**module** is the MULTSESS/HPO command or subroutine to be loaded.

### Example

```
LOAD QUERY
```

which loads a new version of the QUERY command.

**Notes** This command should only be used under advice from your local support office. All MULTSESS/HPO modules may be dynamically reloaded, except:

```
LOAD  
MULTSESS  
TPCARD  
TPCPAPPL  
TPCPDATA  
TPCPOPER  
TPCP1  
TPECMD  
TPIDLE  
TPINIT  
TPSTIMER  
TPSUBT  
TPVTAMP
```

## LOGOFF

<b>Description</b>	This command terminates your session with MULTSESS/HPO and returns your terminal to VTAM or NCI/XF if applicable.
<b>Command class</b>	<b>G</b>
<b>Minimum abbreviation</b>	LOG
<b>Format</b>	<b>LOGOFF</b>
<b>Notes</b>	<p>LOGOFF will be rejected if sessions are still active with other VTAM applications.</p> <p>If you wish to leave MULTSESS/HPO temporarily and keep your sessions active, use the DISCONN command.</p> <p>The logoff request will be rejected if messages from other users are queued.</p>

## LOGON

<b>Description</b>	This command starts up communication with MULTSESS/HPO.  Normally, you will never need to use this command, since the LOGON command is implicit when you give your userid on the logo screen. However the command is still supported for use when passing CINIT logon data.
<b>Command class</b>	<b>G</b>
<b>Minimum abbreviation</b>	L
<b>Format</b>	<b>LOGON</b> <b>LOGON <i>userid</i></b> <b>LOGON <i>userid password</i></b> <b>LOGON <i>userid password newpassword</i></b>
<b>Notes</b>	If <i>userid</i> is omitted and TERMINAL-LOGON=YES startup option was specified, the terminal name will be allocated as default userid. You may then be prompted to enter a password.  If you specify <i>newpassword</i> , you will be prompted to retype it to ensure that you have not mistyped it.  RACF or ACF2 defined users may get a message stating that their current password has expired. In this case you will be prompted to supply a new password that, when specified, <b>must</b> be coded in all future logons.  If a proprietary security system is in use, it is possible to supply a new security password during logon processing.

## MESSAGE

### **Description**

The MESSAGE command is used to send a message to a user or group of users.

The session of a user who receives a message using this command is not interrupted until an Enter, a PF or a PA key is pressed. At this point the terminal is returned to MULTSESS/HPO mode and the messages are displayed.

The data entered before the Enter, PF or PA key will be sent on to the application.

### **Command class**

**G**

### **Minimum abbreviation**

**M**

### **Format**

**MESSAGE userid message-text**

where:

**userid** is the destination userid of the message. Generic names (using \*) are allowed with the exception of \* by itself, which sends the message only to yourself.

**message-text** is the text of the message.

### **Example**

```
MESSAGE USER07 PROGRESS MEETING AT 14:00
M TECH* MESSAGE TO ALL TECHNICAL USERS
```

### **Note**

For a description of the MESSAGE ALL command, refer to the next page.

## MESSAGE ALL

**Description** A message is sent to every MULTSESS/HPO user.

The session of a user who receives the message is not interrupted until an Enter, a PF or a PA key is pressed. At this point the terminal is returned to MULTSESS/HPO mode and the messages are displayed.

The data entered before the Enter, PF or PA key will be sent on to the application.

**Command class** C

**Minimum abbreviation** M ALL

**Format** **MESSAGE ALL *message-text***

where:

***message-text*** is the text of the message.

### Example

```
MESSAGE ALL MAINTENANCE SHUTDOWN AT 14:00
```

## **MORE**

<b>Description</b>	Displays the screen buffer area and remains in MORE status for 30 seconds, or until the <Enter> key is pressed.  This command enables Dynamic Panel users to view any messages, or information in the screen buffer area.
<b>Command class</b>	<b>G</b>
<b>Minimum abbreviation</b>	MORE
<b>Format</b>	<b>MORE</b>
<b>Note</b>	This command is not supported in User Panel Mode.

## MSGAPP

### **Description**

The MSGAPP command is used to send a message to specific users of specific applications.

Unlike the MESSAGE command, MSGAPP immediately interrupts a receiving user, even if the user is not currently displaying the session. The terminal immediately returns to MULTSESS/HPO mode in order to display the message. Any data that has been typed by the user before the interruption is saved. The user will return to the interrupted session when any key is pressed.

### **Command class**

C

### **Minimum abbreviation**

MSGA

### **Format**

**MSGAPP *applid* *userid* *message-text***

where:

- applid*** is the destination application of the message. Generic names are permitted.
- userid*** is the userid of a user of *applid* who is to receive the message. Generic userids are permitted.
- message-text*** is the text of the message.

### **Example**

```
MSGA TSOA TSG1 SYSTEM SHUTDOWN IN 5 MINUTES
MSGAPP TSO* TSG* ALL TSO SYSTEMS CLOSING NOW
```

## PANEL

**Description** The PANEL command is used for invoking Dynamic Panel mode, exiting from Dynamic Panel mode, or invoking a user panel.

**Command class** G

**Minimum abbreviation** PAN

**Format**

**PANEL OFF**  
**PANEL ON**  
**PANEL *name***  
**PANEL PFKSET**

where:

<b>OFF</b>	ends Dynamic Panel mode.
<b>ON</b>	invokes Dynamic Panel mode.
<b><i>name</i></b>	invokes a user panel.
<b>PFKSET</b>	assigns PFKs to Dynamic Panel.

These formats are individually described on the following pages.

## PANEL OFF

<b>Description</b>	Terminates Dynamic Panel mode, returning the MULTSESS/HPO user to basic mode. All sessions are maintained and can still be accessed via the aliases that MULTSESS/HPO assigned to them.  On returning to basic mode, MULTSESS/HPO will automatically reinstate any PFKs set before invoking panel mode.
<b>Command class</b>	<b>G</b>
<b>Minimum abbreviation</b>	PAN OFF
<b>Format</b>	<b>PANEL OFF</b>
<b>Note</b>	PANEL OFF will not be honored for a user in User Panel mode.

## PANEL ON

**Description** The PANEL ON command invokes MULTSESS/HPO Dynamic Panel mode.

**Command class** G

**Minimum abbreviation** PAN

**Format**

**PAN**  
**PAN ON NOMSG**  
**PAN ON NOEXIT**  
**PAN ON NOPFK**  
**PAN ON NOUPDATE**  
**PAN ON NOMSG NOEXIT NOPFK NOUPDATE**

where any of the following parameters, in any order, can be specified:

**NOMSG** Error messages from MULTSESS/HPO will be suppressed. Line 24 of the panel will still be used to display messages from other users and responses to QUERY commands. If not specified then error messages from MULTSESS/HPO will be displayed either on line 24 of the Dynamic Panel, or in the scrollable message area if more than one line long.

**NOEXIT** Exit from Dynamic Panel mode is not permitted. If not specified, then exit from Dynamic Panel mode is permitted with the PANEL OFF command.

**NOPFK** No PF keys will be assigned to the applications, but PF keys 7 and 8 will be assigned to the scrolling commands. If not specified then PF keys will be assigned to the first 24 applications on the Dynamic Panel, but no PF keys will be assigned to the scrolling commands

**NOUPDATE** All PFK fields are protected and cannot be overtyped by the user.

**Notes** When in Dynamic Panel mode, a PANEL ON command can still be issued, in order to change the characteristics of the Dynamic Panel. For example:

PANEL ON NOMSG

could be issued from within the Dynamic Panel in order to suppress MULTSESS/HPO messages. From within Dynamic Panel mode, the following four options may be specified as parameters in the PANEL ON command:

NOMSG, MSG, NOUPDATE, NOEXIT

## **PANEL name**

**Description** Invokes an installation defined panel.

**Command class** **G**

**Minimum abbreviation** PAN name

**Format** **PANEL name**  
**PANEL name MSGON**  
**PANEL name MSGOFF**

where:

- |               |  |
|---------------|--|
| <b>name</b>   | is the name of the user panel to be invoked.   |
| <b>MSGON</b>  | Messages from MULTSESS/HPO will be displayed to the user in a scrollable message area (the 5 lines following the last panel line defined by the user). |
| <b>MSGOFF</b> | Messages from MULTSESS/HPO will be suppressed. The 5 line message area is not used.  |

## PANEL PFKSET

**Description** The PANEL PFKSET command may be used to set the PFKs assigned in Dynamic Panel mode.

**Command class** **G**

**Minimum abbreviation** PAN PFK

**Format** **PANEL PFKSET up down app1 ..... appn**

where:

- up** is the number of the PFK to be assigned to the Scroll Up field. A value of 0 will result in no PFK being assigned.
- down** is the number of the PFK to be assigned to the Scroll Down field, 0 for no PFK.
- app1** is the number of the PFK to be assigned to the first application on the Dynamic Panel, 0 for no PFK.
- appn** is the number of the PFK to be assigned to the nth application (0 for no PFK).

**Notes** If too many parameters are specified for the number of applications, the excess PFKs will be ignored.

If too few parameters are specified for the number of applications, the remaining applications will remain unchanged.

This command can only be used whilst in Dynamic Panel mode and cannot be used if PANEL ON NOUPDATE has been previously specified.

## PLOAD

**Description** This command is used to dynamically reload user menu panels. The requested menu panels will be reloaded from the PDS member pointed to by the PANELS DD statement.

**Command class** C

**Minimum abbreviation** PL

**Format** **PLOAD ALL**  
**PLOAD *panelname***

where:

**ALL** indicates that all panels in the dataset should be loaded.

***panelname*** is the name of a panel to be loaded.

## PRINT

### Description

The print command is used to take a hard copy snapshot of an application screen image. The image is passed to EXIT04. The final processing of the screen image is optional and depends on your installation. You should contact your MULTSESS/HPO administrator for further details.

See note below regarding the distributed exit EXIT04 and sample exit TPX04S13. The format of the PRINT command (below) is based on the assumption that the distributed sample TPX04S13 is present in the load library as TPEXIT04.

### Command class

G

### Minimum abbreviation

P

### Format

#### PRINT code alias destination

where:

**code** is a one character option code which is passed to TPEXIT04. Three options are supported as follows:

**F** the screen image will be written to a file called MULTSESS.PRINT.userid. If a file of that name is already cataloged or exists then the image will be appended to the end of the file. If necessary a new file will be created. The newly created file will not be cataloged. Other file characteristics are:

UNIT=user defined

DCB=(LRECL=133,BLKSIZE=133,RECFM=FBA)

**S** the screen image is passed to the JES2 spool for output processing. The jobname and destination will correspond to the MULTSESS/HPO jobname

**V** the screen image will be passed to a local VTAM printer. The printer id can be specified in EXIT04, or as an additional third parameter along with other options

**alias** is the alias of the screen image.

**destination** specifies either the VTAM printer id when option V is selected or SYSOUT remote destination (DEST=) when option S is selected.

### Examples

```
PRINT F tsoterm
P V tsoterm print04
```

The default is **PRINT F lastalias** (where **lastalias** is alias of the last session accessed).

### Note

The distributed EXIT04 is based on sample exit TPX04S13 and has several hard coded options that may require customizing (e.g. output dataset name prefix, output dataset size, output volume id, etc.). Refer to TPX04S13.

For further information on exits consult the MULTSESS/HPO Customization Reference Manual, *Chapter 5 - User exits*.

## PROFILE

**Description** The PROFILE command is used to execute, re-execute or list a profile member.

**Command class** G

**Minimum abbreviation** PROF

**Format** PROFILE  
PROFILE *name*  
PROFILE LIST  
PROFILE EXECUTE

where:

- name** executes the named profile member.
- LIST** lists your last used profile. This may be the profile designated in your MULTSESS/HPO directory entry, or that named on your last 'PROFILE *name*' command.
- EXECUTE** re-executes your last used profile. This may be the profile designated in your MULTSESS/HPO directory entry, or named on your last 'PROFILE *name*' command.

**Note** If no parameters are specified, a default of EXECUTE is assumed.

## QUERY (command class G only)

**Description** The QUERY command is used to display system-oriented information.

**Command class** G

**Minimum abbreviation** Q

**Format**

**QUERY \***  
**QUERY ACTIVE**  
**QUERY CMDCHAR**  
**QUERY CONSESS**  
**QUERY MSKEY**  
**QUERY NAMES**  
**QUERY NEWS**  
**QUERY PFK**  
**QUERY SESSCHAR**  
**QUERY SESSION**  
**QUERY TERMINAL**  
**QUERY TIME**  
**QUERY USERS**  
**QUERY *userid***

where:

**\*** returns your userid and terminal name, together with a list of all the applications you are authorized to have sessions with. An indication of the requirement for a VTERM is also displayed, along with a list of VTERMs available for use.

**ACTIVE** gives a list of the userids connected to MULTSESS/HPO.

**CMDCHAR** displays the command separation character.

**CONSESS** displays the number of concurrent sessions you are allowed.

**MSKEY** displays the MULTSESS/HPO key setting.

**NAMES** returns the names of all users using MULTSESS/HPO together with terminal node name and the number of sessions they have.

**NEWS** displays the current news lines.

**PFK** displays the Program Function Key settings for your terminal. Only the PFKs that are set will be displayed. A specific key may be displayed by appending the key number, for example:

Q PFK6

- SESSCHAR** displays the session switching character for your userid, together with any options, for example:
- KEEP/NOKEEP  
AUTON/AUTOFF
- SESSION** displays the name and alias for all active sessions, plus an indication whether any data has been received since you last referenced the session.
- By specifying an application name, information may be obtained concerning which users are currently in session with that application. The name may be either specific or generic, for example:
- Q SESSION TSO  
Q SESSION TS\*
- TERMINAL** displays the VTAM node name of your terminal.
- TIME** displays the current date and time.
- USERS** displays the number of users connected and logged on to MULTSESS/HPO.
- userid*** is any valid user currently connected to MULTSESS/HPO. If the user is logged on, the VTAM nodename will be displayed. If he is disconnected, keyword DISC will accompany the userid.

If no parameters are given, the command defaults to Q SESSION.

**Note**

A userid in session with a particular application will only be listed once, irrespective of how many sessions the user has with that application.

**QUERY** (command class B only)

**Description** The QUERY command is used to display system-oriented information.

**Command class** B

**Minimum abbreviation** Q

**Format** **QUERY MAXUSERS**  
**QUERY NETWORK**  
**QUERY TASKS**  
**QUERY *userid* ALL**  
**QUERY *userid* \***

where:

**MAXUSERS** displays the current setting of the MAXIMUM USERS parameter.

**NETWORK** gives an overview of the network, displaying each application plus the number of sessions users have with each.

**TASKS** displays the number of subtasks currently required plus the highest recorded number of subtasks ever required to perform the tasks of MULTSESS/HPO.

This figure gives an idea of the amount of work MULTSESS/HPO is currently handling including its own housekeeping tasks.

***userid* ALL** as for Q SESSION, but for another user.

***userid* \*** as for Q \*, but for another user.

## QUERY TRANSACT

**Description** The query command is used to display system-oriented information.

**Command class** A

**Minimum abbreviation** Q TRANS

**Format** **QUERY TRANSACT**

where:

**TRANSACT** displays the number of terminal and application transactions handled since MULTSESS/HPO initialization. This figure gives an indication of how busy your network is and is printed on the console file at shutdown.

## RECALL

**Description**

The recall command is used to return the last command entered to the input line for subsequent amendment and re-entering. Its use is for users working with keyboards not supporting the PA3 key. In such cases it would be normal to set a PFK IMMEDIATE to handle recall operations.

The last 3 commands entered are available for recalling and may be re-entered with or without modification.

**Command class**

**G**

**Minimum abbreviation**

RECALL

**Format**

**RECALL**

**Examples**

```
SET PFK5 IMM RECALL
```

**Notes**

Certain commands perform internal stacking, for example RUN and PROFILE. In such cases, the RECALL command may not recall the expected command.

This command is not supported in User Panel Mode.

## RESPONSE

### **Description**

The response command is used to display information about the response times for a specified session, or all sessions, currently active for your userid. The aggregate response is a running average and gives an indication of whether your responses are getting better or worse. Usually if the aggregate is higher than the average, response times are getting worse.

### **Command class**

**G**

### **Minimum abbreviation**

RESP

### **Format**

**RESPONSE LIST**  
**RESPONSE LIST *alias***  
**RESPONSE CLEAR**  
**RESPONSE CLEAR *alias***

where:

- LIST** displays the response time information for the specified session, or all sessions. Last response time, average response time, aggregate response time, highest response time and the time at which the highest response time occurred are displayed.
- alias*** is the alias you assigned to this session via the SESSION command. If omitted, ALL is assumed.
- CLEAR** clears the accumulators used in calculating the response times for the specified session, or all sessions.

### **Note**

All figures are calculated from the time at which the session started or RESPONSE CLEAR was issued. The total response time is the application response time + the x-domain network time.

## RUN

**Description** The RUN command is used to initiate an ATP script on an already established session.

**Command class** G

**Minimum abbreviation** RUN

**Format**  
**RUN script alias**  
**RUN script alias trace**  
**RUN script alias RECON**  
**RUN script alias RECON trace**

where:

- script** is the name of the script to be invoked.
- alias** is the alias name of the session on which to run the script.
- trace** during script development, you may wish to trace the execution of your script. This option is available irrespective of the status of the MULTSESS/HPO and ATP application trace options. Use of this operand will result in trace records being written to the ATP LOG file. Three trace levels are available. The values shown are cumulative. To select more than one option, specify the sum of their individual values:
- 1 - All data received by ATP from an application will be printed in hexadecimal and EBCDIC.
  - 2 - All data sent by ATP on behalf of the terminal will be printed in hexadecimal and EBCDIC.
  - 4 - The statement number of the script currently being executed and the total number of statements executed so far will be printed. The statement number is relative to the start of the script, including comment cards.
- RECON** indicates that you wish to be immediately switched into the named session. If omitted, you will remain in MULTSESS/HPO mode. The script will continue execution in the background, leaving you free to continue with other work.

## SESSION

**Description** The SESSION command is used to initiate a session with an application, or to return to a previously created session.

**Command class** G

**Minimum abbreviation** SESS

**Format** **SESSION *appln alias vterm logm script (cinit***

where:

***appln*** is the application name to which you wish to be connected.

***alias*** is a unique name that can be used to refer to this particular session. The ***alias*** is the name by which MULTSESS/HPO will reference a session. This feature allows multiple sessions to the same application. Alias 'ALL' is **not** allowed.

***vterm*** is the name of the virtual terminal to be used for this particular session. This field is only required if you need to override the default specified in your MULTSESS/HPO directory entry.

***logm*** is to be used when initiating a session with the specified application using the specified ***vterm***. This parameter may only be specified if a ***vterm*** is also specified. If not present, the ***logm*** (logmode) specified in the directory for this ***vterm***/application combination will be used. If not specified here or in the directory, MULTSESS/HPO will use the logmode from the terminal-to-MULTSESS/HPO session. For 'connect' type applications, the blank logmode (DLOGMOD) will be used if ***logm*** is unspecified.

***script*** is the name of an ATP script to be invoked at session initiation.

***(cinit*** can be any valid CINIT logon data that will be accepted by an application during VTAM connection, normally a userid and password.

**Note** All the parameters are both optional and positional. A \* may be entered in place of the *alias*, *vterm*, *logm* and *script* operands if you wish to omit these operands and enter a following positional operand.

continued ....

### Example 1

```
SESS TSO I VTERM1 D4C32782 TSOSCRIP (LOGON DATA)
```

### Example 2

```
SESS IMS I1 * * IMSCRIPT
```

### Notes

For ease of use it is normal to set your PFKs to issue the SESSION command, thus simplifying the switching of sessions.

When working in MULTSESS/HPO dynamic panel mode the SESSION command is no longer required.

However, the facility for passing CINIT data to applications at session creation is still supported.

### Special abbreviated forms of SESSION

When reconnecting to a previously established session, an abbreviated form of the SESSION command may be used:

```
SESSION alias
```

The full version of this command may be used if desired; for instance, if a PF key has been set for session establishment and reconnection.

To ensure that a session request is actioned only as a request to reconnect to an existing session and will not start a new session, code a ' . ' in place of the *appln* parameter:

```
SESSION . alias
```

In this case you will be reconnected to session *alias* if a session of that name is active. If no session of that name is active, the command will not be actioned and NO error message will be issued.

To reconnect to the last session that you accessed, the alias name may be omitted:

```
SESSION
```

This unqualified version will cause the following command to be internally generated:

```
SESSION . lastalias
```

This form of the command is particularly helpful when used in conjunction with the ATTN command. A PFK could be set to send an attention interrupt to the last referenced application and switch the user back into the session:

```
SET PFKn IMM ATTN//SESS
```

where the / character is the current command separation character.

## SET

**Description** The set command is used to set system-oriented information.

**Command class** G

**Minimum abbreviation** SET

**Format**

- SET CMDCHAR**
- SET DUMP**
- SET EDS**
- SET MAXUSERS**
- SET MSKEY**
- SET NEWS**
- SET NEWSFILE**
- SET NIM**
- SET NPM**
- SET PFK**
- SET SDWA**
- SET SESSCHAR**

where:

- CMDCHAR** sets the command separation character.
- DUMP** specifies whether a dump should be produced in the event of a subtaskabend.
- EDS** sets the Extended Data Stream on or off, thus enabling or disabling the reverse video display in dynamic panel mode.
- MAXUSERS** sets the maximum number of users allowed to use MULTSESS/HPO at any one time.
- MSKEY** sets the MSKEY, which returns the user to MULTSESS/HPO mode.
- NEWS** sets the Hot News display with text entered with the command.
- NEWSFILE** sets the Hot News with news read from the news file.
- NIM** enables, disables or modifies the startup option NIMR-NIM=PRODEST.
- NPM** enables and disables the NPM interface, and specifies whether tracing is on or off.
- PFK** sets a Program Function key (outside dynamic panel mode).
- SDWA** requests that the SDWA storage be kept or deleted if a subtask abends whilst processing a subcommand (for the user issuing this command).
- SESSCHAR** overrides the default session switching characteristics.

These formats are individually described on the following pages.

## SET CMDCHAR

**Description** This command sets the command separation character (CMDCHAR), the character used to separate multiple commands on the same line.

**Command class** **G**

**Minimum abbreviation** SET CMD

**Format** **SET CMDCHAR *char***

where:

***char*** is any alphanumeric character

**Example**

```
SET CMDCHAR ;
```

## SET DUMP

**Description** This command specifies whether a dump should be produced in the event of a subtask abend.

This option should only be used under advice from your local support office.

**Command class** A

**Minimum abbreviation** SET DUMP

**Format**  
**SET DUMP ON**  
**SET DUMP OFF**  
**SET DUMP ALL**

### Example 1

```
SET DUMP ON
```

Dumps are produced for a subtask abend that occurs while processing a subcommand for the user issuing the SET DUMP command.

### Example 2

```
SET DUMP OFF
```

No subtask dumps are produced.

### Example 3

```
SET DUMP ALL
```

Dumps are produced for subtask abends that occur whilst processing subcommands for any user.

## **SET EDS**

**Description** Sets the Extended Data Stream on or off, thus enabling or disabling the reverse video display in dynamic panel mode.

**Command class** **G**

**Minimum abbreviation** SET EDS

**Format** **SET EDS ON**  
**SET EDS OFF**

## SET MAXUSERS

**Description** This command is used to set the maximum number of users allowed to use MULTSESS/HPO at any one time. When specified this value overrides the MULTSESS/HPO internal defaults, or those specified at system initialization.

**Command class** B

**Minimum abbreviation** SET MAXU

**Format** **SET MAXUSERS *nnn***

where:

***nnn*** is a number between 1 and the maximum number of users permitted by the license agreement.

### Example

```
SET MAXUSERS 350
```

**Notes** When shutting down MULTSESS/HPO, new users can be prevented from logging on with a SET MAXUSERS 1 command, whilst current users can be informed of the impending shutdown.

The MVS console operator, designated as MULTOPER, is not considered as a user for the purposes of this command.

## SET MSKEY

**Description** Sets the MSKEY, the key which returns the user to MULTSESS/HPO mode.

**Command class** G

**Minimum abbreviation** SET MSK

**Format**

**SET MSKEY *char***  
**SET MSKEY PFK*nn***  
**SET MSKEY PAK*nn***  
**SET MSKEY ATTN**  
**SET MSKEY OFF**

where:

<b><i>char</i></b>	is any alphanumeric character
<b>PFK<i>nn</i></b>	defines the PFK as the MSKEY, removing it from application use.
<b>PAK<i>nn</i></b>	defines the PAK as the MSKEY, removing it from application use.
<b>ATTN</b>	defines the ATTN key as the MSKEY. The ATTN key will no longer act as the SESSCHAR.
<b>OFF</b>	removes the MSKEY definition.

## SET NEWS

**Description** Sets the Hot News for NEWS1, NEWS2 or NEWS3. The three lines of news are always displayed on the dynamic panel and may be displayed on the logo screen.

**Command class** B

**Minimum abbreviation** SET NEWS $n$

**Format**  
**SET NEWS1 *news-text***  
**SET NEWS2 *news-text***  
**SET NEWS3 *news-text***

where:

***news-text*** is the text of the news message.

### Example

```
SET NEWS2 Welcome to MULTSESS/HPO
```

**Note** If the logo screen is defined to hold the Hot News, you can use the LLOAD command to update the news display on terminals that display the logo screen.

## SET NEWSFILE

**Description** Sets the three lines of Hot News with news read from the news file. The three lines of news are always displayed on the dynamic panel and may be displayed on the logo screen.

**Command class** B

**Minimum abbreviation** SET NEWSF

**Format** SET NEWSFILE

**Note** If the logo screen is defined to hold the Hot News, you can use the LLOAD command to update the news display on terminals that display the logo panel.

## SET NIM

**Description** This command enables, disables or modifies the startup option NIMR-NIM=PROD/TEST (refer to *Chapter 5 - Pre-startup and startup options* in the MULTSESS/HPO User Installation Manual).

**Command class** B

**Minimum abbreviation** SET NIM

**Format** SET NIM ON  
SET NIM OFF  
SET NIM PROD  
SET NIM TEST

where:

- ON** enables the NIMR-NIM=PROD/TEST startup option. This starts the NIM receiver of MULTSESS/HPO that will contact the NC-NIM (either PROD or TEST) running in the same MVS
- OFF** disables the NIMR-NIM=PROD/TEST startup option. The NIM receiver of MULTSESS/HPO will not be started.
- PROD** this will override the setting of the NIMR-NIM=PROD/TEST field (if the field is not already set to PROD). This starts the NIM receiver of MULTSESS/HPO that will contact the NC-NIM running in the same MVS. The usual setting for the startup option is PROD (for normal production NC-NIM).
- TEST** this will override the setting of the NIMR-NIM=PROD/TEST field (if the field is not already set to TEST). This starts the NIM receiver of MULTSESS/HPO that will contact an alternative test NC-NIM running in the same MVS.

## SET NPM

### **Description**

This command sets the Network Performance Monitor (NPM) on and off, and when NPM is active, specifies whether tracing is required.

**Note:** For NPM to associate data for application sessions with a real terminal (reported as relay sessions), the NPM interface in MULTSESS must have been active continuously from the time that the user logged on or reconnected.

### **Command class**

A

### **Minimum abbreviation**

SET NPM

### **Format**

**SET NPM OFF**  
**SET NPM ON**  
**SET NPM TRACE**  
**SET NPM NOTRACE**

### **Examples**

```
SET NPM OFF
```

will stop the NPM interface.

**Note:** No further data for existing sessions will be reported as relay sessions associated with real terminals even if SET NPM ON is reissued.

```
SET NPM ON
```

will start the NPM interface.

**Note:** NPM cannot match a real terminal to data for sessions if the NPM interface has been inactive since the user logged on or reconnected, or since the session started (all users).

```
SET NPM TRACE
```

will start the NPM event trace facility within MULTSESS.

```
SET NPM NOTRACE
```

will stop the NPM event trace facility within MULTSESS.

## SET PFK

**Description** Allows a Program Function Key to be set outside of dynamic panel mode. There are 2 modes of defining PFKs: immediate and non-immediate. An immediate setting will result in the immediate processing of the key's contents when the key is depressed, whilst the non-immediate setting returns the contents to the input area for modification. If <PFK13> to <PFK24> are not defined, they are automatically set equal to <PFK1> to <PFK12>.

**Command class** **G**

**Minimum abbreviation** SET PFK

**Format** **SET PFK $n$  command-string**  
**SET PFK $n$  IMM command-string**

where:

**$n$**  is 1 to 24 inclusive.

**command-string** is a MULTSESS/HPO command or commands.

### Example

```
SET PFK3 IMM Q NAMES
SET PFK2 IMM TERM ALL;;WAIT 5;;LOGOFF
```

**Notes** These PFK settings are not relevant to dynamic panel mode.

It is often most convenient to set up these PFK settings in the user profile.

## SET SDWA

**Description**

This command requests that the SDWA storage be kept or deleted if a subtask abends whilst processing a subcommand for the user issuing the SET SDWA command.

This option should only be used under advice from your local support office.

**Command class**

**A**

**Minimum abbreviation**

SET SDWA

**Format**

**SET SDWA KEEP**  
**SET SDWA NOKEEP**

**Example 1**

```
SET SDWA KEEP
```

SDWA will be kept .

Can only be used if SET DUMP ON has been previously issued.

**Example 2**

```
SET SDWA NOKEEP
```

SDWA is deleted.

## SET SESSCHAR

**Description** This command is used to override the default session switching characteristics. For more details refer to *Different ways of switching between sessions* on page 1.12

**Command class** G

**Minimum abbreviation** SET SESSC

**Format**

**SET SESSCHAR *char***  
**SET SESSCHAR PAK*nn***  
**SET SESSCHAR PFK*nn***  
**SET SESSCHAR AUTON**  
**SET SESSCHAR AUTOFF**  
**SET SESSCHAR KEEP**  
**SET SESSCHAR NOKEEP**

where:

- |                     |   |
|---------------------|---|
| <b><i>char</i></b>  | is any alphanumeric character replacing the installation default.   |
| <b>PFK<i>nn</i></b> | defines the PFK as the SESSCHAR. If you want to send the PFK to the application and not have it interpreted as a SESSCHAR, pressing the PFK a second time will return you to the session and send the PFK to the application.   |
| <b>PAK<i>nn</i></b> | defines the PAK as the SESSCHAR. If you want to send the PAK to the application and not have it interpreted as a SESSCHAR, pressing the PAK a second time will return you to the session and send the PAK to the application.   |
| <b>AUTON</b>        | allows the jumping from one session to the next when the SESSCHAR or ATTN key is used. At the end of the chain the user may be returned to MULTSESS/HPO. Refer to <i>Chapter 2 - Switching between applications</i> in the Technical Reference Manual for more details. |
| <b>AUTOFF</b>       | resets the round-robin effect of AUTON.   |
| <b>KEEP</b>         | on reconnect to a session the switch character or MSKEY on the screen image will be kept.   |
| <b>NOKEEP</b>       | on reconnect to a session the switch character or MSKEY on the screen image will be removed.  |

### Example

```
SET SESSCHAR PFK2
SET SESSCHAR NOKEEP
SET SESSCHAR #
```

## SHUTDOWN

<b>Description</b>	<p>The SHUTDOWN command is used to terminate MULTSESS/HPO.</p> <p>Statistical information about transaction counts, compression ratios etc will be written to the console file before it is closed.</p>
<b>Command class</b>	<b>B</b>
<b>Minimum abbreviation</b>	SHUTD
<b>Format</b>	<b>SHUTDOWN</b> <b>SHUTDOWN IMMED</b>
<b>Notes</b>	<p>If the SHUTDOWN command is entered without the IMMED keyword, it will not be processed if other users are still logged on to MULTSESS/HPO, or if you still have active sessions. In these circumstances, a 'FORCE ALL' or 'TERMSESS ALL' must be issued as appropriate before reissuing the command.</p> <p>If SHUTDOWN IMMED is entered, MULTSESS/HPO will terminate immediately, even if users are still logged on or you still active sessions. This avoids problems if users have become non-forceable.</p> <p>During processing of a SHUTDOWN command, if MULTSESS/HPO finds that one of its subtasks had previously abended, a dump will be forced, thereby ensuring that all relevant storage is available for analysis.</p>

## STACK

**Description** This command is used to execute a set of predefined MULTSESS/HPO statements.

**Command class** **G**

**Minimum abbreviation** STACK

**Format** **STACK dataset member**

where:

**dataset** is the dataset in which the member exists.

**member** is the member containing the commands.

## START

**Description** The START command enables access to the specified applications previously disabled by the STOP command.

**Command class** C

**Minimum abbreviation** STAR

**Format** **START *applid***  
**START \***

where:

***applid*** is the name of the application to be started.

**\*** starts all applications.

## STOP

**Description** The STOP command disables access to the specified applications. When an application is stopped, all existing sessions with that application can optionally be terminated.

**Command class** C

**Minimum abbreviation** STOP

**Format**  
**STOP *applid***  
**STOP *applid* FORCE**  
**STOP \***  
**STOP \* FORCE**

where:

<b><i>applid</i></b>	is the name of the application to be stopped.
<b>FORCE</b>	forces all users off the application(s) immediately.
<b>*</b>	stops all applications.

## TERMCOND

**Description** This command is used to conditionally terminate any one of your current sessions and is only relevant to applications that support conditional logoff.

**Command class** **G**

**Minimum abbreviation** TERMC

**Format** **TERMCOND name**  
**TERMCOND ALL**

where:

**name** is the ALIAS name assigned during session creation. Applications like TSO support conditional LOGOFF commands and allow the user to access that TSO userid from another MULTSESS/HPO userid or from outside of MULTSESS/HPO itself. A list of your active sessions with their aliases can be displayed via the 'Q SESSION' command.

**ALL** terminates all your sessions.

### Example

```
TERMC ALL
```

## **TERMRUN** (ATP users only)

**Description** The TERMRUN command is used to unconditionally terminate a script running on an application session.

**Command class** **G**

**Minimum abbreviation** TERMR

**Format** **TERMRUN *alias***

where:

***alias*** is the alias of the session on which the script is running.

**Notes** At termination time ATP will return the relative statement number that was to be executed next and the screen image produced so far. The application session will remain active. You may reconnect to the session to view the screen image produced by ATP and continue application processing from that point.

The information resulting from this command will be useful if an ATP script is suspected of hanging.

## TERMSESS

**Description** This command is used to unconditionally terminate any or all of your current sessions.

**Command class** G

**Minimum abbreviation** TERM

**Format**  
**TERMSESS ALL**  
**TERMSESS *alias***  
**TERMSESS ALL ALL**  
**TERMSESS *alias* ALL**

where:

- ALL** in the first parameter position, terminates all your sessions.
- alias*** is the alias name assigned during session creation. A list of your active sessions with their aliases can be displayed via the Q command.
- ALL** in the second parameter position, terminates any associated SIMLOGON session.

### Example 1

```
TERMSESS TSO1
```

terminates session TSO1.

### Example 2

```
TERM ALL
```

terminates all sessions.

### Example 3

```
TERMSESS ALL ALL
```

terminates all sessions including SIMLOGON.

## TPTRACE

**Description** This command is used to trace MULTSESS/HPO events associated with data transmission.

**Command class** A

**Minimum abbreviation** TPT

**Format**  
**TPTRACE RPL**  
**TPTRACE DATA**  
**TPTRACE RPL *terminal***  
**TPTRACE DATA *terminal***  
**TPTRACE OFF**

where:

<b>RPL</b>	traces as above and prints the RPL in hexadecimal along with 32 bytes (in hexadecimal and EBCDIC) of any data related to the request.
<b>DATA</b>	traces as above, but prints all associated data in hexadecimal and EBCDIC.
<b><i>terminal</i></b>	specifies the VTAM nodename of the device on which tracing is to be performed.
<b>OFF</b>	stops the tracing of information.

**Note** This command should only be used under advice from your local support office.

## **VERSION**

**Description** The version command is used to display the Version, Release and Fix level for the copy of MULTSESS/HPO running at your installation.

**Command class** **A**

**Minimum abbreviation** VERS

**Format** **VERSION**

**Notes** This information should always be quoted when reporting a problem to your local support office.

The fix level reflects the maintenance level at which MULTSESS/HPO was delivered.

To obtain details about subsequent maintenance, the FIX command should be used.

## VPOOL

**Description** The VPOOL command is used to dynamically reload the virtual terminal pool definitions.

**Command class** C

**Minimum abbreviation** VP

**Format** **VPOOL member**

where:

**member** must be the name of a valid member residing in the dataset referred to by the VPOOL DD statement in the JCL used to initialize MULTSESS/HPO.

**Notes** The VPOOLS are rebuilt.

For ACBs occurring in an old and new pool of the same name, the current status and userid will be saved across the reload.

Sessions using ACBs allocated from an old pool, but not in the new pool will continue uninterrupted. At session termination, the ACB will not be eligible for reallocation to another user.

## VTERM

**Description** The VTERM command is used to display the current user of the specified VTERM. This command is of particular use to a user who has had a session request refused because the VTERM is in use by another user.

**Command class** **G**

**Minimum abbreviation** VT

**Format** **VTERM vtname**

where:

**vtname** is the name of the VTERM to be displayed. This may be the true VTERM ACBNAME, or the VTERM SYMBOLIC name as known to the user. The response to the command will list the issuing user's alias, the true VTERM name, the name of the user who currently has a session with the VTERM and the alias by which it is known to that user.

## VTERM SESSIONS

**Description** The VTERM SESSIONS command is used to display the current user of the specified VTERM. This command is of particular use to a user who has had a session request refused because the VTERM is in use by another user.

**Command class** B

**Minimum abbreviation** VT

**Format** VTERM *vtname* SESSIONS

where:

**vtname** is the name of the VTERM to be displayed. This may be the true VTERM ACBNAME or the VTERM SYMBOLIC name as known to the user. The response to the command will list the issuing user's alias, the true VTERM name, the name of the user who currently has a session with the VTERM and the alias by which it is known to that user.

**SESSIONS** causes the command response to include a list of the current VTERM user's sessions, the active session being indicated by an '\*'.

## WAIT

**Description** The WAIT command is used to wait a given number of seconds.

**Command class** **G**

**Minimum abbreviation** W

**Format** **WAIT**  
**WAIT nn**

where:

**nn** is the number of seconds to wait, in the range 1 to 30.

The default is 5 seconds.

### Example

```
W 10
```

waits 10 seconds.

### Notes

This command is particularly useful within multiple command strings.

For example, a PF key could be set up to perform the multiple command string as follows:

```
TERM ALL;WAIT 5;LOGOFF
```

Since terminating sessions is an asynchronous operation, the WAIT command is there to ensure that MULTSESS/HPO has sufficient time to terminate the sessions before logoff is attempted.

## Chapter 3 - MULTSESS/HPO messages and error codes

MULTSESS messages displayed on user terminals are contained in load module TPMSGs. The source for this module is on member TPMSGs of the sample library on the distribution tape.

You may wish to customize the message texts for use in your installation, for instance by translating them to a language other than English. A sample JCL to reassemble the messages module is supplied as member ASMSAMP of the control library.

Module TPMSGs is loaded into storage when MULTSESS is started, thus avoiding unnecessary I/O whenever a message is displayed. You may therefore safely reassemble and relink TPMSGs while MULTSESS is active. The new version may be brought into use while MULTSESS is active using the LOAD command.

### Finding different types of message in this chapter

This chapter is divided into three parts as follows:

Part 1 - General MULTSESS/HPO messages on page 3.2

Part 2 - System operator messages on page 3.36

Part 3 - Error codes and messages on page 3.39

### ATP/HPO messages

For messages relating to ATP/HPO (i.e. messages beginning with the characters AT), please refer to the ATP/HPO Installation and Operation manual, *Chapter 5 - ATP/HPO messages*.

## Part 1 - General MULTSESS/HPO messages

Message	Description
MS0001	<p><b>INVALID COMMAND - +SYSCMD</b></p> <p>An invalid command has been attempted. +SYSCMD is set to the value of the command.</p>
MS0002	<p><b>ENTER LOGON, LOGOFF OR HELP FOR MORE INFORMATION</b></p> <p>Your terminal is currently in connect status. That is you are not logged on to MULTSESS/HPO and yet you attempted to issue a command. The only commands supported in connect status are LOGON, LOGOFF or HELP.</p> <p>Refer to the description of these commands for the correct format.</p>
MS0003	<p><b>LOGON REJECTED - TERMINAL IN SESSION</b></p> <p>Your terminal is already logged on to MULTSESS/HPO and a subsequent LOGON command has been entered. If you wish to logon again you must first disconnect or logoff. Refer to the description of these commands for the correct format.</p>
MS0004	<p><b>COMMAND +SYSCMD DISABLED BY INSTALLATION</b></p> <p>The command +SYSCMD you have just entered has been disabled by the installation. Retry the command after a few minutes. If the message reappears contact your MULTSESS/HPO administrator for information regarding why the command has been disabled.</p>
MS0005	<p><b>COMMAND +SYSCMD UNAVAILABLE</b></p> <p>The command you have just entered has been marked unavailable by MULTSESS/HPO itself. This is normally done if MULTSESS/HPO finds an error within a command module. Contact your MULTSESS/HPO administrator for further information.</p>
MS0006	<p><b>+SYSUSER LOGGED ON AT +SYSTIME ON +SYSDATE</b></p> <p>You have just LOGGED ON successfully to MULTSESS/HPO. +SYSUSER is set to indicate your userid, +SYSTIME and +SYSDATE are set to the current time and date. The date is in the format as specified at startup by the MULTSESS/HPO administrator.</p>
MS0007	<p><b>LOGON REJECTED - MAXIMUM USERS EXCEEDED</b></p> <p>You have attempted to logon, but the operator or MULTSESS/HPO administrator has set a limit on the number of users who are allowed to use MULTSESS/HPO. Your logon attempt has been rejected. Retry the command after a few minutes. If the message recurs contact your MULTSESS/HPO administrator for more information on why the limit has been set.</p> <p><b>Note</b></p> <p>Three methods exist for setting the MAXUSERS limit, as follows:</p> <ol style="list-style-type: none"><li>1. MULTSESS/HPO has an internal default limit of 9999 users.</li><li>2. Installation specifying a value using the MAXUSERS parameter at startup.</li><li>3. The operator command 'SET MAXUSERS nn' used to modify it dynamically.</li></ol>

- MS0008**                    **USERID +MSUSER IS INVALID OR MISSING - RESTART**  
You have attempted to logon but you either forgot to enter a Userid or the Userid you entered was invalid. Your logon attempt has been ignored. Verify that you are using the correct command format for logon before retrying the command. If the problem persists contact your MULTSESS/HPO administrator and have him verify that your Userid is correctly specified in the directory.  
**Note**  
For more information on the LOGON command please refer to *Chapter 2 - MULTSESS/HPO commands*.
- MS0009**                    **INVALID PASSWORD FOR USERID +MSUSER**  
You have attempted to logon but the password you specified is invalid. Your logon attempt is rejected. Restart your logon procedure. If the problem persists contact your MULTSESS/HPO administrator and have him verify that your password is correct.  
**Note**  
For more information please refer to the LOGON command on page 2.36.
- MS0010**                    **ENTER PASSWORD FOR USERID +MSUSER**  
You are in the process of logging on. MULTSESS/HPO has requested you to enter your password. This is an information message only. Enter your password to complete logon processing, it will not be displayed on the screen as you type it.
- MS0011**                    **USERID +MSUSER NOT FOUND**  
You have attempted a command which specified a userid. However, MULTSESS/HPO was unable to locate the user within the system. Issue a QUERY NAMES command to verify that you have spelt the userid correctly before retrying the command.
- MS0012**                    **+SYSCMD ABENDED +RCODE AT OFFSET +SYSADR IN MODULE +SYSMOD**  
MULTSESS/HPO noticed that the command you have just issued failed and automatically invoked recovery processing. +SYSCMD is set to the value of the command. +RCODE, +SYSADR and +SYSMOD contain information relevant to the problem. If the problem persists contact your MULTSESS/HPO administrator and report the message to him specifying the values for +SYSCMD, +RCODE, +SYSADR and +SYSMOD.
- MS0013**                    **INSUFFICIENT AUTHORITY FOR COMMAND +SYSCMD**  
You have attempted to issue a command for which you are not authorized. Your request has been rejected and no action has been taken. +SYSCMD is set to the value of the command. If you require access to the command you should contact your MULTSESS/HPO administrator.
- MS0014**                    **INSUFFICIENT AUTHORITY FOR FUNCTION +SYSFUNC**  
You have attempted to issue a command specifying a 'FUNCTION' for which you are not authorized. Your request has been rejected and no action has been taken. +SYSFUNC is set to the value of the function you requested. If you require access to the function you should contact your MULTSESS/HPO administrator.

- MS0015**                    **INVALID COMMAND/MODULE NAME SPECIFIED FOR LOAD**  
You have attempted to reload a command or module but you have specified a name not found in the MULTSESS/HPO modules table. Your request has been rejected and no action has been taken. Verify that the command/module name you specified was correctly spelt before retrying the command.
- Note**  
The LOAD command is only for restricted use by persons responsible for maintaining MULTSESS/HPO. The command refreshes the copy of the code in virtual storage.
- MS0016**                    **COMMAND/MODULE NOW AVAILABLE**  
You have issued a LOAD command to refresh a MULTSESS/HPO routine or command. The module was found and the load ended normally, the old version being replaced in storage by the new code.
- MS0017**                    **ERROR DURING COMMAND/MODULE LOAD**  
You have issued a LOAD command to refresh a MULTSESS/HPO routine or command, but an error occurred during the load. It may be your load module library has gone into multiple extents, in which case MVS is unable to find the module. Verify that the module exists in the library and that the number of extents since system startup has not increased. The command/module will not be available for use until a successful load command is processed for this module.
- MS0018**                    **NO FUNCTION SPECIFIED FOR COMMAND**  
You have issued a command for which a function is required, for example:  
    QUERY  
The QUERY command with no function is invalid. If the problem persists, please refer to *QUERY (command class G only)* on page 2.49 or *QUERY (command class B only)* on page 2.51.
- MS0019**                    **INVALID FUNCTION SPECIFIED FOR COMMAND**  
The command you have just entered contains an invalid function operand, for example:  
    SET OFK1 imm help  
OFK1 is invalid. It should be specified as PFK1. Before retrying the command, please refer to *Chapter 2 - MULTSESS/HPO commands* for the correct format of commands.
- MS0020**                    **INVALID OR MISSING USERID - NO ACTION TAKEN**  
The command you have just entered required a Userid to be specified. However, you either omitted the operand or misspelt it. Issue a QUERY NAMES command to verify that the userid is correct before retrying the command.
- MS0021**                    **FORCE OF OWN USERID IS UNSUPPORTED**  
You have attempted to issue the FORCE command for your own userid. This is an unsupported function and no action has been taken.

- MS0022**                    **NO SUB-PARAMETER SPECIFIED FOR COMMAND**  
The command you have just entered requires a sub-parameter which you omitted. Before retrying the command, refer to *Chapter 2 - MULTSESS/HPO commands* for the correct format of commands.
- MS0023**                    **INVALID SUB-PARAMETER SPECIFIED FOR COMMAND**  
The command you have just entered contains an invalid sub-parameter. Before retrying the command, refer to *Chapter 2 - MULTSESS/HPO commands* for the correct format of commands.
- MS0024**                    **INVALID SUB-PARAMETER - MORE THAN 8 CHARACTERS**  
The command you have just entered contains a sub-parameter longer than 8 characters. All commands and subcommands in MULTSESS/HPO have a maximum length of 8 characters. Before retrying the command, refer to *Chapter 2 - MULTSESS/HPO commands* for the correct format of commands.
- MS0025**                    **COMMAND TERMINATED DUE TO ATTENTION**  
You have just terminated the current command by use of the PA1 key. This message is for information only.
- MS0026**                    **+SYSUSER RECONNECTED AT +SYSTIME ON +SYSDATE**  
You have just reconnected to MULTSESS/HPO after a previous disconnect. The status of your session is exactly as you had left it when you issued DISCONNECT, assuming that no installation defined timeouts occurred. +SYSUSER is set to indicate your userid and +SYSTIME and +SYSDATE are set to the current time and date. This message is for information only.
- MS0027**                    **LOGOFF REJECTED - SESSIONS STILL EXIST**  
You issued the LOGOFF command but you still have active sessions. If you want to free up your terminal, then use the DISCONNECT command; otherwise you must terminate all sessions prior to reissuing the LOGOFF command.
- MS0028**                    **INVALID COMMAND +SYSCMD ENTERED FROM STACK**  
An invalid command was encountered during stack processing. No action has been taken. STACK processing is performed automatically during LOGON for each user who has a PROFILE statement in the MULTSESS/HPO directory and also if the PROFILE EXECUTE command is issued. Ask your MULTSESS/HPO administrator to verify that the commands contained in your profile member are valid.
- MS0029**                    **USERID +MSUSER FORCED OFF**  
You have just issued a FORCE command to flush a user from the system. This message is for information only and indicates that the action was successful.
- MS0030**                    **INVALID PANEL PFK - REMAINDER OF LINE IGNORED**  
You entered a PANEL PFK command. However, one of the PFK values you entered is invalid. Only the values 1 - 24 are valid. The command line from this point onwards is ignored.

- MS0031**                    **INVALID NEWPASSWORD FOR USERID +MSUSER - RESTART**  
You entered a new password which MULTSESS/HPO determined was of an invalid format. The logon must be retried.
- MS0032**                    **COMMAND IGNORED, USERS OR SESSIONS STILL ACTIVE**  
You issued the SHUTDOWN command, but MULTSESS/HPO has detected that users are still logged on, or that you still have active sessions. No action has been taken. Shutdown can only be done when NO users or sessions are active. Message MS0033 always follows this message.
- MS0033**                    **ISSUE 'FORCE ALL' AND/OR 'TERM ALL' PRIOR TO RE-ISSUING SHUTDOWN**  
See message MS0032 above.
- MS0034**                    **INVALID ALIAS SPECIFIED ON FORCE COMMAND**  
An attempt was made to terminate a session for a user, but the specified alias name was invalid. Probable causes are:  
    alias name exceeds 8 characters.  
    alias name was incorrectly spelt.  
    userid has no active sessions.  
Issue Q USERID ALL to confirm the alias names for a user's sessions.
- MS0035**                    **SESSION +MSSESS FOR USER +MSUSER TERMINATED**  
A FORCE USERID ALIAS command has been processed and the session referred to by +MSSESS field has been terminated for the userid defined by +MSUSER.
- MS0036**                    **INCONSISTENT TERMINAL TYPE FOR RECONNECT PROCESSING - RESTART**  
The terminal type that you used to reconnect to MULTSESS/HPO is incompatible with the terminal type used in your initial logon. This can be due to a different screen size or a control unit buffer. Reconnect processing is only supported between terminals that have like characteristics.
- MS0037**                    **ERROR DURING TERMINATION OF SESSION +MSSESS**  
You issued the FORCE USERID ALIAS command to terminate a user's session, but an error was encountered during termination processing. This could indicate that the session no longer exists due to a VTAM error earlier. Although this is only a warning and normal processing continues, if the problem persists, it should be reported to your MULTSESS/HPO administrator.
- MS0038**                    **LOGO UPDATED AND SENT TO ALL CONNECT USERS**  
The logo has been updated from file and all connect users have been sent the updated logo.
- MS0039**                    **APPLICATION NOT CODED - NO ACTION TAKEN**  
You have just issued a SESSION command, however, you forgot to specify an application name for MULTSESS/HPO to connect you to. No action has been taken by MULTSESS/HPO. For information on the correct command format please refer to *Chapter 2 - MULTSESS/HPO commands*.

- MS0040 APPLICATION NOT STARTED - REQUEST REFUSED**  
You have just issued a SESSION command which MULTSESS/HPO accepted as valid, but in trying to connect you to the application MULTSESS/HPO determined that the application was not started. Verify that you are requesting the correct application before retrying the command. If the problem persists, contact your Network Control personnel.
- MS0041 APPLICATION CLOSING DOWN - REQUEST REFUSED**  
You have just issued a SESSION command which MULTSESS/HPO accepted as valid, but in trying to connect you to the application MULTSESS/HPO determined that the application was not accepting sessions because it was in the process of closing down. Retry the command at a later time, however, if the problem persists, contact your Network Control personnel.
- MS0042 VTAM ERROR ENCOUNTERED - REQUEST CANCELLED**  
You have just issued a SESSION command which MULTSESS/HPO accepted as valid, but in trying to connect you to the application MULTSESS/HPO encountered an error within VTAM itself. Any occurrence should be reported directly to your Network personnel.
- MS0043 APPLICATION NOT DEFINED TO VTAM - REQUEST REFUSED**  
You have just issued a SESSION command which MULTSESS/HPO accepted as valid, but in trying to connect you to the application MULTSESS/HPO determined that the application is not defined to VTAM. This message is displayed if the VTAM node defining this application has not been activated by the operations department. Retry the command. If the problem persists, contact your Network Control personnel.
- MS0044 MAX SESSION LIMIT REACHED - REQUEST REFUSED**  
You have just issued a SESSION command which MULTSESS/HPO refused to accept because you already have the maximum number of sessions running. The QUERY CONSESS command is used to display the number of concurrent sessions you may initiate. The QUERY SESSION command is used to display which sessions you already have. Any discrepancy should be reported to your MULTSESS/HPO administrator. If you do require to start a new session, you must first terminate one of your previous sessions. Your MULTSESS/HPO administrator is responsible for setting this limit.
- MS0045 APPLICATION NOT DEFINED TO MULTSESS/HPO - REQUEST REFUSED**  
You have just issued a SESSION command which MULTSESS/HPO has refused to accept because it could not find the application you specified in the Application Definition Table. This table contains the names of all applications with which MULTSESS/HPO is allowed to communicate. Verify that you have the correct application name before retrying the command. If the problem persists contact your MULTSESS/HPO administrator.
- MS0046 INVALID PAK OR PFK SPECIFIED - COMMAND IGNORED**  
The format of the SET SESSCHAR .... command that you have just issued is incorrect. Either the PAK or PFK number you specified was non-numeric or was higher than the number of PAK's or PFK's currently supported by MULTSESS/HPO. Check with *Chapter 2 - MULTSESS/HPO commands* for further information on Command Format.

- MS0047**                    **SESSION LIMIT FOR APPLICATION REACHED - REQUEST REFUSED**  
You have just issued a SESSION command which MULTSESS/HPO refused to accept because the application you specified is already supporting the maximum number of sessions it is allowed as specified in the Application Definition Table. Verify that you have the correct application name before retrying the command. Your MULTSESS/HPO administrator is responsible for setting the limit.
- MS0048**                    **TP TRACE ACTIVATED**  
This message indicates that the MULTSESS/HPO internal TP activity tracing has been started.
- MS0049**                    **TP TRACE DE-ACTIVATED**  
This message indicates that the MULTSESS/HPO internal TP activity tracing has been stopped.
- MS0050**                    **ACF2 NOT ACTIVE ON YOUR SYSTEM**  
You have specified ACF2 as a password for a user in the directory, thereby automatically invoking MULTSESS/HPO's ACF2 support. However, ACF2 has either not been installed or is not active on your system.
- MS0051**                    **LOGON REJECTED - RESTART**  
You have attempted to logon but your request was invalid, due to an incorrect password, invalid userid or userid not defined to MULTSESS/HPO. MULTSESS/HPO has rejected your request; to continue re-enter the LOGON command specifying a valid userid and password.
- MS0052**                    **UNABLE TO RECREATE PREVIOUS SCREEN IMAGE**  
You have just attempted to return to a previous session and MULTSESS/HPO has tried to re-display your previous screen image. However, due to a previous error, probably a terminal error during session switch, MULTSESS/HPO was unable to save a good screen image. For this reason MULTSESS/HPO cannot directly recreate the screen for you. The action you should take is application dependent, but would normally consist of pressing either the <PA2> or <ALT> <Clear> key.
- MS0053**                    **USERID ALREADY IN USE - LOGON IGNORED**  
You have just issued a logon request specifying a Userid which MULTSESS/HPO ascertained is already active. Verify that you have not misspelt the userid or that someone else is not using your userid.
- MS0054**                    **LOGMODE +LOGMODE IS INVALID - REQUEST REFUSED**  
You have just issued a session request but, in attempting to connect you to the application, VTAM was unable to find the definition describing your terminal characteristics, normally termed the LOGMODE entry, in the MODETAB associated with MULTSESS/HPO, or with the VTERM, if being used.  
Occurrence of this message normally means that you entered an invalid logmode entry name on the SESSION command. If no logmode entry name was specified, then an invalid logmode entry name exists in the SESSION statement in your directory entry.

- MS0055**                    **INVALID OR MISSING ALIAS NAME - NO ACTION TAKEN**  
You attempted to terminate one of your sessions using the TERMSESS command, however, the command was not specified correctly. Probable causes are:
- ALIAS name exceeds 8 characters.
  - ALIAS name was incorrectly spelt.
  - ALIAS name was not specified. Issue Q SESSION, to confirm the alias names for the sessions you currently have.
- MS0056**                    **UNABLE TO OPEN VTERM +VTERM - ERROR CODE +OPNCODE**  
The MULTSESS/HPO directory entry for your userid contains a VTERM statement informing MULTSESS/HPO which ACBNAME to use on your behalf when communicating with other VTAM applications. MULTSESS/HPO was unable to open the ACBNAME; the probable causes are:
- ACBNAME not active to VTAM.
  - ACBNAME was incorrectly spelt in the directory.
  - ACBNAME exceeds 8 characters.
  - ACBNAME already in use by another user.
- Reissue the command, and if the problem persists contact your MULTSESS/HPO administrator.
- MS0057**                    **NO VTERM ENTRY SPECIFIED IN DIRECTORY - REQUEST REFUSED**  
You have just requested a session with an application which requires a unique VTERM per user, however, you have no VTERM statement in your MULTSESS/HPO directory entry. Contact your MULTSESS/HPO administrator for assistance.
- MS0058**                    **MEMBER NAME NOT SUPPLIED - NO ACTION TAKEN**  
You have just issued a command requiring a PDS member name as a sub-parameter, however, the member name was not entered therefore the command was ignored.
- MS0059**                    **UPDATE FAILED - +SYSTAB NOT CHANGED**  
An attempt was made to carry out an on-line update of the MULTSESS/HPO Directory of Users or the ADT, however, due to an error in the relevant file, MULTSESS/HPO has refused to carry out the update and kept the old table. Check for any previous messages indicating the error.
- MS0060**                    **MEMBER NOT FOUND - NO ACTION TAKEN**  
You have just issued a command which requires a PDS member name as a sub-parameter, however, the member could not be found in the relevant dataset.
- MS0061**                    **+SYSTAB DD STATEMENT NOT SPECIFIED**  
While attempting the update of the ADT or the Directory of Users, MULTSESS/HPO was unable to locate the associated dataset. The update was rejected.
- MS0062**                    **+SYSTAB UPDATED AND ONLINE**  
You have successfully updated the ADT or the Directory of MULTSESS/HPO users and the new version is on-line and available.

- MS0063**                    **DATASET NOT FOUND**  
During the processing of a command MULTSESS/HPO tried to allocate a dataset to obtain information, however, the dataset was not found. This is probably due to a spelling mistake. If the problem persists, contact your MULTSESS/HPO administrator.
- MS0064**                    **DATASET NAME NOT SPECIFIED - +SYSCMD IGNORED**  
You have just issued a command which requires a dataset name as a parameter. However, the dataset name was not entered, and the command has therefore been ignored.
- MS0065**                    **DATASET OPEN FAILURE - +SYSCMD ABORTED**  
While processing a command MULTSESS/HPO tried to open a dataset to obtain information. Unfortunately an error occurred during the open processing. Retry the command and, if the problem persists, contact your MULTSESS/HPO administrator.
- MS0066**                    **I/O ERROR READING DIRECTORY - +SYSCMD ABORTED**  
While MULTSESS/HPO was processing a PDS it encountered an I/O error in the PDS directory. This may be due to a device malfunction or could be a real I/O error. Any occurrence of the message should be reported to your MULTSESS/HPO administrator.
- MS0067**                    **DATASET IS NOT A PDS - +SYSCMD ABORTED**  
You have just issued a command requiring a PDS member name as a parameter/subparameter; however, the dataset that was specified is not a PDS. Contact your MULTSESS/HPO administrator for assistance.
- MS0068**                    **CORRUPT OR EMPTY VTOC +SYSCMD ABORTED**  
While searching a disk for a specific dataset entry, MULTSESS/HPO encountered a VTOC error. The error code indicates that the VTOC is corrupt or may be empty. Any occurrence of this message should be reported to your MULTSESS/HPO administrator.
- MS0069**                    **DISK NOT MOUNTED FOR USE - +SYSCMD ABORTED**  
The system catalog entry for a dataset that MULTSESS/HPO needs access to, points to a disk not mounted as available for system use. Any occurrence of this message should be reported to your MULTSESS/HPO administrator.
- MS0070**                    **DATASET EXISTS IN CATALOG BUT NOT ON DISK**  
MULTSESS/HPO requires access to a dataset that is cataloged but does not exist on the disk specified in the catalog entry. Any occurrence of this message should be reported to your MULTSESS/HPO administrator.
- MS0071**                    **CATALOG I/O ERROR (RC=4)- +SYSCMD ABORTED**  
While trying to locate a dataset entry in the catalog, MULTSESS/HPO encountered an error code 4. Message MS0075 follows.

- MS0072**                    **DATASET NOT IN CATALOG - +SYSCMD ABORTED**  
MULTSESS/HPO requires access to a dataset; however, it cannot find an entry for it in the catalog. Any occurrence of the message should be reported to your MULTSESS/HPO administrator.
- MS0073**                    **DSN EXISTS AS LOWER LEVEL IN CATALOG (RC=16) +SYSCMD ABORTED**  
While trying to locate a dataset entry in the catalog, MULTSESS/HPO encountered an error code 16. Message MS0075 follows.
- MS0074**                    **CATALOG I/O ERROR (RC=24) - +SYSCMD ABORTED**  
While trying to locate a dataset entry in the catalog, MULTSESS/HPO encountered an error code 24. Message MS0075 follows.
- MS0075**                    **REFER TO IBM MANUAL CATALOG MANAGEMENT MACROS FOR MORE INFORMATION**  
MULTSESS/HPO encountered an error during the processing of a catalog management routine. One or more messages will precede this message giving the return codes associated with the error(s). The IBM manual gives an explanation of the error(s) and possible solution(s). Any occurrence of this message should be reported to your MVS System support personnel.
- MS0076**                    **+SYSCMD NOT VALID EXCEPT FROM AN ACTIVE SESSION**  
You have just issued a MULTSESS/HPO command that is only valid if you are in an active session. The command has been ignored, and no action has been taken.
- MS0077**                    **+SYSCMD IS NOT SUPPORTED FOR YOUR TERMINAL**  
An attempt was made to issue a command that simulates a terminal feature, for example ATTENTION, but your terminal type does not support the function. The command was ignored.
- MS0078**                    **+SYSCMD IGNORED - MESSAGES IN QUEUE**  
The command specified by +SYSCMD has been ignored by MULTSESS/HPO because messages existed in your message queue. The messages will have been displayed, so the command can now be re-entered.
- MS0079**                    **+SYSCMD COMMAND PROCESSED**  
The command specified by +SYSCMD has been successfully processed by MULTSESS/HPO. This message is for information only.
- MS0080**                    **YOUR ENTRY HAS BEEN REMOVED FROM THE DIRECTORY - COMMAND REFUSED**  
You have just issued a command requiring information available only in your MULTSESS/HPO directory entry. However, since the time you logged on and now, the entry has been removed. If you disconnect or logoff, you will be unable to relogin. Contact your MULTSESS/HPO administrator.
- MS0081**                    **USERID IS NOT AUTHORIZED TO CREATE SESSIONS**  
You have just issued a QUERY \* command to find out which applications you are allowed to access, however, no SESSION statements were found in your directory entry. Any attempt by you to create sessions with applications will be rejected by MULTSESS/HPO. Contact your MULTSESS/HPO administrator to determine why your directory entry has no SESSION statements.

- MS0082**                    **HOT NEWS SET**  
A SET NEWS command has been successfully processed.
- MS0083**                    **NO APPLICATIONS MATCH THE SESSION STATEMENTS IN YOUR DIRECTORY ENTRY**  
You have just attempted to issue a QUERY \* command, but in scanning the application definition table MULTSESS/HPO was unable to locate any entries matching the SESSION statements in your directory entry. All attempts at session creation will be refused by MULTSESS/HPO. Contact your MULTSESS/HPO administrator to determine why the SESSION statements in your directory entry do not match the applications defined in the ADT.
- MS0084**                    **WAIT TIME EXCEEDED - +SYSCMD CANCELLED**  
When in MULTSESS/HPO mode your terminal was either in MORE status or MULTSESS/HPO was expecting input which you did not supply within a certain time interval. MULTSESS/HPO has terminated the command you were executing, automatically freeing up any resources you may have had allocated.
- MS0085**                    **NO SESSIONS EXIST**  
You have just attempted to issue a command which references a session you may have previously created. However, no sessions currently exist. This may be due to an application timeout, application failure, an operator cancel or the fact that no sessions were ever created.
- MS0086**                    **DATE: +SYSDATE TIME: +SYSTIME**  
MULTSESS/HPO has just told you the current date and time. The date format can be specified by your MULTSESS/HPO administrator.
- MS0087**                    **TERMINAL= +SYSTEM : APL= +YSNO : EXTENDED= +EXNORM**  
A QUERY TERM command has been entered and MULTSESS/HPO is giving details about the terminal currently in use. These include the VTAM nodename, whether or not the screen supports APL characters, and whether or not extended data stream is supported.
- MS0088**                    **ACTIVE = +SYSTSKA HIGHEST = +SYSTSKH**  
In response to a QUERY TASK command MULTSESS/HPO has replied with this message where +SYSTSKA and +SYSTSKH are substituted by the number of subtasks required by MULTSESS/HPO to handle the current workload, and the highest number ever required. These values include the two MULTSESS/HPO housekeeping routines which are constantly active.
- MS0089**                    **APPLICATION = +SYSTRNA TERMINAL = +SYSTRNT**  
In reply to a QUERY TRANSACT command MULTSESS/HPO has responded with this message where +SYSTRNA and +SYSTRNT are substituted by the number of application receives and terminal receives for all users and applications since MULTSESS/HPO initialization.
- MS0090**                    **CURRENT USERS: TOTAL = +SYSLOGN ACTIVE = +SYSCONN**  
In response to a QUERY USERS command MULTSESS/HPO has replied with this message where +SYSLOGN is the current total of users, both disconnected and connected, and +SYSCONN is the number of users actively using MULTSESS/HPO.

- MS0091**                    **MAXIMUM NUMBER OF USERS SET TO +SYSMAXU**  
In reply to a QUERY MAXUSERS or SET MAXUSER command MULTSESS/HPO issued this message where +SYSMAXU is substituted by the maximum number of users allowed to logon to MULTSESS/HPO at any time.
- MS0092**                    **MAXIMUM NUMBER OF SESSIONS SET TO +MAXCONN**  
In response to a QUERY CONSESS command MULTSESS/HPO has replied with this message where +MAXCONN is substituted by the maximum number of sessions you are permitted to maintain concurrently.
- MS0093**                    **SESSION SWITCH CHARACTER SET TO +SESCHAR (OPTION +SESSOPT)**  
In reply to a QUERY SESSCHAR command MULTSESS/HPO has responded with this message where +SESCHAR is substituted by your current session switch character, and +SESSOPT is resolved as KEEP or NOKEEP and AUTON or AUTOFF.
- MS0094**                    **PANEL PFKS SET**  
You entered a PANEL PFK command. MULTSESS/HPO has successfully processed the PFK values entered.
- MS0095**                    **INSTALLATION SECURITY EXIT DISABLED - CONTACT MULTSESS/HPO ADMINISTRATOR**  
You attempted a logon to MULTSESS/HPO and your password was defined to be processed by the installation security exit. This exit is not currently enabled and so the logon cannot be validated.
- MS0097**                    **NO FIXES APPLIED**  
You have just issued a FIX command to determine the status of any fixes applied to your Version of MULTSESS/HPO, however, MULTSESS/HPO has determined that no fixes have been applied to your system. This is an internal MULTSESS/HPO command and should only be used with the guidance of your local support office.
- MS0098**                    **FOLLOWING FIXES HAVE BEEN APPLIED TO MULTSESS/HPO:**  
You have just issued a FIX command to determine the status of all fixes applied to your Version of MULTSESS/HPO. MULTSESS/HPO responds with this message followed by two 10 X 10 matrices, indicating with an X which fix numbers have been applied and with an O which fix numbers have not. This is an internal MULTSESS/HPO command and should only be used with the guidance of your local support office.
- MS0099**                    **FIX APPLIED**  
You have just issued a FIX command to determine the status of a particular fix. MULTSESS/HPO has determined that the fix is applied to your system. This is an internal MULTSESS/HPO command and should only be used with the guidance of your local support office.
- MS0100**                    **FIX NOT APPLIED**  
You have just issued a FIX command to determine the status of a particular fix. MULTSESS/HPO has determined that the fix is not applied to your system. This is an internal MULTSESS/HPO command and should only be used with the guidance of your local support office.

- MS0101**                    **INVALID/NON-NUMERIC FIX - NO ACTION TAKEN**  
You have just issued a FIX command to determine the status of a particular fix. However, the fix number specified was invalid. Respecify the command with a valid numeric value. This is an internal MULTSESS/HPO command and should only be used with the guidance of your local support office.
- MS0102**                    **UNABLE TO ALLOCATE REQUESTED DATASET**  
The command you just entered required access to a dataset i.e. PROFILE, DIRECTORY, ADT, etc., but the dataset could not be allocated. This message will normally be preceded by a reason for the failure.
- MS0103**                    **PROFILE DATASET OR MEMBER NOT FOUND**  
You have just issued a PROFILE command but MULTSESS/HPO was unable to locate either the profile dataset or the member of the profile dataset, as specified in your directory entry.
- MS0104**                    **UNABLE TO OPEN PROFILE DATASET/MEMBER**  
You have just issued a PROFILE command but MULTSESS/HPO was unable to open either the profile dataset or your profile member, as specified in your directory entry. This is probably due to an I/O error or device malfunction and, as such, should be reported to your MULTSESS/HPO administrator.
- MS0105**                    **A PROFILE DOES NOT EXIST FOR YOUR USERID**  
You have just issued a PROFILE command to list or execute your profile, however, your directory entry does not contain a PROFILE statement.
- MS0106**                    **APPLICATION DOES NOT ACCEPT LOGONS - REQUEST REFUSED**  
You have just attempted a SESSION command, however, the application you specified is not accessible through MULTSESS/HPO because it has been defined MACFRF=NLOGON to VTAM. This is a serious definition problem and should be reported to your MULTSESS/HPO administrator.
- MS0107**                    **APPLICATION NOT YET ACCEPTING LOGONS - REQUEST REFUSED**  
You have just attempted a SESSION command, however, the application you specified is not accepting requests to logon to it. If this situation persists contact your network control personnel.
- MS0108**                    **+SESSION BIND DOES NOT MATCH TERMINAL LOGMODE - SESSION CANCELLED**  
You have just attempted a SESSION command. The application has responded with a request for a different terminal type than you are currently using. As an example, the application may have specified a model 4 BSC terminal and you are using a model 3 SNA terminal. Ensure that you are using the correct terminal before reporting this problem to your MULTSESS/HPO administrator, who should verify your VTERM definitions.
- MS0109**                    **ERROR SENDING CINIT TO PLU - SESSION CANCELLED**  
MULTSESS/HPO was unable to complete your SESSION command because of an error which occurred before the session initiation request completed. This is probably due to an application abending or a cross domain node failure. This problem should be reported to your MULTSESS/HPO administrator.

- MS0110**                    **ERROR SENDING BIND TO SLU - SESSION CANCELLED**  
MULTSESS/HPO was unable to complete your SESSION command because of an error which occurred before the session initiation request completed. This is probably due to an application abending or a cross domain node failure. This problem should be reported to your MULTSESS/HPO administrator.
- MS0111**                    **SESSION REJECTED BY PLU - SESSION CANCELLED**  
MULTSESS/HPO was unable to complete your SESSION command because the application refused the request to begin a session. If the application is supposed to be available (i.e. it is not scheduled to be down), report this problem to your MULTSESS/HPO administrator.
- MS0112**                    **SESSION REJECTED BY SLU - SESSION CANCELLED**  
MULTSESS/HPO was unable to complete your SESSION command. A prior set of messages should detail the reason for the failure.
- MS0113**                    **SESSION REJECTED BY SSCP - SESSION CANCELLED**  
MULTSESS/HPO was unable to complete your SESSION command either because the application refused to accept the session, or because VTAM itself refused to initiate the session. Report this problem to your MULTSESS/HPO administrator.
- MS0114**                    **SESSION +SESSION TERMINATED**  
Your session with the alias name +SESSION has just been terminated. This message may be the result of an application failure, application time out or normal logoff, or can be the result of a TERMSESS, TERMCOND or FORCE command.
- MS0115**                    **\*\*WARNING\*\* +SESSION OUTBOUND RUSIZE TOO LARGE**  
MULTSESS/HPO has completed your request to initiate a session, however, the outbound rusize from the application is larger than the terminal can handle. This may result in errors later in the session, if large amounts of data are sent. This error may be caused by any of the following:
1. Incorrect LOGMODE entry defining terminal to VTAM.
  2. Application wrongly defines VTERM entry in its tables.
  3. User is using the wrong physical terminal.
- MS0116**                    **\*\*WARNING\*\* +SESSION INBOUND RUSIZE TOO SMALL**  
MULTSESS/HPO has completed your request to initiate a session, however, the outbound rusize from the terminal is larger than the application can handle. This may result in errors later in the session, if large amounts of data are typed in. This error may be caused by any of the reasons given in MS0115 above.
- MS0117**                    **INVALID OR MISSING ATPSCRIPT NAME ENTERED**  
Issued in response to a RUN or SESSION command. The ATP script name you entered, or which was entered on your behalf from a directory entry, is of invalid length. A script name must consist of from 1 to 8 characters.

- MS0118**                    **SCRIPT +SCRIPT INVOKED ON SESSION +SESSION +TEXT**  
Issued in response to a RUN or SESSION command, the script you requested is now running. If the Script was invoked using the RUN command without the RECON option, the script will continue to run in the background. You may invoke other functions and return to this at a later time.
- MS0119**                    **+SESSION LUTYPE INCOMPATIBLE WITH TERMINAL**  
MULTSESS/HPO has refused to complete your request to initiate a session because the application thinks it is communicating with a device type other than your terminal. This error is caused by the VTERM entry defining your virtual terminal being wrongly defined in the applications terminal control table. Report this problem to your MULTSESS/HPO administrator.
- MS0120**                    **+SESSION DEFAULT SCREEN SIZE INCOMPATIBLE WITH TERMINAL**  
MULTSESS/HPO has refused to complete your request to initiate a session because the application requires a primary screen width and/or height which is different from your physical terminal.  
This error may be caused by any of the following:  
  1. Incorrect LOGMODE entry defining terminal to VTAM.
  2. Application wrongly defines VTERM entry in its tables.
  3. User is using the wrong physical terminal. Report this problem to your MULTSESS/HPO administrator.
- MS0121**                    **+SESSION ALTERNATE SCREEN SIZE INCOMPATIBLE WITH TERMINAL**  
MULTSESS/HPO has refused to complete your request to initiate a session because the application requires an alternate screen width and/or height which is different from your physical terminal.  
This error may be caused by any of the following:  
  1. Incorrect logmode entry defining terminal to VTAM.
  2. Application wrongly defines VTERM entry in its tables.
  3. User is using the wrong physical terminal. Report this problem to your MULTSESS/HPO administrator.
- MS0122**                    **\*\*WARNING\*\* +SESSION QUERY CAPABILITY INCOMPATIBLE WITH TERMINAL**  
MULTSESS/HPO has completed your request to initiate a session, however, the application has indicated that it wishes to use extended data stream which your terminal does not support. This may result in errors later in the session if these features are used.  
This error may be caused by any of the following:  
  1. Incorrect logmode entry defining terminal to VTAM.
  2. Application wrongly defines VTERM entry in its tables.
  3. User is using the wrong physical terminal. Report this problem to your MULTSESS/HPO administrator.
- MS0123**                    **CURRENT PASSWORD HAS EXPIRED**  
During logon, MULTSESS/HPO verified the password you supplied against one of the supported security system databases and has found that it has expired. Re-enter the LOGON command specifying a new password, either directly on the command line or after the prompt for your password.

- MS0124**                    **NEWPASSWORD IS INVALID**  
During logon, MULTSESS/HPO has verified the new password you supplied against one of the supported security system databases and has found it to be invalid. This can occur if the new password has too many or too few characters, if you are trying to reuse a previous password or if you are trying to assign the same password as is currently in use.
- MS0125**                    **ABOVE CARD IS INVALID OR MISPLACED**  
During an attempted on-line update of the directory, MULTSESS/HPO found an invalid/misplaced control card. Due to this error, the directory has not been updated.
- MS0126**                    **APPLICATION NOT AVAILABLE AT THIS TERMINAL OR VTERM INVALID**  
You have issued a SESSION command but MULTSESS/HPO revoked it for one of two possible reasons. First, for security reasons you may be restricted from accessing this application from the terminal you are using. This is done via statements placed in your directory entry by the MULTSESS/HPO administrator. Second, you may have specified an invalid VTERM parameter when issuing the SESSION statement. To display the VTERMS and applications you are allowed to use issue QUERY \*.
- MS0127**                    **VTERM +VTERM IS ALREADY ACTIVE FOR ANOTHER USER - COMMAND REJECTED**  
You have issued a SESSION command specifying a VTERM, however the VTERM is currently being used by another MULTSESS/HPO user. Issue a 'QUERY \*' command to list the VTERMS you may use and reissue the SESSION command using one of the entries listed. If no other VTERM entry exists, then request the other user to free up the VTERM by terminating all his sessions that use it, thus making it available to you. Alternatively, contact your MULTSESS/HPO administrator for a VTERM dedicated to your userid.
- MS0128**                    **IDLETIME LIMIT PROCESSING COMPLETE FOR SESSION +MSSESS**  
The maximum idle time value has been exceeded by the session referenced by +MSSESS. MULTSESS/HPO has terminated the session, as part of security processing. The maximum idle time is defined per application by the 'IDLETIME=nn' statement in the ADT definitions. Contact your MULTSESS/HPO administrator for the settings for your applications.
- MS0129**                    **NO VTERMS SPECIFIED FOR YOUR USERID**  
You have issued a SESSION command to an application requiring a unique terminal definition per user. However, no VTERM statement exists in your directory entry. Contact your MULTSESS/HPO administrator for more information and assistance.
- MS0130**                    **VTERMS AVAILABLE FOR USE:**  
In reply to a Q \* command, MULTSESS/HPO has displayed dynamic data for your userid, concerning the virtual terminals you are allowed to use when creating sessions with applications. See message MS0082 for more information.
- MS0131**                    **APPLICATIONS AVAILABLE FOR USE:**  
In reply to a Q \* command, MULTSESS/HPO has displayed dynamic data for your userid, concerning applications that you are authorized to access through MULTSESS/HPO.

- MS0132**                    **ALIAS +MSSESS NOT FOUND FOR USER +MSUSER**  
You have issued a FORCE command for a user's session. However MULTSESS/HPO was unable to locate a currently active session for the user with the alias name you specified.
- MS0133**                    **ERROR DURING TERMINATION OF SESSION +MSSESS FOR USER +MSUSER**  
You have issued a FORCE command for a user's session. However MULTSESS/HPO detected an error while trying to terminate the user session. A FORCE of the user will normally resolve this.
- MS0134**                    **YOU ARE NOT AUTHORIZED TO USE THIS TERMINAL - RESTART**  
The MULTSESS/HPO administrator has restricted the terminal(s) that you may use when logging on to MULTSESS/HPO. The terminal you are currently attempting to use is not in this restricted list. Your logon request has been refused. Reissue the LOGON command from the terminal(s) you are authorized to use. Contact your MULTSESS/HPO administrator for more information.
- MS0135**                    **SESSION REQUEST FAILED - CODE=+SESSTAT,SENSE=+SESSENS**  
You just issued a SESSION command which failed for a reason MULTSESS/HPO could not ascertain. The VTAM code and sense for the failure are listed in the message. Retry the command, and if the failure persists, notify your MULTSESS/HPO administrator.
- MS0136**                    **SESSION NOT ALLOWED FROM THIS TERMINAL - REQUEST REFUSED**  
You have attempted a SESSION command for an application you are not allowed to access via the terminal you are using. If you want to use the application, logoff from this terminal and logon to one where access to the application is permitted. Your MULTSESS/HPO administrator can inform you of your security profile.
- MS0137**                    **VTERM +VTERM NOT ALLOWED FOR THIS SESSION - REQUEST REFUSED**  
You have attempted a SESSION command but the virtual terminal you specified is not permitted to access the application you requested. Ensure you have the correct application and virtual terminal definition. Your MULTSESS/HPO administrator knows your security profile, and your virtual terminals (VTERMS).
- MS0138**                    **SESSION LIMIT PROCESSING COMPLETE FOR SESSION +MSSESS**  
As a STARTUP option for MULTSESS/HPO, it is possible to limit the amount of data an application can send to MULTSESS/HPO when that application is not your current session i.e. a session that you have active, but are not currently displaying. The value of SESSION-LIMIT is installation dependent, you should therefore refer to your MULTSESS/HPO administrator for its value.
- MS0139**                    **WAITING FOR CONNECTION TO APPLICATION**  
You have just issued a SESSION command and MULTSESS/HPO has issued the session request on your behalf, however, the application has not yet responded to say that communication may start. No data input to the application is permitted under this condition. This message is for information purposes only and should be displayed for a maximum of 1 minute during session initiation only. If the message is not cleared, report the problem to your MULTSESS/HPO administrator.

- MS0140**                    **SESSION TERMINATION IN PROGRESS**  
You have issued a command referencing a session which is being terminated by MULTSESS/HPO because of session-limit processing. No application communication is allowed at this time. Message MS0114 will normally follow.
- MS0141**                    **ATP PROCESSOR NOT AVAILABLE - REQUEST TO RUN SCRIPT +SCRIPT REFUSED**  
MULTSESS/HPO has no connection to an ATP processing address space. Scripts cannot be run at this time. If this situation persists, contact your MULTSESS/HPO administrator.
- MS0142**                    **APPLICATION NOT ALLOWING INPUT**  
You attempted to issue an ATTN command to an application from which MULTSESS/HPO has not yet received a START DATA TRAFFIC signal to allow communication to begin. MULTSESS/HPO has ignored the ATTN command and placed your terminal back into input mode. Retry the ATTN command later.
- MS0143**                    **UNABLE TO OPEN +SYSTAB - COMMAND TERMINATED**  
You have just issued a command which requires access to an OS dataset. +SYSTAB is set to the file required. The command has been terminated unsuccessfully. Retry the command and if the problem persists, report the message to your MULTSESS/HPO administrator.
- MS0144**                    **PANEL MODE STARTED**  
You have just issued a PANEL ON command to invoke MULTSESS/HPO PANEL mode. When working in PANEL mode, your screen layout is predefined by MULTSESS/HPO to display the sessions available to you. To initiate a session in PANEL mode, simply press the PFK corresponding to the application you require. If a PFK has no value, MULTSESS/HPO will invoke your standard PFK as defined by your profile or via the SET PFKn ... command.
- MS0145**                    **PANEL MODE ENDED**  
You have just terminated PANEL mode via the PANEL OFF command or by pressing the <PA1> key. Your screen format is now that of normal MULTSESS/HPO mode and your PFKs reset to their pre-panel status. Any sessions you did not terminate before leaving panel mode are still active and may be referenced by the alias PFKnn, where nn is the PFK number used to initiate the session. The QUERY SESSION command can be used to display all your currently active sessions.
- MS0146**                    **VTERM ALREADY IN USE WITH APPLICATION - REQUEST REFUSED**  
MULTSESS/HPO has rejected your request to create a session with an application because the virtual terminal you tried to use for the session is already being used by you to the same application which does not support parallel sessions. If you require 2 sessions with this type of application you need a second VTERM statement in your directory entry.
- MS0148**                    **DCB PARM MISSING - PLEASE INFORM YOUR MULTSESS/HPO ADMINISTRATOR**  
This message should not be issued under the normal running of MULTSESS/HPO. It is for development staff use only.

**MS0149 DSN PARM MISSING - PLEASE INFORM YOUR MULTSESS/HPO ADMINISTRATOR**

This message should not be issued under the normal running of MULTSESS/HPO. It is for development staff use only.

**MS0150 UNABLE TO LOCATE INFO LIBRARY - CONTACT YOUR MULTSESS/HPO ADMINISTRATOR**

While processing a HELP command or subcommand, MULTSESS/HPO was unable to find the PDS containing the help or message members. This problem should be reported to your MULTSESS/HPO administrator as soon as possible.

**MS0151 NO INFO AVAILABLE FOR SPECIFIED FUNCTION**

You have just requested HELP information for a subcommand or command or MULTSESS/HPO message. Unfortunately, MULTSESS/HPO was unable to find a member containing the information you require.

**MS0152 OPEN FAILED FOR INFO PDS - CONTACT YOUR MULTSESS/HPO ADMINISTRATOR**

MULTSESS/HPO encountered errors opening the help/message dataset. This is probably due to an I/O error or device malfunction and should be reported to your MULTSESS/HPO administrator immediately.

**MS0153 INVALID/MISSING APPLICATION NAME - COMMAND IGNORED**

MULTSESS/HPO was asked for response statistics. This message indicates that either you have no sessions or the alias name you supplied with the command was invalid. You can display your current sessions via the Q SESSION command.

**MS0154 RESPONSE TIME ANALYSIS FOR SESSION +RSPSESS FOLLOWS:**

You have just issued a RESPONSE command for one or all of the sessions you currently have running. The field +RSPSESS will be substituted by the alias of one of your sessions.

**MS0155 RESPONSE VALUES INITIALIZED FOR SESSION +RSPSESS**

You have just issued a RESPONSE CLEAR for one or all of the sessions you currently have running. The appropriate response fields will be set to zeros. The field +RSPSESS will be substituted by the alias of one of your sessions.

**MS0156 DUMP OPTION SET ON**

You have just issued a SET DUMP ON command requesting MULTSESS/HPO to take a dump in the event of a subtask failure. This message is for information only and indicates that the option has been set. However, if a dump is produced MULTSESS/HPO will abend with a USER 206 when the SHUTDOWN command is entered, ensuring that all storage is available for analysis. This is an internal MULTSESS/HPO command and should only be used with the guidance of your local support office.

**MS0157 DUMP OPTION SET OFF**

You have just issued a SET DUMP OFF command requesting MULTSESS/HPO not to take a dump in the event of a subtask abend. This message is for information only and indicates that the option has been set off. This is an internal MULTSESS/HPO command and should only be used with the guidance of your local support office.

- MS0158**                    **SDWA WILL BE KEPT AFTER AN ABEND**  
You have just issued a SET SDWA KEEP command requesting the SDWA be retained in a dump in the event of a subtask abend. This message is for information only and indicates that the option has been set. This is an internal MULTSESS/HPO command and should only be used with the guidance of your support office.
- MS0159**                    **SDWA WILL BE FREED AFTER AN ABEND**  
You have just issued a SET SDWA NOKEEP command requesting SDWA deletion from a dump in the event of a subtask abend. This message is for information only and indicates that the option has been SET OFF. This is an internal MULTSESS/HPO command and should only be used under guidance of your local support office.
- MS0160**                    **SET SDWA OPTION INVALID OR DUMP OPTION NOT SET**  
An invalid option on the SET SDWA .... command was specified or the SET SDWA KEEP was issued without first setting the dump option via SET DUMP ON. Valid options for the SDWA setting are KEEP and NOKEEP. This is an internal MULTSESS/HPO command and should only be used under guidance of your local support office.
- MS0161**                    **NO APPLICATIONS FOUND IN ADT**  
A DEFINE command has been entered but MULTSESS/HPO was unable to find any application definitions in the member specified on the command.
- MS0162**                    **LOGGED ON USER COUNT SET**  
This message should not be issued under the normal running of MULTSESS/HPO as it is for development staff use only.
- MS0163**                    **INVALID LOGGED ON USER COUNT SPECIFIED - COMMAND IGNORED**  
This message should not be issued under the normal running of MULTSESS/HPO as it is for development staff use only.
- MS0164**                    **HOUSEKEEPING TIMER INTERVAL RESET**  
This message should not be issued under the normal running of MULTSESS/HPO as it is for development staff use only.
- MS0165**                    **INVALID HOUSEKEEPING INTERVAL SPECIFIED - NO ACTION TAKEN**  
This message should not be issued under the normal running of MULTSESS/HPO as it is for development staff use only.
- MS0166**                    **+MSUSER IS A PROTECTED USER - +SYSCMD IGNORED**  
Issued in response to a FORCE command. The userid named is essential to continued system operation and cannot be forced off.  
**Note**  
A SHUTDOWN request will complete with non-forceable users connected.
- MS0167**                    **PANEL NOT FOUND**  
Issued in response to a PANEL name command. The panel named cannot be located. Check that you have spelled the name correctly. If so contact your system administrator.

- MS0168**                    **INVALID PARAMETER ON PANEL STATEMENT**  
Issued in response to PANEL name command. Following the panel name, the parameter MSGON/MSGOFF either enables or disables the display of MULTSESS/HPO messages on an installation defined panel.
- MS0169**                    **VTERM +MYALIAS (+VTERM) IN USE BY USER +MSUSER USING NAME +ISALIAS +MSPOOL**  
Issued in response to a VTERM command. +MYALIAS is the name as typed on the VTERM command, the name as known to the issuing user. +VTERM is the VTERM ACBNAME. +ISALIAS is the alias by which the VTERM is known to user +MSUSER and +MSPOOL gives the pool from which it was obtained if applicable.
- MS0170**                    **INVALID SESSION REQUEST**  
Issued in response to SESSION command. You have requested a session with the copy of MULTSESS/HPO to which you are already logged on. The session request is refused.
- MS0171**                    **VTERM +MYALIAS (+VTERM) IS NOT IN USE**  
Issued in response to VTERM command. +MYALIAS is the name as typed on the VTERM command, the name as known to the issuing user. +VTERM is the VTERM ACBNAME. The VTERM named is not in use by another user.
- MS0172**                    **NOT SUPPORTED ON THIS LEVEL OF MULTSESS/HPO**  
You have attempted a function which is not available on this level of the product.
- MS0173**                    **NO USERS TO FORCE**  
Issued in response to a FORCE ALL command. There are no active users to force.
- MS0174**                    **NO PFKS SET**  
Issued in response to a Q PFK command. None of your PF keys have been assigned values.
- MS0175**                    **PFK SET**  
Issued in response to a SET PFK command. The PFK has been set to the requested value.
- MS0176**                    **PFK RESET**  
Issued in response to a SET PFK command. The PFK has been reset to have no associated value.
- MS0177**                    **PANELS DATASET IS EMPTY OR CONTAINS NO VALID PANELS**  
Issued in response to the PLOAD command. The member name you specified is empty or contains no valid panel definitions. No action has been taken and the original panel(s) are still available.
- MS0178**                    **PANEL NOT FOUND IN DATASET**  
Issued in response to the PLOAD command. The panel name specified cannot be found in the panel dataset.

- MS0179**                    **PANELS DD STATEMENT NOT INCLUDED AT STARTUP - RELOAD NOT SUPPORTED**  
Issued in response to the PLOAD command. The PANELS DD statement was not specified in the JCL, therefore MULTSESS/HPO was unable to action your request.
- MS0180**                    **ALL PANELS SUCCESSFULLY LOADED**  
Issued in response to the PLOAD command. MULTSESS/HPO has successfully loaded all user menu panels.
- MS0181**                    **PANEL SUCCESSFULLY LOADED**  
Issued in response to the PLOAD command. MULTSESS/HPO has successfully loaded the requested user menu panel.
- MS0182**                    **NO SESSION AVAILABLE ON WHICH TO RUN SCRIPT +SCRIPT**  
Issued in response to a RUN command. You have no session active using the specified alias name.
- MS0183**                    **SCRIPT IN PROGRESS**  
A script is currently running on the session to which you have just connected or reconnected. You may remain in this session in which case the results of the script will automatically be shown, or you may switch out of the session to continue other work.
- MS0184**                    **PANEL PFK SETTING NOT ALLOWED**  
You have entered a PANEL PFK command when you are not allowed. The PANEL PFK command can only be used when you are in extended panel mode and PFK update is available.
- MS0185**                    **REQUEST FOR +SCRIPT DENIED-SCRIPT ALREADY ACTIVE ON SESSION +SESSION**  
Issued in response to a RUN command. There is already a script running on this session. You may either issue a TERMRUN command and reissue your request, or you can allow the Script to finish.
- MS0186**                    **ATP PROCESSOR FAILED - SCRIPT +SCRIPT ON SESSION +SESSION ABANDONED**  
MULTSESS/HPO lost communication with the ATP processor during execution of the specified Script. If you reconnect to the session you may receive message MS0052 since ATP may not have supplied MULTSESS/HPO with a screen image. Refer to the description of MS0052 for further action.
- MS0187**                    **SCRIPT +SCRIPT BEING LOADED BY ATP**  
The script requested is being loaded by the ATP Processor.
- MS0188**                    **YOU ARE NOT AUTHORIZED TO RUN SCRIPT +SCRIPT - REQUEST REFUSED**  
Authorization to run the requested script has been denied. For further advice contact your MULTSESS/HPO administrator.
- MS0189**                    **SCRIPT +SCRIPT IS NOT AUTHORIZED FOR USE ON SESSION +SESSION**  
The requested script is not allowed on the requested session. For further advice contact your MULTSESS/HPO administrator.

- MS0190**                    **ATP +ATPCMD COMMAND ISSUED**  
Issued in response to the ATPCMD command. This message confirms that the command you have issued has been passed to the ATP processor. ATP commands are processed asynchronously. If the ATP command you entered produces a response, this will be displayed at a later time.
- MS0191**                    **SCRIPT NAME REQUIRED ON ATP RESET COMMAND**  
Issued in response to an ATPCMD command. The script name has been omitted from the RESET command. Correct, and reissue the command.
- MS0192**                    **PERMANENTLY LOADED ATP SCRIPT SUCCESSFULLY RESET**  
Issued in response to an ATP RESET command. The requested Script name has been successfully reset. ATP found it to have been a permanently loaded script. The next request for the script will cause a fresh copy to be loaded from the appropriate Script Library.
- MS0193**                    **ATP SCRIPT NOT FOUND FOR RESET**  
Issued in response to an ATP RESET command. The script name required was not found in ATP Storage.
- MS0194**                    **ATP SCRIPT ALREADY RESET**  
Issued in response to an ATP RESET command. The script name required has already been reset, therefore this command will be ignored.
- MS0195**                    **ATP SCRIPT SUCCESSFULLY RESET**  
Issued in response to an ATP RESET command. The requested script name has been successfully reset. The next request for the script will cause a fresh copy to be loaded from the appropriate script library.
- MS0196**                    **DYNAMIC STORAGE IN USE BY ATP IS +ATPSTAT K**  
Issued in response to an ATP DISPLAY command. Please refer to the ATP/HPO Installation and Operation manual for further information.
- MS0197**                    **STORAGE IN USE FOR ATP MODULES IS +ATPSTAT K**  
Issued in response to an ATP DISPLAY command. Please refer to the ATP/HPO Installation and Operation manual for further information.
- MS0198**                    **STORAGE IN USE FOR ATP SCRIPTS IS +ATPSTAT K**  
Issued in response to an ATP DISPLAY command. Please refer to the ATP/HPO Installation and Operation manual for further information.
- MS0199**                    **ATP MAXIMUM SUBTASKS EXCEEDED +ATPSTAT TIMES**  
Issued in response to an ATP DISPLAY command. Please refer to the ATP/HPO Installation and Operation manual for further information.
- MS0200**                    **ATP PROCESSOR NOT AVAILABLE**  
MULTSESS/HPO does not currently have access to an ATP processor. If the problem persists contact your MULTSESS/HPO administrator.

<b>MS0201</b>	<p><b>ERROR LOADING SCRIPT +SCRIPT ON SESSION +SESSION</b></p> <p>The ATP processor has detected an error whilst loading the requested script into storage. This message will be followed by one of MS0202 to MS0207 to further describe the error that has occurred.</p>
<b>MS0202</b>	<p><b>SCRIPT I/O PROCESSOR ABENDED</b></p> <p>Issued in association with MS0201 indicating the reason why the requested script cannot be loaded.</p>
<b>MS0203</b>	<p><b>SCRIPT LIBRARY +SCRLIB CANNOT BE LOCATED</b></p> <p>Issued in association with MS0201 indicating the reason why the requested script cannot be loaded.</p>
<b>MS0204</b>	<p><b>SCRIPT CANNOT BE FOUND IN LIBRARY +SCRLIB</b></p> <p>Issued in association with MS0201 indicating the reason why the requested script cannot be loaded.</p>
<b>MS0205</b>	<p><b>SCRIPT LIBRARY +SCRLIB CANNOT BE OPENED</b></p> <p>Issued in association with MS0201 indicating the reason why the requested script cannot be loaded.</p>
<b>MS0206</b>	<p><b>SYNTAX ERROR ON STATEMENT +SCRSTMT CODE +SCRCODE</b></p> <p>Issued in association with MS0201 indicating the reason why the requested script cannot be loaded.</p>
<b>MS0207</b>	<p><b>NO SCRIPT STORAGE AVAILABLE</b></p> <p>Issued in association with MS0201 indicating the reason why the requested script cannot be loaded.</p>
<b>MS0208</b>	<p><b>SCRIPT +SCRIPT ENDED ON SESSION +SESSION AT STATEMENT +SCRSTMT</b></p> <p>A script which has been running on a session has now terminated. The statement number gives the relative statement location which caused termination of the script. This message is only issued if a script error occurred or the Script was started with a TRACE option other than zero. In the case of an error MS0209 to MS0214 will further qualify this error.</p>
<b>MS0209</b>	<p><b>MAXIMUM GOTO LIMIT EXCEEDED - SCRIPT MAY BE LOOPING</b></p> <p>The MAXIMUM-GOTO limit specified for ATP has been exceeded. This message will always follow MS0208.</p>
<b>MS0210</b>	<p><b>INVALID CURSOR ADDRESS SPECIFIED</b></p> <p>Issued in association with MS0208 indicating the error in the requested script. This message will always follow MS0208.</p>
<b>MS0211</b>	<p><b>INVALID SCRIPT COMMAND DETECTED</b></p> <p>Issued in association with MS0208 indicating the error in the requested script. This message will always follow MS0208.</p>

- MS0212**                    **ATTEMPT TO ENTER DATA INTO PROTECTED FIELD**  
Issued in association with MS0208 indicating the error in the requested script. This message will always follow MS0208.
- MS0213**                    **GOTO LABEL NOT FOUND IN SCRIPT**  
Issued in association with MS0208 indicating the error in the requested script. This message will always follow MS0208.
- MS0214**                    **SCRIPT TERMINATED BY USER**  
The script was prematurely terminated by a TERMRUN request from the user.
- MS0215**                    **MAXIMUM STATEMENTS LIMIT EXCEEDED**  
The number of script statements executed has exceeded the value specified for the MAXIMUM-STATEMENTS startup parameter of ATP. Script processing is terminated. Check for a loop in the script logic or restart ATP specifying a larger value for the MAXIMUM-STATEMENTS parameter.
- MS0218**                    **SCRIPT +SCRIPT ENDED ON SESSION +SESSION**  
The script you have requested has successfully completed.
- MS0219**                    **STATEMENTS EXECUTED = +SCRSTMT - COMPLETION CODE = +SCRCOD**  
A script has finished. The number of statements executed and the completion code are reported.
- MS0220**                    **ATP DIRECTORY NOT INCLUDED AT STARTUP - RELOAD NOT SUPPORTED**  
Issued in response to the ATPDIR command. The ATPDIR DD statement was not specified in the JCL, therefore MULTSESS/HPO was unable to action your reload request.
- MS0221**                    **VTERM POOLING NOT INCLUDED AT STARTUP - RELOAD NOT SUPPORTED**  
Issued in response to the VPOOL command. The VPOOL DD statement was not specified in the JCL, therefore MULTSESS/HPO was unable to action your reload request.
- MS0222**                    **VPOOL DATASET CONTAINS A POOL WITH NO ACBNAMES**  
MULTSESS/HPO has received invalid input. A pool within the VPOOL DATASET does not contain any acbnames.
- MS0223**                    **NO VTERMS AVAILABLE IN POOL(S) +VTERM - SESSION REFUSED**  
Issued in response to the SESSION command, which requested the allocation of an ACB from one or more virtual terminal pools. No ACB is currently available in requested pool(s). Retry the command at a later time. If the problem persists contact your MULTSESS/HPO administrator.
- MS0224**                    **STATUS OF VTERM ACBS IN POOL=+VTPOOLN LOGMODE= +VTLGMDE:**  
Issued in response to the DISPLAY VPOOL command. This message will be followed by a listing of the status of all ACBs in the named virtual terminal pool.

- MS0225**                    **NO VIRTUAL TERMINAL POOL(S) DEFINED WHICH MATCH SPECIFICATION**  
Issued in response to the DISPLAY VPOOL command. No v pools could be found with names matching that specified on the command.
- MS0226**                    **TERMRUN ISSUED ON SESSION +SESSION**  
You have issued a TERMRUN command and the command has been forwarded to ATP.
- MS0227**                    **SESSION +SESSION NOT FOUND**  
You attempted to run a script against a session that does not exist.
- MS0228**                    **NO SCRIPT ACTIVE ON SESSION +SESSION**  
You attempted to terminate a script on a session for which no script was currently executing.
- MS0229**                    **USER +MSUSER IS ALREADY DISCONNECTED**  
In response to a DISCONNECT USERID, MULTSESS/HPO has detected that the user is already in a disconnect status. This command is ignored.
- MS0230**                    **DISCONNECT ISSUED FOR +MSUSER**  
In response to a DISCONNECT USERID, MULTSESS/HPO is disconnecting the user.
- MS0231**                    **USER +MSUSER IS ALREADY CONNECTED ON TERMINAL +MSTERM**  
A logon command has been entered for a user already logged on to MULTSESS/HPO.
- MS0232**                    **ENTER Y OR YES TO REMOTE DISCONNECT USER**  
This message follows MS0231 and requests a response from the user. If Y or YES is entered, the user is disconnected allowing a reconnection at this terminal.
- MS0233**                    **DISCONNECT ISSUED FOR +MSUSER ON +MSTERM - RETRY LOGON**  
In response to MS0232, MULTSESS/HPO is disconnecting the user. Please retry the logon to reconnect at this terminal.
- MS0234**                    **\*\*WARNING\*\* RECONNECTED WITH DIFFERING TERMINAL CHARACTERISTICS**  
You have successfully reconnected to MULTSESS/HPO. This warning message indicates that you are using a different terminal type to the type you were using when you previously logged on.
- MS0235**                    **SCREEN IMAGE RECEIVE ENABLED**  
In response to an IMAGE ON command, MULTSESS/HPO has put your terminal in a status of being able to receive screen images from another user via the IMAGE SEND command.
- MS0236**                    **SCREEN IMAGE RECEIVE DISABLED**  
In response to an IMAGE OFF command, MULTSESS/HPO has put your terminal in a status of refusing screen images from another user via the IMAGE SEND command. This prevents users from accidentally sending you screen images and interfering with your work.

- MS0237**                    **USER +MSUSER IS NOT ACCEPTING SCREEN SENDS**  
In response to an IMAGE SEND command, MULTSESS/HPO detected that the user specified was not receiving screen images. The IMAGE SEND has been ignored. Request the user to issue the IMAGE ON command before retrying.
- MS0238**                    **USER +MSUSER ALREADY HAS A SCREEN IMAGE QUEUED**  
You have attempted to send a screen image to a user who has not yet deleted his previously received image.
- MS0239**                    **SESSION +MSSESS NOT ACTIVE**  
You have attempted to send the screen image for a session that is not currently active.
- MS0240**                    **NO SCREEN IMAGE CURRENTLY STORED**  
You have attempted to View or Query a screen image when either one has not been sent or it has been deleted.
- MS0241**                    **STORED SCREEN IMAGE DELETED**  
You have successfully deleted the stored screen image.
- MS0242**                    **CURRENT IMAGE STORED +MSDATE1 +MSTIME1**  
This is in response to an IMAGE QUERY command, and reports the date and time the current image was received.
- MS0243**                    **NO SCREEN IMAGE AVAILABLE FOR SESSION +MSSESS**  
You have attempted to send a screen image but a current screen buffer could not be found for the requested session.
- MS0244**                    **SCREEN IMAGE FOR SESSION +MSSESS SENT TO USER +MSUSER**  
You have successfully sent a screen buffer copy to another user. The other user may now view it.
- MS0245**                    **CANNOT VIEW CURRENT STORED IMAGE DUE TO SCREEN SIZE INCOMPATIBILITY**  
The screen image sent to you by another user was from an incompatible screen size. To view this image you must reconnect at a terminal with a compatible screen size.
- MS0246**                    **USER = +MSUSER SESSION = +MSSESS SIZE = +MSSIZE**  
This follows MS0242 further qualifying the origin of the received image.
- MS0247**                    **SCREEN IMAGE RECEIVE IS +MSIMAG**  
This message reports whether or not you have enabled screen image receiving.
- MS0248**                    **USER +MSUSER IS ACTIVELY USING SESSION +MSSESS**  
You have attempted to get a screen image from another user. However, the user is currently active in this session. For integrity reasons, your GET request is refused.

<b>MS0249</b>	<p><b>VTerm NAME SPECIFIED IS INVALID</b></p> <p>You have entered a SESSION command to start a new session. However, the vterm name specified exceeds 8 characters. The SESSION command is ignored.</p>
<b>MS0251</b>	<p><b>MULTSESS/HPO KEY SET TO +MSKEY</b></p> <p>A SET MSKEY command has been successfully processed.</p>
<b>MS0252</b>	<p><b>COMMAND CHARACTER SET TO +CMDCHAR</b></p> <p>A SET CMDCHAR command has been successfully processed.</p>
<b>MS0253</b>	<p><b>INVALID/NON NUMERIC NUMBER OF SAMPLES</b></p> <p>You have entered a non numeric or out of range number of samples for ECHO. The valid range is 1 to 500.</p>
<b>MS0254</b>	<p><b>ECHOS SEND/RECEIVE FAILED</b></p> <p>VTAM has detected an error while running Echo. Please try again. If the error persists, contact your MULTSESS/HPO administrator.</p>
<b>MS0255</b>	<p><b>INVALID/NON NUMERIC RUSIZE</b></p> <p>You have entered a non numeric or out of range RU size. The valid range is 0 to 9990.</p>
<b>MS0256</b>	<p><b>ECHO TERMINATED BY USER</b></p> <p>You have pressed the &lt;Attn&gt; key while echo was running.</p>
<b>MS0257</b>	<p><b>PARALLEL SESSIONS NOT SUPPORTED - REQUEST REFUSED</b></p> <p>You have attempted a session with an application. MULTSESS/HPO has been notified by VTAM that a session between MULTSESS/HPO is already in progress and parallel sessions are not allowed.</p>
<b>MS0258</b>	<p><b>INVALID/NON NUMERIC WAIT TIME</b></p> <p>You have entered a non numeric or out of range wait time. The valid range is 0 to 30 seconds.</p>
<b>MS0259</b>	<p><b>DUPLICATE RU SIZES</b></p> <p>You have entered the same RU size for the echo command. This may be due to echo rounding down to the nearest 10.</p>
<b>MS0261</b>	<p><b>INFO FOR USER +MSUSER ON TERM +MSTERM USING LOGMODE +MSMODE</b></p> <p>In reply to a QUERY * command, MULTSESS/HPO has returned this message where +MSUSER, +MSTERM and +MSMODE are translated to your userid, the VTAM nodename and the logmode of your terminal. This message is followed by:</p> <ol style="list-style-type: none"> <li>1. a list of your allowed vterms with their symbolic names.</li> <li>2. a list of applications you can access via the SESSION command. Each entry is followed by the name of the vterm to be used with each session or N/A if one will not be used. An asterisk (*) indicates any of your vterms may be used, the default being the first in the list.</li> </ol>

- MS0262**                    **INVALID OPTION FOR PRINT**  
The option for screen image print is more than 1 character long.
- MS0263**                    **INVALID ALIAS FOR PRINT**  
The alias given for the screen image print command has more than 8 characters.
- MS0265**                    **PRINT COMMAND COMPLETE**  
The screen image PRINT command has completed.
- MS0266**                    **UNABLE TO OPEN LOGO FILE**  
The load logo (LLOAD) command has failed to open the logo file. This may be caused by a missing LOGO DD statement.
- MS0267**                    **UNABLE TO ALLOCATE LOGO FILE**  
The load logo (LLOAD) command was unable to allocate the logo file.
- MS0268**                    **REMOTE DISCONNECT ABORTED**  
You did not reply Y or YES to disconnect from another terminal.
- MS0269**                    **INVALID OR MISSING APPLICATION**  
The STOP, START, and MSGAPP commands require an application name containing 1 to 8 characters.
- MS0270**                    **TERMINAL CONNECTED DIRECTLY TO +MSESS**  
A connection has been successfully performed to a connect type application.
- MS0271**                    **APPLICATION +MSESS +MSCMD**  
A STOP or START command has been entered and an application has been found matching the specified name.
- MS0272**                    **APPLICATION STOPPED - REQUEST REFUSED**  
The application you are attempting to create a session with has been stopped and is not allowing any new sessions to be created.
- MS0273**                    **NO USERS CONNECTED TO APPLICATION +APPL**  
There are no users logged on to the application you are trying to send a message to.
- MS0274**                    **INVALID PARAMETER OR USE OF FORCE UNAUTHORIZED**  
The second parameter must be FORCE if present. You must also be authorized to use FORCE.
- MS0275**                    **MULTSESS/HPO IS NOT AUTHORIZED TO CONNECT TERMINALS**  
You have requested a session with an application of the connect type. This means that MULTSESS/HPO will pass your terminal over to the application for the duration of the session. However, this PASS has failed due to the omission of the 'AUTH=PASS' parameter in VTAMLST.

- MS0276                   \*\*WARNING\*\* RECONNECT TERMINAL DOES NOT SUPPORT +FEATURE**  
The terminal you are reconnecting to does not support the feature(s) that the terminal you were logged on to did.
- MS0277                   EDS NOW ENABLED FOR TERMINAL**  
Extended data stream will be used, if supported, on MULTSESS/HPO panels from now on.
- MS0278                   EDS NOW DISABLED FOR TERMINAL**  
Extended data stream will not be used for MULTSESS/HPO panels from now on.
- MS0279                   EDS OPTION INVALID**  
A SET EDS command was entered but neither ON nor OFF was specified.
- MS0280                   NEWPASSWORD ENTERED WITHOUT PASSWORD - ENTER PASSWORD**  
You have specified a new password but have not entered a password; enter password and respecify new password if required.
- MS0281                   PASSWORD/NEWPASSWORD ENTERED WITHOUT USERID**  
You have entered a password and/or new password, but no userid. Enter userid and respecify password and/or new password as required.
- MS0282                   PRINT EXIT NOT ENABLED - PRINT FAILED**  
The user exit TPEXIT04 has not been enabled. See the command EXIT on how to enable a user exit.
- MS0283                   USERID ID ALL SPACES RETRY**  
You have entered a userid of all spaces; re-enter.
- MS0284                   MSKEY SET TO ATTN NOT ALLOWED ON NON-SDLC TERMINAL**  
The <Attn> key for switching is only permitted on SDLC terminals.
- MS0285                   SCREEN SIZE PRIMARY= +PRIM : ALTERNATE= +ALT : SDLC =+YSNO**  
In response to a QUERY TERM command this message gives the primary and alternate screen sizes, and whether the terminal is SDLC or not.
- MS0286                   NO VARIABLE NAME ENTERED ON ATPVAR COMMAND**  
An ATPVAR command has been entered to either SET, DELETE, or QUERY an ATP variable; however, no variable name has been entered.
- MS0287                   INVALID VARIABLE NAME ENTERED ON ATPVAR COMMAND**  
The variable name entered on an ATPVAR command is invalid.
- MS0288                   ATP VARIABLE SET**  
The ATP variable specified in the command has been successfully set.

- MS0289**                    **ATP VARIABLE NOT FOUND**  
The ATP variable, specified in the ATPVAR command, cannot be found.
- MS0290**                    **ATP VARIABLE(S) DELETED**  
The ATP variable has, or all variables have, been deleted.
- MS0291**                    **USER EXIT +EXITNO IS +STATUS**  
In response to the EXIT command, this message gives the current status of the selected exit(s).
- MS0292**                    **SECOND PARM MUST BE QUERY, ENABLE OR DISABLE**  
An invalid parameter for the EXIT command has been entered.
- MS0293**                    **INVALID/MISSING USER EXIT NUMBER**  
The range of exits available are 0 to 7.
- MS0294**                    **UNABLE TO OPEN HOTNEWS FILE**  
The SET NEWSFILE command has failed to open the news dataset. This may be caused by a missing NEWS DD statement.
- MS0295**                    **UNABLE TO ALLOCATE HOTNEWS FILE**  
The SET NEWSFILE command was unable to allocate the news dataset. This may be caused by a missing NEWS DD statement.
- MS0296**                    **NO SESSION AVAILABLE FOR RECONNECTION**  
You have just issued a SESSION command without any further parameters and MULTSESS/HPO has determined that your last session has terminated. No session reconnection can therefore be performed.
- MS0297**                    **RE-ENTER YOUR NEWPASSWORD FOR VALIDATION**  
You must re-enter your new password. If it is found to be the same as on the previous screen it will be accepted
- MS0298**                    **NEWPASSWORD DOES NOT MATCH ON VALIDATION - RESTART**  
You have just entered your new password and it differs from the one on the logo sign-on screen. The logon will be aborted.
- MS0299**                    **UNKNOWN RACF ERROR CODE RETURNED**  
MULTSESS/HPO has attempted to verify your logon parameters using RACF. However, an unknown return code has resulted.
- MS0300**                    **USERID NOT DEFINED TO RACF**  
MULTSESS/HPO has attempted to verify your logon parameters using RACF. However, the userid entered is not defined in the RACF database.
- MS0301**                    **INVALID PASSWORD ENTERED**  
MULTSESS/HPO has attempted to verify your logon parameters using RACF. However, the password entered is not authorized for the userid.

- MS0302**                    **PASSWORD HAS EXPIRED, ENTER PASSWORD AND NEWPASSWORD**  
MULTSESS/HPO has attempted to verify your logon parameters using RACF. However, the password entered has expired and no new password was given.
- MS0303**                    **NEWPASSWORD IS INVALID, ENTER PASSWORD AND NEWPASSWORD**  
MULTSESS/HPO has attempted to verify your logon parameters using RACF. However, the new password entered is invalid.
- MS0304**                    **RACF FAILED BY INSTALLATION EXIT**  
MULTSESS/HPO has attempted to verify your logon parameters using RACF. However, the installation RACF exit has disallowed the logon request.
- MS0305**                    **YOUR ACCESS HAS BEEN REVOKED**  
MULTSESS/HPO has attempted to verify your logon parameters using RACF. However, the userid entered has been revoked for some reason and no logon is possible.
- MS0306**                    **RACF IS NOT ACTIVE IN SYSTEM**  
MULTSESS/HPO has attempted to verify your logon parameters using RACF. However, RACF is not currently active and so no logon is possible.
- MS0307**                    **USERID NOT AUTHORIZED TO TERMINAL**  
MULTSESS/HPO has attempted to verify your logon parameters using RACF. However, the userid entered is not allowed to logon from the current terminal.
- MS0308**                    **WARNING - ADT HAS BEEN UPDATED - PANEL MAY HAVE CHANGED**  
This message is displayed to users in dynamic panel mode when the in-storage copy of the Application Definition Table (ADT) has been refreshed. The contents of the dynamic panel menu area are built with reference to the ADT and may have been updated to reflect newly added or deleted applications.
- MS0309**                    **ERROR - MULTIPLE DEFINITIONS FOR SAME PFKEY**  
You have attempted to change the PF keys assigned for session selection and/or scrolling by overtyping the existing values. You have assigned the same PF key to more than one session, or you have assigned the same key for session selection and menu scrolling. If your menu has multiple pages, check the other pages for duplicate assignments. Amend or remove the offending entry and retry.
- MS0310**                    **THE CURSOR IS IN AN INVALID SCREEN LOCATION**  
You have pressed <Enter> without entering data into any of the panel input fields. MULTSESS/HPO has assumed you wish to connect to the application pointed to by the current cursor position. However, the cursor is not correctly positioned to enable MULTSESS/HPO to decide which application you require. To select an application by cursor, place the cursor within the dotted box which surrounds the list of applications and on the line describing the application you require.
- MS0311**                    **ERROR - AN INVALID APPLICATION NUMBER HAS BEEN ENTERED**  
The number entered in the command input area does not match an application on the menu. Enter a valid number as shown in the column headed ID.

- MS0312**                    **ERROR - A MODIFIED FIELD IS INVALID AND HAS BEEN IGNORED**  
You have entered an invalid value into an input field other than the command input area on line 23. Correct the data and re-enter. Refer to *Working in dynamic panel mode* on page 1.5 for details of valid options.
- MS0313**                    **YOU HAVE ACTIVE SESSIONS - DISCONNECT NOT ALLOWED**  
Your request to disconnect has been refused. Your MULTSESS/HPO administrator has specified the DISCONNECT-WITH-SESSIONS=NO startup parameter, which means you may only disconnect after you have terminated all your application sessions. Close down all active sessions using the TERM ALL command before reissuing the disconnect request.
- MS0314**                    **+SESSION SETUP FAILURE - SESSION CANCELLED**  
MULTSESS/HPO has attempted to respond to a BIND request from an application. However, since the BIND request was received by MULTSESS/HPO, the application is no longer available. The NODENAME of the application is given in the message.
- MS0315**                    **PFK NOT DEFINED**  
You have attempted to use a PFK that has either not yet been defined by a SET command or is not in use in the dynamic panel.
- MS0316**                    **NO STRINGS SELECTED FOR COPY FUNCTION**  
You have attempted to display the selected strings or attempted to proceed to the destination screen, but no strings have been set up using the PFK pairs.
- MS0317**                    **COPY NOT SUPPORTED ON PARTITIONED SESSION**  
The COPY command cannot be used because at least one of the sessions involved is using explicit display partitions. This occurs when an application sends data containing a Create Partition structured field in order to use a presentation space that may not be the same size as the physical screen, or to define more than one Viewport.
- MS0318**                    **NIM NOW ENABLED SSCT ID=XXXX**  
The status of applications will now be determined by cross memory reference to a table controlled by the Node Information Manager whose id (i.e. XMSYS name) is XXXX, rather than by making individual VTAM Inquire requests. This message is issued when processing of a SET NIM ON or SET NIM xxxx command has completed successfully. NC-NIM is a proprietary program product of PassGo Technologies Ltd.
- MS0319**                    **NIM NOW DISABLED**  
The status of applications will now be determined by making individual VTAM Inquire requests, rather than by cross memory reference to a table controlled by the Node Information Manager. This message is issued once processing of a SET NIM OFF command has completed successfully. NC-NIM is a proprietary program product of PassGo Technologies Ltd.

**MS0320****NIM OPTION INVALID**

The SET NIM xxxx command has been issued in order to alter the way that the status of applications is to be determined, but xxxx was not ON or OFF or the id (i.e. the XMSYS name) of an active Node Information Manager. NC-NIM is a proprietary program product of PassGo Technologies Ltd.

**MS0336****PRINT FAILED - ALTERNATE SCREEN SIZE ZERO**

The print function did not complete because the device displaying the screen image was in alternate mode but no alternate screen size was available to MULTSESS. A possible reason for this is that the device claimed that it supported Read Partition Query List (RPQL), but did not subsequently send all information in the RPQL. A customization fix is available to avoid this problem.

## Part 2 - System operator messages

Certain messages may be output by MULTSESS/HPO to inform the MVS system operator of particular events. These messages are output via SVC 35 (WTO) using route codes 2 and 11.

### WTO table

The following is a list of possible WTOs. Each WTO begins with the name of the module that issued it. An explanation of the message and any action that should be taken is also provided.

#### Module

#### WTO and Description

##### **MULTSESS - ATTEMPTING RECOVERY ON TERMINAL xxxxxxxx - POSSIBLE HANG**

MULTSESS/HPO has forwarded data to terminal 'xxxxxxx', but the terminal has not acknowledged receipt.

*ACTION - Issue 'V NET,INACT,F,ID=XXXXXXXX'.*

##### **MULTSESS - COMMAND REJECTED - MULTSESS & CMD IN PROGRESS**

A command entered via an MVS MODIFY (F) OR STOP (P) command cannot be actioned because MULTSESS/HPO is already processing a command on behalf of the MVS operator, possibly entered from a different console. Reenter the command at a later time.

##### **MULTSESS - CONNECTION TO ATP ADDRESS SPACE PENDING**

Connection to the ATP address space was requested by the inclusion of an ATP-NODENAME startup parameter. MULTSESS/HPO has attempted to establish connection with ATP, but was unable to do so. This may be because the ATP address space is not active, or is not using the expected VTAM ACB. MULTSESS/HPO will repeat the attempt to connect at 60 second intervals.

##### **MULTSESS - CONNECTION TO ATP SUCCESSFULLY ESTABLISHED**

Connection to the ATP address space was requested by the inclusion of an ATP-NODENAME startup parameter. The connection is now in place and ATP script requests may be issued.

##### **MULTSESS - ERROR IN TPVTAMP ENCOUNTERED - USER MAY BE HANGING**

An error was encountered within the MULTSESS/HPO virtual terminal processor. MULTSESS/HPO has recovered. However, a user may be left in an 'unknown' status.

*ACTION - FORCE any user session that appears to be hanging.*

##### **MULTSESS - MULTSESS IS NOT LICENSED FOR THIS CPU**

This message indicates that your product code has expired. The WTO will be issued 5 times and is non-rollable.

*ACTION - If this message occurs during a trial, contact your Support Office for an extension code.*

*If this message occurs outside a trial period, contact your Support Office to find out why the CODE has expired.*

##### **MULTSESS - MULTSESS TERMINATION COMPLETE**

MULTSESS/HPO has terminated normally as a result of a SHUTDOWN command.

### **MULTSESS - PERMANENT ERROR CONNECTING TO ATP - ATP DISABLED**

MULTSESS/HPO has issued an 'OPNDST ACQUIRE' to establish connection with the ATP address space. The request has been rejected with a code of X'1455' indicating that MULTSESS/HPO is not authorized to issue 'OPNDST ACQUIRE' requests. MULTSESS/HPO will continue operation without access to the ATP scripting facility. Add an AUTH=ACQ parameter to the MULTSESS/HPO ACB definition in SYS1.VTAMLST if MULTSESS/HPO is to communicate with the ATP address space.

### **MULTSESS - SYSTEM ENQUEUE LOST OR PERMISSIBLE USERS EXCEEDED**

Contact your local support representative.

### **MULTSESS - WARNING APPLICATION xxxxxxxx NOT ACCEPTING REQSESS FROM USER userid AT VTERM termid**

A user has attempted to establish a session with an application, but the application has not accepted the session as expected, possibly because the application itself has hung.

### **MULTSESS-WARNING APPLICATION VTERM acbname NOT ACCEPTING DATA FROM USER userid**

MULTSESS/HPO has forwarded terminal input data to an application, but the application has not acknowledged receipt as expected, possibly because the application itself has hung. MULTSESS/HPO will wait for the expected response and no data can be processed for any MULTSESS/HPO user.

This message will be reissued every 10 seconds until the target application responds or the session is terminated. If this message appears twice, the offending session should be forced to allow other MULTSESS/HPO users to continue working.

#### **Note**

If MULTOPER=YES was specified at MULTSESS/HPO startup time, any MULTSESS/HPO command may be issued from an MVS console as the text of a MODIFY (F) command. In this case, any MULTSESS/HPO message that may be issued in response to commands will be sent as a WTO to the MVS console that issued the command.

### **TPCARD - UNABLE TO LOAD INITIALIZATION ROUTINE**

TPCARD is either missing or unusable.

### **TPCP1 - ERROR DURING ATTACH OF SUBTASK**

An error was detected by MULTSESS creating a new subtask.

*ACTION - Restart MULTSESS/HPO and report the problem to your local Support Office.*

### **TPCP1 - MULTSESS INITIALIZATION IN PROGRESS**

MULTSESS/HPO is carrying out the initialization process.

### **TPINIT - ATP NOT REQUESTED**

This is a warning message indicating that the ATP-NODENAME parameter was not included in the startup parameter. The ATP script processing facility will not be available.

### **TPINIT - CONSOLE DD STATEMENT NOT CODED**

An attempt was made to initialize MULTSESS/HPO without the CONSOLE DD statement.

*ACTION - Refer to abend code 204 in the section ABEND CODES later in this manual.*

### **TPINIT - ERROR DURING INITIALIZATION OF STIMER ROUTINE**

An error occurred during initialization of the MULTSESS/HPO housekeeping timer routine.

*ACTION - Refer to Abend Code 210 in the ABEND CODES section of this manual.*

### **TPINIT - MULTSESS INITIALIZATION COMPLETE**

MULTSESS/HPO has successfully initialized and is ready to process user requests.

### **TPINIT - MULTSESS NOW ACCEPTING MODIFY COMMANDS**

The facility to enter MULTSESS/HPO commands from MVS system consoles is enabled. MODIFY (F) and STOP (P) commands may be used to issue MULTSESS/HPO commands.

### **TPINIT - MULTSESS UNABLE TO OBTAIN SYSTEM-WIDE ENQUEUE**

Contact your local support representative.

### **TPINIT - MULTSESS WAITING FOR ACB .....**

MULTSESS/HPO has attempted to open its ACB without success. The error is of a recoverable nature, such as an inactive node. MULTSESS/HPO is waiting for its ACB to become active.

*ACTION - No action may be needed. For instance, if MULTSESS/HPO is started at IPL time, MULTSESS/HPO will wait for VTAM to initialize and complete its own initialization when the ACB becomes active.*

*If the message MULTSESS/HPO INITIALIZATION COMPLETE is not eventually received, check the status of the VTAM APPL nodes.*

### **TPINIT - UNABLE TO LOAD INITIALIZATION ROUTINE**

TPINIT is either missing or unusable.

### **TPINIT - UNABLE TO LOAD LOGO MODIFIER**

An error occurred while MULTSESS/HPO was loading the module TPLOGO from the STEPLIB library.

*ACTION - Refer to Abend Code 208 in the ABEND CODES section of this manual.*

### **TPINIT - WAITING FOR ACB ACTIVATION - COMMAND IGNORED**

MULTSESS/HPO is waiting for activation if its ACB. The only MVS console command valid at this time is a STOP (P) command.

### **TPINIT - \*\*WARNING\*\* YOUR MULTSESS LICENSE EXPIRES WITHIN 14 DAYS**

Your trial period expires soon. Contact your local sales representative.

### **TPSTIMER - CATASTROPHIC ERROR WITHIN HOUSEKEEPING ROUTINE**

An error was encountered within a MULTSESS/HPO housekeeping routine.

*ACTION - Give the SYSUDUMP produced by MULTSESS/HPO to your local Support Office.*

## Part 3 - Error codes and messages

The following pages describe abend codes that may occur when MULTSESS/HPO detects a non-recoverable error condition, and error messages that can be written to the console file.

In the event of an abend, the following items of information should be made available to your local support office:

- MVS Console listing at time of error.
- Dump produced by MULTSESS.
- Console listing produced by MULTSESS.
- Your MULTSESS Version (available via the VERSION command).
- Your maintenance level (available via the FIX command).
- The JCL used to run MULTSESS.
- The Directory of users and the ADT.

### Error codes

CODE	DESCRIPTION	ACTION
201	<p>MULTSESS found an error in your Application Definition Table (ADT) during initialization.</p> <p>The ADT is defined by the APPLIDS DD statement in the JCL used to run MULTSESS. All statements in error and a description of the errors will be written to the CONSOLE DD file.</p> <p>For more information regarding the format of the ADT, refer to <i>Chapter 3 - Defining applications to MULTSESS/HPO</i> in the User Installation Manual.</p>	<p>Correct any statement in error and restart MULTSESS.</p> <p>If the problem persists contact your Support Office.</p>
202	<p>MULTSESS was unable to find load module TPINIT during initialization processing.</p> <p>Verify that the STEPLIB DD card in the STARTUP JCL points to the correct dataset or that the library is specified correctly in the 'LNKLSTXX' member of SYS1.PARMLIB.</p> <p>If no error can be found, the module must have been inadvertently deleted or an error occurred during product installation.</p>	<p>If an invalid library has been specified, correct the error; otherwise reinstall the product using the tape supplied.</p> <p>If the problem persists contact your Support Office</p>

CODE	DESCRIPTION	ACTION
203	<p>MULTSESS detected an error in your Directory Of Users during initialization. The directory is defined by the DIRECT DD statement in the JCL used to run MULTSESS.</p> <p>All statements in error and a description of the errors have been written to the CONSOLE DD file.</p> <p>For more information regarding the format of the directory, refer to <i>Chapter 4 - Defining users to MULTSESS/HPO</i> in the User Installation Manual.</p>	<p>Correct any statement in error and restart MULTSESS.</p> <p>If the problem persists contact your Support Office.</p>
204	<p>An error occurred during initialization processing because MULTSESS could not locate the 'CONSOLE' DD statement. Probable missing DD statement or typing error.</p>	<p>Verify that the MULTSESS STARTUP JCL contains a DD statement with a DDNAME of CONSOLE and that it relates to a SYSOUT file or a valid sequential dataset.</p> <p>After correcting the DD statement restart MULTSESS.</p> <p>If the problem persists contact your Support Office.</p>
205	<p>MULTSESS encountered an error during initialization from which it could not recover. An information message about the error has been written to the CONSOLE DD file.</p>	<p>Correct the error indicated and restart MULTSESS.</p> <p>If the problem persists, contact your Support Office.</p>
206	<p>A SHUTDOWN command was issued and MULTSESS found that one of its subtasks had previously abended. To ensure that all relevant storage is available for analysis, an abend has been forced.</p>	<p>Report the problem to your Support Office.</p>
207	<p>The main ACB under which MULTSESS is running has been deactivated. Probable operator error or VTAM failure.</p>	<p>Verify the reason for the ACB closure, reactivate the node defining the ACB and restart MULTSESS.</p>
208	<p>An error was encountered whilst loading the MULTSESS logo modification routine TPLOGO.</p>	<p>Verify the installation procedure before restarting MULTSESS.</p> <p>If the problem persists contact your Support Office.</p>

CODE	DESCRIPTION	ACTION
<b>209</b>	An error occurred during an ATTACH of a subtask processor. This is probably caused by an error during installation or may indicate that the region size is too small.	Verify the installation procedure before restarting MULTSESS. If the problem recurs increase the virtual storage size on the EXEC statement and restart MULTSESS.  If the problem persists contact your Support Office.
<b>210</b>	An error occurred during initialization processing because MULTSESS could not load the housekeeping routines. This is probably caused by an error during installation.	Verify the installation procedure before restarting MULTSESS.  If the problem persists contact your Support Office.
<b>211</b>	MULTSESS detected an error in your Directory of Users during initialization. The directory is defined by the ATPDIR DD statement in the JCL used to run ATP.  All statements in error, and a description of the errors, have been written to the CONSOLE DD file.	Correct any statement in error and restart MULTSESS.  If the problem persists contact your Support Office.
<b>212</b>	MULTSESS detected an error in your Directory of Users during initialization. The directory is defined by the VPOOL DD statement in the JCL used to run MULTSESS.  All statements in error, and a description of the errors, have been written to the CONSOLE DD file.	Correct any statement in error and restart MULTSESS.  If the problem persists contact your Support Office.
<b>299</b>	The MULTSESS subtask ESTAE recovery routine could not recover. This normally means that MULTSESS has used up all available storage.	Verify the amount of storage available before restarting MULTSESS.  If the problem persists contact your Support Office.

## Error messages

During normal running MULTSESS/HPO writes information and error messages to its console file which provide useful trace back in the event of errors. The messages range from simple information types, which indicate when users logon and create sessions etc., to diagnostic messages if MULTSESS/HPO fails to initialize successfully.

The following pages list and describe messages that can be written to the console file. The name of the module issuing the message is also indicated and should be given to your Support Office in case of a query.

### **TPADIRE - ABOVE ATP DIRECTORY CARDS INVALID OR MISPLACED**

During initialization, MULTSESS/HPO detected syntax errors in the ATP control table member. The invalid cards have been written to the CONSOLE DD file before the message.

### **TPADIRE - MULTSESS ABENDING DUE TO ABOVE ERRORS**

MULTSESS/HPO initialization has been terminated because of the errors encountered during an attempt to build the ATP control table. The invalid cards and associated error messages have been written before this message.

### **TPADIRE - UNABLE TO OPEN ATP DIRECTORY**

Either during initialization stage or an on-line update of the ATP control table, MULTSESS/HPO could not open the dataset containing the ATP control table. This can be due to an I/O error or device malfunction.

### **TPADIRE - \*\*\* INVALID CARD \*\*\***

During initialization, MULTSESS/HPO detected a syntax error in an ATP control table. The invalid card is written to the console.

### **TPAPPL - ABOVE ADT CARDS ARE INVALID OR MISPLACED**

During initialization, MULTSESS/HPO detected syntax errors in the primary ADT member. The invalid cards will be written to the console before the message.

### **TPAPPL - MULTSESS ABENDING DUE TO ABOVE ERRORS**

MULTSESS/HPO initialization has been terminated because of the errors encountered trying to build the ADT. The invalid cards and associated error messages will be written to the console before this message.

### **TPAPPL - NO APPLICATIONS FOUND IN ADT**

The Application Definition Table, pointed to by the APPLIDS DD statement, contains no valid application definitions. MULTSESS/HPO initialization fails. Refer to *Chapter 3 - Defining applications to MULTSESS/HPO* in the MULTSESS/HPO User Installation Manual.

### **TPAPPL - UNABLE TO OPEN ADT**

Either during initialization stage or an on-line update of the Application Definition Table, MULTSESS/HPO was unable to open the dataset containing the ADT. This can be due to an I/O error or device malfunction.

### **TPAPPL - \*\*\* INVALID CARD \*\*\***

During initialization, MULTSESS/HPO detected a syntax error in an ADT control card. The invalid card is written to the console.

**TPATOPEN - ATTEMPTED CONNECTION TO ATP FAILED RTNCD=*rc* FDBK=*code***

MULTSESS/HPO has unsuccessfully attempted to start a session with ATP using the nodename specified in the ATP-NODENAME startup parameter. Check that this parameter was correctly specified and that the ATP address space is active. Refer to SNA Reference Summary for details of return codes. MULTSESS/HPO will attempt to connect again in one minute.

**TPATOPEN - CONNECTION TO ATP SUCCESSFULLY ESTABLISHED**

MULTSESS/HPO has successfully initiated a session with ATP. The scripting facility is available for use.

**TPCLSDST - *userid* DISCONNECTED FROM *luname***

The specified user has been disconnected from MULTSESS/HPO.

**TPVLOSTE - USER CONNECT LOGGED OFF**

A terminal displaying the MULTSESS/HPO logo has been logged off by the LOSTERM exit because of a terminal error.

**TPCOMP1 - INVALID CHARACTER FOR COMPRESSION ROUTINE**

Whenever possible MULTSESS/HPO attempts to compress its screen data before sending it to the terminal, in an effort to reduce network traffic. An illegal character that the compression routines could not handle has been detected. This is an information-only message indicating that the screen will be sent without compression. The offending character will be printed after this message.

**TPCOMP2 - INVALID CHARACTER FOR COMPRESSION ROUTINE**

The screen data for a user's inactive sessions is held in compressed format in an effort to reduce the real and virtual storage requirements. An illegal character that the compression routines could not handle has been detected. This is an information-only message indicating that the screen will be held in storage without compression. The offending character will be printed after this message.

**TPCONSOL - \*\*\* USER DEFINED CONSOLE MESSAGE \*\*\***

Authorized users can write to the MULTSESS/HPO CONSOLE file to document traces or error conditions before giving the console file to the Support Office for analysis. MULTSESS/HPO will prefix the message with the userid of the issuing user.

**TPCP1 - INPUT MESSAGE TRUNCATED**

MULTSESS/HPO received a Request Unit (RU) from an application that exceeded the value specified by the MAXIMUM-RUSIZE startup parameter. The data is truncated at the MAXIMUM-RUSIZE value which may result in missing information at the user's terminal.

**TPDEFINE - APPLICATION DIRECTORY UPDATED BY USER *userid* WITH MEMBER *member***

The in-storage copy of the Application Definition Table (ADT) has been updated by *userid* using the DEFINE command.

**TPDIRE - ABOVE DIRECTORY CARDS INVALID OR MISPLACED**

During initialization, MULTSESS/HPO detected syntax errors in the directory of users, pointed to by the DIRECT DD card. The invalid cards are written before this message.

**TPDIRE - MULTSESS ABENDING DUE TO ABOVE ERRORS**

MULTSESS/HPO initialization has been terminated because of the errors encountered trying to build the directory of users. The invalid cards and associated error messages are listed before this message.

**TPDIRE - UNABLE TO OPEN DIRECTORY**

Either during initialization stage or an on-line update of the directory of users, MULTSESS/HPO could not open the dataset that contains the directory. This can be due to an I/O error or device malfunction.

**TPDIRE - \*\*\* INVALID CARD \*\*\***

During initialization, MULTSESS/HPO detected a syntax error in the directory of users, pointed to by the DIRECT DD card. The invalid card is listed.

**TPDIRECT - DIRECTORY UPDATED BY USER *userid* WITH MEMBER *member***

The in-storage version of the Directory of Users has been updated by *userid* using the DIRECT command.

**TPDISCON - USER *userid* DISCONNECTED**

User *userid* has disconnected from MULTSESS/HPO.

**TPFORCE - USER *userid* FORCED OFF BY *forcuser***

User *forcuser* issued a FORCE *userid* command, MULTSESS/HPO has flushed *userid* and all his sessions from the system.

**TPHEXPR - \*\*\* HEX PRINT OF DATA \*\*\*\***

When TPTRACE is requested, lines of hexadecimal data are printed of relevant events.

**TPIDLE - SESSION *alias* TERMINATED FOR *userid* DUE TO APPLTIME LIMIT**

A user session was terminated because the time that has elapsed since last referencing the session exceeded the maximum allowed by the installation.

**TPIDLE - SESSION *alias* TERMINATED FOR *userid* DUE TO SESSION LIMIT**

A user session was terminated because the amount of data received on an inactive session has exceeded the maximum specified in the SESSION-LIMIT startup option.

**TPIDLE - USER *userid* DISCONNECTED DUE TO USERTIME LIMIT**

The *userid* has been disconnected as no terminal activity has occurred for the period specified by the USER-IDLETIME startup parameter. The user's sessions remain active.

**TPIDLE - USER *userid* LOGGED OFF DUE TO USERTIME LIMIT**

Disconnected user *userid* has been logged off as the user has not reconnected within the time limit specified by the USER-IDLETIME startup parameter.

**TPIMAGE - IMAGE GET BY USER *user1* FOR USER *user2* SESSION *sess***

User *user1* issued an IMAGE GET command to capture a copy of the latest screen image from user *user2* session *sess*.

**TPINIT - 'ACBNAME' PARAMETER NOT SPECIFIED**

The ACBNAME= startup parameter was not present. This parameter is mandatory. Message originates from **TPCARD**.

**TPINIT - ADDRESS SPACE MARKED NON-SWAPPABLE**

This information message indicates that MULTSESS/HPO has made itself non-swappable.

**TPINIT - ADDRESS SPACE RUNNING SWAPPABLE**

This warning message indicates that MULTSESS/HPO is running from a non-authorized library and has been unable to make itself non-swappable. Execution continues, but response times may fluctuate in a heavy paging/swapping environment.

**TPINIT - 'APPLIDS' DD CARD MISSING OR DUMMY**

During initialization, MULTSESS/HPO detected that the APPLIDS DD statement defining the ADT was not coded. This file is mandatory and MULTSESS/HPO initialization will fail.

**TPINIT - 'ATP-MAXIMUM-RUSIZE' VALUE IS INVALID**

The value entered for the ATP-MAXIMUM-RUSIZE startup parameter is invalid. The value should be *nnnK* or *nnn* to specify a value in Kbytes, or *nnnB* to specify a value in bytes. Message originates from TPCARD.

**TPINIT - ATP NOT AVAILABLE**

The ATP-NODENAME startup parameter was not present. No connection to the ATP address will be attempted. No ATP scripts may be run.

**TPINIT - ATTEMPT TO SET MAXUSERS ABOVE MAXIMUM ALLOWED FOR THIS VERSION OF MULTSESS**

The startup parameter MAXIMUM-USERS has tried to set maxusers above the maximum allowed by your license. Maxusers has been set to the maximum allowable value. Message originates from TPCARD.

**TPINIT - 'CONCURRENT-SESSIONS' VALUE NOT IN RANGE 1 TO 255**

The CONCURRENT-SESSIONS startup option is invalid. Permitted value is numeric 1 to 255. Message originates from TPCARD.

**TPINIT - 'CONCURRENT-SESSIONS' VALUE NOT NUMERIC**

The CONCURRENT-SESSIONS startup option specifies a non-numeric value. Permitted value is numeric 1 to 255. Message originates from TPCARD.

**TPINIT - DATE FORMAT INCORRECT**

The DATE= startup option is invalid. See *Chapter 5 - Pre-startup and startup options* in the User Installation Manual for details of permissible values. Message originates from TPCARD.

**TPINIT - 'DIRECT' DD CARD MISSING OR DUMMY**

During initialization, MULTSESS/HPO detected that the APPLIDS DD statement defining the ADT was not coded. This file is mandatory and MULTSESS/HPO initialization will fail.

**TPINIT - ERROR DURING INITIALIZATION OF VTAM SUBTASK PROCESSOR**

An error occurred during an attempt to ATTACH the VTAM processor. Probable cause is a lack of virtual storage or an error during installation. Ensure that the DCB for the library containing the TPVTAMP module is correct and that it is not in multiple extents.

**TPINIT - ERROR DURING OPEN OF ACB - ERROR CODE = X'nn'**

MULTSESS/HPO encountered an error during an attempt to open its ACB for use. Refer to VTAM Programming Manual for description of the error code. For non-critical errors, MULTSESS/HPO will wait for the ACB to become active.

**TPINIT - ERROR DURING SETLOGON**

During initialization MULTSESS/HPO encountered an error while issuing the SETLOGON command to VTAM. This can result from an error during installation or may be a real VTAM error. Verify the installation procedure and check the MVS console for any VTAM error messages before restarting MULTSESS/HPO. MULTSESS/HPO initialization will fail.

**TPINIT - 'EXIT' PARAMETER IS INVALID**

The value coded for the EXIT= startup parameter contains more than 9 digits or includes digits other than 0 through 8. Message originates from TPCARD.

**TPINIT - 'HELP' DD CARD MISSING OR DUMMY**

During initialization, MULTSESS/HPO detected that the HELP DD statement was not coded. Execution continues, but no on-line HELP information for MULTSESS/HPO commands will be available.

**TPINIT - INITIALIZATION COMPLETE**

MULTSESS/HPO is ready to accept user logons.

**TPINIT - INVALID STARTUP PARAMETER CODED**

During initialization, MULTSESS/HPO detected a syntax error in a STARTUP control card. The invalid card is listed after this message. Message originates from TPCARD.

**TPINIT - 'LOGO' DD CARD MISSING OR DUMMY**

During initialization, MULTSESS/HPO detected that no user logo dataset was present. Processing continues using the MULTSESS/HPO default logo.

**TPINIT - 'MAXIMUM-RUSIZE' VALUE IS INVALID**

The MAXIMUM-RUSIZE startup option is invalid. Please see *Chapter 5 - Pre-startup and startup options* in the User Installation Manual for further details. Message originates from TPCARD.

**TPINIT - 'MAXUSERS' VALUE NOT NUMERIC**

The MAXUSER= startup option was specified incorrectly. Permitted values are numeric 1 to 9999 only. Message originates from TPCARD.

**TPINIT - MODULE *module* LOADED AT *addr* LENGTH = *len* BYTES**

MULTSESS/HPO is initializing and has successfully loaded the indicated module. Message originates from both TPINIT and TPCARD.

**TPINIT - 'MSGLIB' DD CARD MISSING OR DUMMY**

During initialization, MULTSESS/HPO detected that the MESSAGE DD statement was missing. Execution continues, but on-line help text for MULTSESS/HPO messages will be not available.

**TPINIT - MULTSESS ABENDING DUE TO ABOVE ERRORS**

Execution of MULTSESS/HPO has been terminated because of errors during initialization. Messages indicating the errors have been written before this message.

**TPINIT - 'MVS/XA=YES' INVALID FOR THIS OPERATING SYSTEM**

You have coded the MVS/XA=YES startup parameter and MULTSESS/HPO is running on a non-XA system. Message originates from TPCARD.

**TPINIT - 'NEWS' DD CARD MISSING OR DUMMY**

During initialization, MULTSESS/HPO detected that no news dataset was present. Processing continues but the news variables &SYSNEWSn will contain nulls.

**TPINIT - NO ATP DIRECTORY SPECIFIED**

Connection to the ATP address space was requested by inclusion of the ATP-NODENAME startup parameter. However, no ATPDIR DD statement was present in the JCL. The ATP feature is available. Unrestricted access to the Public Script Library is available. This is a warning message only.

**TPINIT - NO VPOOL DATASET SPECIFIED - VTERM POOLING WILL NOT BE USED**

The VPOOL DD statement was not present in the MULTSESS/HPO JCL. The virtual terminal pooling technique is disabled.

**TPINIT - PARAMETER IGNORED FOR THIS RELEASE OF MULTSESS**

A startup parameter has been coded which has been superseded by this release. Message originates from TPCARD.

**TPINIT - 'PROFILE' DD CARD LRECL NOT 120**

The dataset pointed to by the PROFILES DD statement does not have the correct record length of 120 bytes. MULTSESS/HPO initialization will fail.

**TPINIT - 'PROFILE' DD CARD MISSING OR DUMMY**

The PROFILE DD statement is missing. Execution continues, but no profiles will be processed for users at logon time.

**TPINIT - 'SAC PRTY' VALUE NOT NUMERIC**

The SAC-PRTY= startup option was specified incorrectly. Permitted values are numeric 1 to 15 only. Message originates from TPCARD.

**TPINIT - 'SESSION LIMIT' VALUE NOT NUMERIC**

The 'SESSION-LIMIT' startup option is invalid. Permitted values are numeric 0 to 9999, where 0 indicates no limit. Message originates from TPCARD.

**TPINIT - THE FOLLOWING FIXES HAVE BEEN APPLIED:**

Issued at startup time. A matrix is displayed indicating which fixes have been applied to this version of MULTSESS/HPO.

**TPINIT - THE PANELS DATASET IS EMPTY OR CONTAINS NO VALID PANELS**

The dataset pointed to by the PANELS DD statement contains no valid installation defined menu panels. Normal MULTSESS/HPO operation continues. This is a warning message only.

**TPINIT - UNABLE TO LOAD MULTSESS LOGMODE TABLE**

During initialization, MULTSESS/HPO encountered an error during an attempt to load module MULTSESS/HPO from the load library. This may be due to a lack of virtual storage or an error during installation. Ensure that the DCB for the MULTSESS/HPO load library is correct and that it is not in multiple extents. This will cause MULTSESS/HPO initialization to fail.

**TPINIT - 'USER-IDLETIME' VALUE NOT NUMERIC**

The USER-IDLETIME startup option was specified with a non-numeric value. Possible values are numeric 0 to 9999, where a value of 0 signifies that no timing is to be performed. Message originates from TPCARD.

**TPINIT - \*\*\* CODE SUPPRESSED \*\*\***

A CODE= startup parameter has been encountered. For security reasons the printing of the code itself is suppressed. Message originates from TPCARD.

**TPLOGMOD - LOGMODE FOR TERMINAL *luname* FOLLOWS:**

Terminal *luname* attempted to connect to MULTSESS/HPO but a match could not be found for the terminal characteristics in the logmode table, member MULTSESS/HPO in the load library. The required logmode definition, which should be added to the MULTSESS/HPO table, follows this message.

**TPLOGMOD - FMPROF=X,TSPROF=X,PRIPROT=X,SECPROT=X,COMPROT=X, RUSIZES=X**

These fields form part of the logmode definition required for the terminal to use MULTSESS/HPO. The PSERVIC value follows this message. Refer to *Chapter 5 - MULTSESS/HPO use of logmodes* in the Technical Reference Manual for further details.

**TPLOGMOD - PSERVIC=X'XXXXXXXXXXXXXXXXXXXXXXXXXXXX'**

This field forms part of the logmode definition required for the terminal to use MULTSESS/HPO. Refer to *Chapter 5 - MULTSESS/HPO use of logmodes* in the Technical Reference Manual for further details.

**TPLOGMOD - TERMINAL *luname* HAS AN INVALID PRIMARY SCREEN SIZE**

The *luname* attempted to connect to MULTSESS/HPO with a logmode that defined an invalid primary screen width. All screens used with MULTSESS/HPO must have a primary screen width of 80 bytes.

**TPLOGMOD - TERMINAL *luname* IS NOT LUTYPE0 OR LUTYPE2**

Terminal *luname* attempted to connect to MULTSESS/HPO, but the logmode used indicated that it is not one of the range of devices supported by MULTSESS/HPO. LUTYPE0 and LUTYPE2 only are supported.

**TPLOGOFF - USER *userid* LOGGED OFF TERMINAL *luname***

User *userid* logged off from terminal *luname*.

**TPLOGON - USER *userid* LOGGED ON NODE *luname***

User *userid* logged on to MULTSESS/HPO at terminal *luname*.

**TPLOGON - USER *userid* RECONNECTED ON *luname***

User *userid* reconnected to MULTSESS/HPO on terminal *luname*.

**TPLOGON - INVALID LOGON ATTEMPTED BY *user* ON TERMINAL *luname***

User *user* attempted to logon, but the logon was rejected because either the *userid* or password supplied was incorrect.

**TPLOGX - UNABLE TO OPEN LOGO FILE**

A LLOAD command was issued to reload the MULTSESS/HPO logo panel definition. The specified member name could not be found in the dataset pointed to by the LOGO DD statement, or MULTSESS/HPO could not obtain access to the logo file.

#### **TPNEWS - UNABLE TO OPEN HOT-NEWS FILE**

A SET NEWS command was issued to update the hot news broadcast messages. MULTSESS/HPO attempted to store the updated news in the NEWS DD file, but was unable to obtain access to the dataset.

#### **TPPANLD - INVALID PANEL NAME - SKIPPING TO NEXT PANEL**

The PANELS DD dataset contains a panel definition with an invalid panel name. The statement PANEL= must contain a 1 to 8 digit name with at least one trailing blank.

#### **TPPANLD - \*\*\* INVALID CARD \*\*\***

The card read from the PANELS DD dataset that was found to be invalid is listed.

#### **TPPOOLS - MULTSESS ABENDING DUE TO ABOVE ERRORS**

Execution of MULTSESS/HPO has been terminated because of errors during initialization. Messages indicating the errors have been written before this message.

#### **TPOSESS - SESSION INITIATED TO APPLICATION *appl* FOR USER *userid* ALIAS *alias***

User *userid* created a new session with application *appl* using alias name *alias*. Message originated in both TPOSESS and TPNSESS.

#### **TPOSESS - SESSION RESTORED TO APPLICATION *appl* FOR USER *userid* ALIAS *alias***

User *userid* returned to an existing session with application *appl* using alias name *alias*. This message is only issued if the startup option SESSION-RECORD=YES was chosen, and can be used to calculate how much time was spent working with each application. Message originated in both TPOSESS and TPNSESS.

#### **TPSHUTDO - MAXIMUM NUMBER OF TASKS = *nn***

This statistical information indicates the highest number of subtasks ever required by MULTSESS/HPO to handle the workload. It includes the 2 housekeeping routines which are always active.

#### **TPSHUTDO - MAXIMUM USERS LOGGED ON *nnn* CONCURRENTLY ACTIVE *nnn***

This statistical information indicates the highest number of users connected and logged on since initialization.

#### **TPSHUTDO - MULTSESS COMPRESSION STATISTICS: INPUT *nn* OUTPUT *nn***

This statistical information indicates the reduction in data transmission achieved by MULTSESS/HPO by compressing its data before sending it to the terminal.

#### **TPSHUTDO - SHUTDOWN ISSUED BY USER *userid***

The *userid* issued a SHUTDOWN command to terminate MULTSESS/HPO.

#### **TPSHUTDO - TOTAL NUMBER OF SESSION SWITCHES (LOGOFF/LOGON SEQUENCES SAVED) = *nnnnnn***

This message indicates the total number of session switches by all users during this invocation of MULTSESS/HPO. This provides a guide to the total resource and user time saved by using MULTSESS/HPO to eliminate the overhead associated with application logon and logoff.

#### **TPSHUTDO - TPSWITCH COMPRESSION STATISTICS: INPUT *nn* OUTPUT *nn***

This statistical information indicates the reduction in the virtual storage requirements by holding non-active sessions in compressed format.

**TPSHUTDO - TRANSACTION TOTALS: APPLICATION = *nn* TERMINAL = *nn***

This message indicates the amount of work done by MULTSESS/HPO since initialization. This is statistical information, indicating how busy your network is.

**TPSTOP - SESSION *alias* TERMINATED FOR *userid***

User *userid* had his session with application *alias* terminated by a STOP command with the FORCE option.

**TPSUBT - NEW SUBTASK CREATED**

As the workload increases, MULTSESS/HPO dynamically builds extra subtasks to cope with it. It is an information-only message.

**TPSUBT - *module* ABENDED *code* AT *addr* FOR user PSW = *psw***

This message indicates a MULTSESS/HPO command has abended. The error recovery routines have cleaned up and returned the user defined by &SYSUSER, to normal processing. The module name, abend code, failing address and PSW are reported to be passed to your Support Office. Execution of MULTSESS/HPO continues.

**TPSWITCH - USER *userid* RETURNED TO MULTSESS MODE**

User *userid* has returned to MULTSESS/HPO mode from a session. This message is only issued if the startup option SESSION-RECORD=YES was chosen and can be used to calculate how much time was spent by the user working with each application.

**TPTPTRAC - TP TRACING HALTED**

This message indicates that MULTSESS/HPO VTAM tracing has been stopped.

**TPTPTRAC - TP TRACING INITIATED**

This message indicates that the MULTSESS/HPO VTAM trace routines have been invoked.

**TPVLERAD - ATTEMPT TO CONNECT TO ATP NODE *nodename* FAILED - CODE= *rcode* SENSE = *sense***

You have specified the ATP-NODENAME= parameter and MULTSESS/HPO has attempted to establish a connection with ATP. The OPNDST ACQUIRE failed with the indicated return code and sense code. A further attempt will be made shortly.

**TPVLERAD - AUTH=ACQ NOT SPECIFIED ON MULTSESS ACB - ATP DISABLED**

The ATP-NODENAME startup parameter was coded requesting MULTSESS/HPO to try to connect to the ATP address space. However, the VTAM definition of MULTSESS/HPO in SYS1.VTAMLST does not specify the AUTH=ACQ parameter. This is required before MULTSESS/HPO can issue OPNDST ACQUIRE to connect to ATP. MULTSESS/HPO continues operation, but the ATP scripting feature is disabled.

**TPVLERAD - ERROR FOR USER *userid* DURING SESSION *alias* CODE = *rcode* SENSE = *sense***

An application session encountered an error. Error codes are described in the ACF/VTAM Programming Manual, the sense codes are explained in the SNA Reference Summary.

**TPVLOGON - INVALID ATTEMPT TO CONNECT TO MULTSESS BY *luname***

Terminal *luname* attempted to connect to MULTSESS/HPO but MULTSESS/HPO could not find a match for the terminal characteristics in its logmode table. The logmode table definition to be added to member MULTSESS/HPO in the MULTSESS/HPO load library is listed after the message.

**TPVLOGON - SESSION CREATED WITH NODE *luname*. LOGMODE = *modename***

A user connected to MULTSESS/HPO from the terminal *luname* and the MULTSESS/HPO logo was successfully displayed.

**TPVLOGON - SESSION TERMINATED FOR *luname*. OPNDST TIMEOUT**

A logon request was received from terminal *luname*. MULTSESS/HPO issued synchronous OPNDST ACCEPT, but did not receive a response within 5 seconds, possibly because of an error at the terminal. The logon request is terminated to free the logon exit to service for other users.

**TPVLOSTE - TERMSESS RECEIVED FROM ATP PROCESSOR**

The connection with ATP has been lost. MULTSESS/HPO will attempt to reconnect. In the meantime scripting will not be available.

**TPVNSEXI - CONNECTION WITH ATP PROCESSOR LOST**

The connection with ATP has been lost. MULTSESS/HPO will attempt to reconnect. In the meantime scripting will not be available.

**TPVNSEXI - INVALID ENTRY CODE TO NSEXIT ROUTINE - REQUEST IGNORED**

The NSEXIT was entered for a reason that is not recognised by MULTSESS/HPO. The request has been ignored. However, if this message occurs frequently, report it to your local support office.

**TPVNSEXI - SESSION BETWEEN *userid* AND *appl* ALIAS *alias* ENDED**

The *userid* has terminated a session with application *appl*. The session ended normally.

**TPVPOOL - ABOVE VPOOL CARDS INVALID OR MISPLACED**

During initialization, MULTSESS/HPO detected syntax errors in the VTERM pools member. The invalid cards will be written to the console before the message. Message originated in TPPOOLS.

**TPVPOOL - POOL *poolname* CONTAINS NO ACBNAMES**

The VPOOL build routine has detected a VPOOL statement with no following ACBNAMES. Message originated in TPPOOLS.

**TPVPOOL - UNABLE TO OPEN VPOOL FILE**

An error has occurred during the opening of a VPOOL file. The load/reload of the virtual terminal pools is abandoned. Message originated in TPPOOLS.

**TPVPOOL - \*\*\* INVALID CARD \*\*\***

During initialization, MULTSESS/HPO detected a syntax error in a VPOOL or ACBNAMES control card. The invalid card is written to the console. Message originated in TPPOOLS.

**TPVSCIP - RQR RECEIVED**

MULTSESS/HPO has received a 'Request Recovery' VTAM request from an application. All such requests are ignored by MULTSESS/HPO.

**TPVSCIP - SCIP EXIT INVOKED WITH UNKNOWN CODE - REQUEST IGNORED**

The SCIP exit was entered with a code unknown to MULTSESS/HPO. The request has been ignored, but if this message occurs frequently, report it to your local support office.

**TPVSCIP - SESSION BETWEEN *userid* AND *appl* ALIAS *alias* ENDED**

User *userid* has terminated a session with application *appl*. The session ended normally.

**TPVSCIP - SESSIONC RECEIVED**

MULTSESS/HPO has received a 'Sessionc' VTAM request from an application. All such requests are ignored by MULTSESS/HPO.

**TPVSCIP - STSN RECEIVED**

MULTSESS/HPO has received a 'Set and Test Sequence Numbers' VTAM request from an application. MULTSESS/HPO ignores such requests.

**TPVSCIP - USER *userid* SESSION *appl* - INBOUND RU SIZE TOO SMALL FOR TERMINAL *luname***

This warning message is issued if a user creates a session with an application and MULTSESS/HPO detects that the terminal is capable of sending more data than the application buffer can accept. This can occur if the user types a whole screen before pressing the <Enter> key. This is probably due to an invalid logmode definition for the real terminal, or a wrong definition for the virtual terminal to the application.

**TPVSCIP - USER *userid* SESSION *appl* - OUTBOUND RUSIZE TOO LARGE FOR TERMINAL *luname***

This warning message is issued if a user creates a session with an application that is capable of sending more data than the terminal buffer can handle. An error in the form of lost data at the screen may occur later. This is probably due to an invalid logmode definition for the real terminal, or a wrong definition for the virtual terminal to the application.

**TPVSCIP - USER *userid* SESSION *appl* - QUERY CAPABILITY NOT SUPPORTED BY TERMINAL *luname***

This warning message is issued if a user creates a session with an application using a virtual terminal that supports QUERY, but the real terminal does not support it. This is probably due to an invalid logmode definition for the real terminal or a wrong virtual terminal definition in the application terminal tables.

**TPVSYNAD - ATTEMPT TO CONNECT TO ATP NODE *nodename* FAILED - CODE=*code* SENSE=*sense***

An error occurred on an application session. Error codes are defined in the ACF/VTAM Programming Manual. Sense codes are explained in the SNA Reference Summary.

**TPVSYNAD - ERROR FOR USER *userid* DURING SESSION *appl* CODE=*code* SENSE=*sense***

An error occurred on an application session. Error codes are defined in the ACF/VTAM Programming Manual. Sense codes are explained in the SNA Reference Summary.

**TPVTAMP - ERROR IN TPVTAMP ENCOUNTERED - USER MAY BE HANGING**

The MULTSESS/HPO ACB processor, TPVTAMP, has encountered an error which it could not handle. The user involved may experience a terminal hanging condition. MULTSESS/HPO continues processing, but the hanging user should be FORCED. Frequent occurrences of the message should be reported to your Support Office.

**TPVTAMP-ERROR OPENING VTERM ACB *acbname* IN POOL *poolname* FOR USER *userid* - CODE=*code***

MULTSESS/HPO has attempted to open a virtual terminal ACB, selected from a pool as part of session initiation on behalf of the indicated user. The open has failed for a reason other than the fact that the ACB is in use by another user. MULTSESS/HPO will attempt to select another ACB for this session. This is a warning message only. Refer to the VTAM Programming manual for error codes.

**TPVTAMP - INPUT MESSAGE TRUNCATED**

This warning message is issued if a user session tries to send a block of data that exceeds the maximum length specified by the MAXIMUM-RUSIZE startup option.

**TPVTPEND - EMERGENCY TERMINATION DUE TO ACB CLOSURE BY OPERATOR OR VTAM FAILURE**

This warning message is issued if the operator varies the ACB that MULTSESS/HPO is using inactive, or if a VTAM failure occurs. Without VTAM or the use of its ACB, MULTSESS/HPO can do nothing, hence the shutdown.

**TPVTPEND - VTERM *acbname* CLOSED BY VTAM**

The specified virtual terminal was in use for a session. The vterm ACB has become inactive to VTAM, possibly as a result of a V NET,INACT,F operator command.

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# Index

## A

alternative methods of sending ATTN 2.10  
ATPCMD ABEND command 2.3  
ATPCMD command 2.2  
ATPCMD DISPLAY command 2.4  
ATPCMD RESET command 2.5  
ATPCMD SHUTDOWN command 2.6  
ATPCMD TRACE command 2.7  
ATPDIR command 2.8  
ATPVAR command 2.9  
ATTN command 2.10

## B

basic non-panel mode 1.7

## C

class A users command summary 1.16  
class B users command summary 1.15  
class C users command summary 1.15  
class G users command summary 1.13  
COMMENT command 2.11  
commonly used functions 1.8  
CONSOLE command 2.12  
COPY command 2.13

## D

DEFINE command 2.15  
DIRECT command 2.16  
DISCONN command 1.10, 2.17  
DISPLAY PANEL command 2.18  
DISPLAY VPOOLS command 2.19  
dynamic panel data fields 1.6  
dynamic panel mode 1.5

## E

ECHO command 2.20  
error codes 3.39  
EXIT command 2.21

## F

FIX command 2.22  
FORCE command 2.23

## G

getting started 1.2

## H

HELP command 2.24  
help on function 1.8

## I

IMAGE command 2.25  
IMAGE DELETE command 2.26  
IMAGE GET command 2.27  
IMAGE OFF command 2.28  
IMAGE ON command 2.29  
IMAGE QUERY command 2.30  
IMAGE SEND command 2.31  
IMAGE VIEW command 2.32  
inputting more than one command on a line 1.10  
introduction to MULTSESS/HPO 1.1

## L

LLOAD command 2.33  
LOAD command 2.34  
logging off 1.7  
logging on to MULTSESS/HPO 1.2  
LOGOFF command 2.35  
LOGON command 2.36

## M

MESSAGE ALL command 2.38  
MESSAGE command 1.9, 2.37  
MORE command 2.39  
MSGAPP command 2.40  
MSKEY 1.12  
MULTSESS  
    commands 2.1  
    error codes 3.39  
    logo screen 1.2  
    messages 3.1

## N

Network Performance Monitor (NPM) 1.11  
non-panel mode 1.7

## P

PANEL command 2.41  
PANEL name command 2.44  
PANEL OFF command 2.42  
PANEL ON command 2.43  
PANEL PFKSET command 2.45  
PLOAD command 2.46  
PRINT command 2.47  
printing a screen image 1.11  
PROFILE command 2.48

## Q

Q NAMES 1.9  
QUERY command (class B) 2.51  
QUERY command (class G) 2.49  
QUERY TRANSACT command 2.52

## R

RECALL command 2.53  
RESPONSE command 2.54  
RUN command 2.55

## S

scroll PF Keys 1.5  
scrolling through the applications 1.5  
sending a message to another user 1.9  
sending an application screen to another user 1.10  
SESSCHAR AUTOFF 1.12  
SESSCHAR AUTON 1.12  
SESSION command 2.56  
SET CMDCHAR command 2.59  
SET command 2.58  
SET DUMP command 2.60  
SET EDS command 2.61  
SET MAXUSERS command 2.62  
SET MSKEY command 2.63  
SET NEWS command 2.64  
SET NEWSFILE command 2.65  
SET NIM command 2.66  
SET NPM command 2.67  
SET PFK command 2.69  
SET SDWA command 2.70  
SET SESSCHAR command 2.71  
setting up a PF Key 1.7  
SHUTDOWN command 2.72  
STACK command 2.73  
START command 2.74  
starting sessions 1.5, 1.7  
STOP command 2.75  
summary of commands by class 1.13  
switching between sessions 1.12

## T

TERMCOND command 2.76  
TERMRUN command 2.77  
TERMSESS command 2.78  
testing the response time of the system 1.11  
TPTRACE command 2.79  
transferring to another terminal 1.10  
typing data into panel fields 1.6

## U

user definable panel 1.4  
using MULTSESS/HPO 1.3  
using non-panel mode 1.7  
using the ATTN key 1.11

## V

VERSION command 2.80  
VPOOL command 2.81  
VTERM command 2.82  
VTERM SESSIONS command 2.83

## W

WAIT command 2.84

working in dynamic panel mode 1.5

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