IBM Session Manager for z/OS

Quick Reference

Version 3 Release 1

SC34-7151-01

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Note

Before using this information and the product it supports, be sure to read the general information under "Notices" on page 99.

This edition applies to Version 3 Release 1 of IBM Session Manager for z/OS, program number 5655-U98, and to all subsequent versions, releases, and modifications until otherwise indicated in new editions.

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About this manual

This is the *Quick Reference* for IBM®Session Manager for z/OS®. It contains prototypes of many of the most commonly used commands and statements in Session Manager. It is intended to be used by Technical Programmers who have gained some familiarity with Session Manager and who no longer need detailed explanations of each command or statement.

A complete list of commands, control statements and parameters, along with full descriptions of their use can be found in the *Technical Reference*.

Full descriptions of each variable can be found in the *Panels, Scripts and Variables* manual.

Note Any references in this manual to "Session Manager version 1.3.15" and to "1.3 Functional Enhancement PTF 3" are synonymous.

Online and Batch Administration

Online Administration: Instead of supplying product configuration statements directly, Online Administration (hereafter "OLA") enables administrators and end-users of Session Manager to tailor the product using a series of menus, lists and attribute display panels.

Batch Administration: If many changes are required to a large number of configuration definitions, this capability enables administrators and end-users of Session Manager to tailor the product using a batch job.

For more information, see the *Online and Batch Administration* manual.

External Security Managers

External Security Managers (hereafter "ESMs"), such as RACF®, can be used with Session Manager to authenticate users, set their authorization level and OLA security class, and determine which applications a user can access.

For details, see the 'Defining security and implementing dynamic menus' chapter in the *Installation and Customization* manual.

Session Manager documentation

The following documentation accompanies Session Manager:

Manual	Purpose
Installation and Customization	Goes through the steps required to install the Session Manager software, and provides general information on the methods and options available to configure and operate your system.
User and Administrator	Describes in detail the features and facilities provided by Session Manager.
Online and Batch Administration	Explains the set-up and configuration of OLA, how to use the interface, and how to utilize both OLA and Batch Administration to modify the Session Manager configuration.
Technical Reference	Provides a detailed reference for Session Manager commands and configuration statements, along with problem diagnosis assistance.
Quick Reference	Provides a quick way to find the correct syntax for commands, configuration statements, and variables, without detailed explanations.
Panels, Scripts and Variables	Gives a detailed technical account of defining panels, using scripts and variables, and the product's Panel and Script Language (TPSL).
Messages and Codes	Contains explanations of all messages issued by Session Manager, and the actions that should be taken.

Additionally, the *Program Directory* contains information for systems programmers about the program material and procedures for installing IBM Session Manager under z/OS.

New users should review the *User and Administrator* manual to gain an understanding of Session Manager concepts, and Technical Programmers should review the *Installation and Customization* manual in order to tailor the product to the Installation's requirements.

In general, the extreme flexibility of the configuration statements is found to cater for most user requirements. Panel and script definitions may be provided with conditional logic using the Session Manager Panel and Script Language and numerous variables are provided to view and modify a wide variety of data. If any particular needs cannot be met, a user exit is available, containing several exit points and access to certain variables, enabling user code to be executed. Full details of the User Exit are supplied in the *Installation and Customization* manual.

Conventions

The following typographic conventions are used:

`boldface`	Indicates a command or keyword that you should type, exactly as shown. When mixed case is used, the element in upper case represents the shortest acceptable form. For example, `MSGsuffix` can be abbreviated as far as `MSG`.
`italics`	Indicates a variable for which you should substitute an appropriate value.
`monotype`	Indicates literal input and output.
Ctrl+D	Indicates two or more keys pressed simultaneously.
`[ ]`	Brackets surround an optional value.
`|`	Vertical bars separate alternative values from which you must make a selection.
`...`	Ellipsis indicates that the preceding element may be repeated.
@	Some commands or key sequences make use of the 0x7C (that is, x'7C') character. When using the English language code page, this character is displayed as the @ sign, but may be displayed as a different character in some other code pages. In this document, the 0x7C character is always presented as the @ sign. You should enter the appropriate 0x7C character symbol for the code page you are using.

Summary of new features

For a summary of changes made to the product in its most recent releases, please refer to the manual.

CHAPTER 1

Session Manager commands

This chapter contains prototypes of many of the most commonly used commands in IBM Session Manager for z/OS. A complete list of commands, along with full descriptions of their use, can be found in the *Technical Reference*.

The chapter is divided into these sections:

- General user commands
  - Basic – the most universal end user commands (see page 14).
  - User – commands that are usually available to end-users (see page 14).
- Privileged user commands
  - Operator – additional commands that are usually available to system operators (see page 18).
  - Administrator – further commands that are only normally available to system administrators (see page 18).

General user commands

See

- 'Basic commands' below
- 'User commands' below

Basic commands

A full description of the following commands is provided in the *Technical Reference*. All basic commands have a default security level of 1.

`Backward [nn]`

`Bwd [nn]`

`Down [nnn]`

`Forward [nn]`

`Fwd [nn]`

`Help [help-topic-name]`

`QUIT [Exit|Logon|Signon]`

`Retrieve`

`RETURN`

`TOP`

`Up [nnn]`

User commands

A full description of the following commands is provided in the *Technical Reference*. All user commands have a default security level of 1.

`ADDSESS applname sessionnumber`

`BRECeive [WAITinp|BELL|Queue|Yes|No|ON|OFF]`

`CONCEAL PFkey|session_number|this_applid`

`CONFIRM`

`CUTEnd`

`CUTStart`

`DELETE MSG msg-number`

`DELSESS [sessionnumber|ALL]`

`DISconnect [Exit|Logon|Signon]`

`END seln-id|*`

`FILTer applid`

`FIND applid`

`HALtscript seln-id|*`

```
HARdcopy seln-id [Profile hcprofile Option hcoption]

HCoption [option-number]

INITSC Yes|No|ON|OFF   seln-id|*

LEFT [nn]

LOCK [Yes|No|ON|OFF]

LOCKTERM

LOGoff [Exit|Logon|Signon]

MSG message-text
    Applid applid                          |
    Group group-name                       |
    Lu luname                              |
    Profile profile-name                   |
    User user-id
    [ [Hold hh:mm ]
      [FOR hh:mm|days|days hh:mm ] ]
    [URGent ]

MSGID [Yes|No|ON|OFF]

NW

OK

PASTEStart

NLOG VTAM®-applid

PANELID [Yes|No|ON|OFF]

PCTRANSFER [Yes|No|ON|OFF] [seln-id]

PULL index-number [RETurn Yes | No | ON | OFF]

QACTuser
```

```
Query ACb acb-pattern                          |
      ALL                                      |
      Applid appl-pattern                      |
      BRDVAR id-pattern                        |
      Broadcast                                |
      Group group-name                         |
      Ident                                    |
      ISZsmgr                                  |
      LAstmsg                                  |
      LU lu-pattern
           [RTM [RESET]|RTMALL [RESET] ] |
      Net  ALLSESSIons                         |
           LInk linkname                 |
           NETMan NOde nodename                |
           NOde node-pattern                   |
           NUMbers                             |
           SESSion                             |
             NOde nodename|LInk linkname |
             TAsk taskname                     |
             CORelator name-pattern            |
      PROFile profile-pattern                  |
      REMOTE node-pattern                      |
      SIGNON                                   |
      SPY                                      |
      STAts                                    |
      STOruse [Pool]                           |
      SUspend                                  |
      TERMinal term-pattern
           [RTM [RESET]|RTMALL [RESET] ] |
      TN3[270] tcpclient-pattern
           [RTM [RESET]|RTMALL [RESET] ] |
      User userid_pattern
           [user_qualifier RTM [RESET] | RTMALL [RESET]]

QQuit [Exit|Logon|Signon]

QUSER userid [LU lu_name]

RESet seln-id|*

RIGHT [nn]

SE

REVEAL PFkey|session_number|this_applid|ALL

SEND nodename command

SME

SPYOFF

STARTSC Yes|No|ON|OFF   seln-id|*

TOP

TRANSFER [Override]
```

```
VIEW demonstrator-id
     [PASS password]
     [Override]

Windows [script-name]
```

Privileged user commands

See

- 'Operator commands' below
- 'Administrator commands' below

Operator commands

A full description of the following commands is provided in the *Technical Reference*. All operator commands have a default security level of 5.

```
BLock applid [ON|Yes|OFF|No]
     [EXclude group-name]

DEMO [PASS password|NOPASS ]
     [AUTocopy [Yes|No|ON|OFF] ]
     [INTernal [Yes|No|ON|OFF] ]
     [DISplay [Yes|No|ON|OFF] ]
     [STOP]

DLog

FLash  message-text
     [Applid applid|Variable global-variable]

PLAYDs index-number

PLAYHex index-number

PLAYImage index-number

RECOrd [ON|YES|TERM|APPL|CLEAR|0|OFF|No]

REPLAY

SEND nodename command

SPY User userid                  |
     LU luname
     [NOAUTO] [Override]
```

Administrator commands

A full description of the following commands is provided in the *Technical Reference*. All administrator commands have a default security level of 9.

```
BRoadcast message-text
     ALL                         |
     Applid appl-pattern         |
     BRDVAR id-pattern           |
     Group group-pattern         |
     Lu lu-pattern               |
     Profile profile-pattern     |
     User user-pattern
     [ [Hold hh:mm ]             |
       [FOR hh:mm|days|days hh:mm ] ]
     [URGent ]

CLOsedown [FORce|END]

DELETE BROadcast msg-number
```

```
DELETE MSG msg-number

DStore [sub-command]

DTERM ['LU luname']

DUMP

FORCE task-name|LINK linkname

GFS STATS|USAGE|STOR

INQUIRE

ISZtest [Yes|No|ON|OFF]

PASSFREE LU luname

PUPdate ddname member-name

QTask [Task task-name            |
     User userid-pattern         |
     LU lu-pattern
     [Selection seln-id ] ]

REMOVEUSER userid

SECFRESH

SPIN AUdit|Trace|AUDITGDG

STARTCp

STARTLink linkname

STOP User userid|ALLDISC [user_qualifier]   |
     LU luname
     [Sel seln-id] [ALL]

STOPAcb appl_name acb_name

STOPLink linkname

STOPTcp

SWITCHplx

TERMINATE [FORce|END]

TRace Data|MISER|Vtam|NETDATA
     [Yes|No|ON|OFF|SPIN]
     [User userid               |
     LU luname ]
     [Selection seln-id] ]

TRace LINK link-name
     [NETCTL]
     [Yes|No|ON|OFF|SPIN]

TRace Internal [Yes|No|ON|OFF] [DUMP|NODUMP]
     [Task task-name             |
     User userid                 |
     LU luname
     [Selection seln-id] ]

TTpsl [[Yes|No|ON|OFF|Display]
     Task task-name|[Selection seln-id
       [User userid|LU luname]]
     [PAnel|SCript]
     [PRint|NOPrint [DUmp|NODump]]
     [Internal|NOInternal]
     [All|TRaceverb]
     [SIze nn]]

UPDate GCMVS
```

```
UPDate Exit exit-name |Ø        |
     EØ5 S|E         |
     EØ6 S|E         |
     EØ8 S|E         |
     E11 S|E         |
     E21 S|E         |
     E22 S|E         |
     E26 S |
     E29 S|E         |
     E31 S|E         |
     E33 S|E         |
     E36 S |
     E39 S|E         |
     E79 S|E         |
     E99 S|E
UPDate Print [Yes|No|ON|OFF]
     Config suffix     |
     Member member-name|
     ALL
```

CHAPTER 2

Session Manager Control statements

Control statements are used to configure the product. They can be separated into a number of groups:

- General and User configuration (see page 22)
- Initialization options (see page 33)
- Support statements (see page 35)
- Technical configuration (see page 36)
- Messaging (see page 38)
- Printing (see page 39)
- Panels and Scripts (see page 40)

The statements, and parameters that can be used with them, are listed in separate sections by group. A full description of the configuration control statements appears in the *Technical Reference*.

The PANEL and SCRIPT statements differ from the other control statements in that they may contain logic statements for loops and conditional processing. These logic statements are referred to as TPSL, the Panel and Script Language. The prototypes for these are given in this manual but the full description appears in the *Panels, Scripts and Variables* manual.

General and User Configuration

The statements in this section control the general configuration of the system and the settings applicable to individual users, terminals, and sessions. The statements available are:

SYSTEM

PROFILE

USER

TERMINAL

APPL

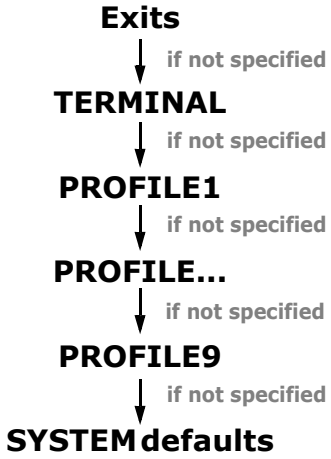
LU

As well as individual parameters that apply to the statements separately, some parameters apply to more than one of the statements. As parameters may sometimes be set to different values in different places, the following diagrams show the logic that is used by Session Manager when deciding which setting to use.

Common enduser parameters

Before signon, or if signon not enabled

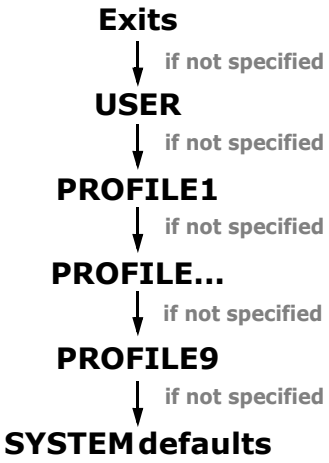
Before a signon has taken place, or if the `SYSTEM` parameter `SIGNON` has been set to `NO` (in which case no signon will take place), the settings to be used will be determined as follows,



For more information on using Exit Points, refer to the *Installation and Customization* manual.

After signon

After a signon has taken place the settings to be used will be determined as follows,

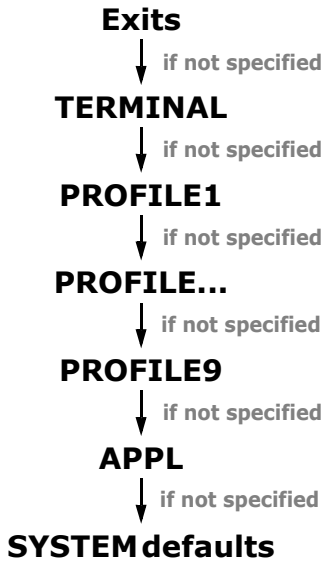


For more information on using Exit Points, refer to the *Installation and Customization* manual.

Common session parameters

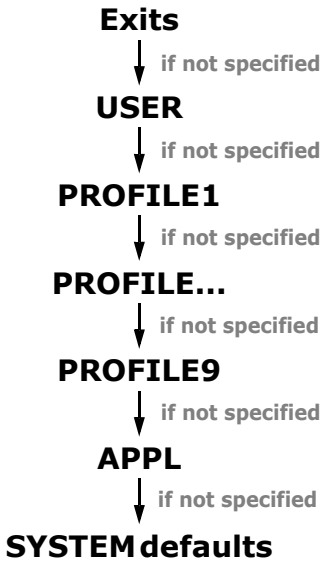
If signon not enabled

If the `SYSTEM` parameter `SIGNON` has been set to `NO` (in which case no signon will take place), then the settings to be used will be determined as follows,



For more information on using Exit Points, refer to the *Installation and Customization* manual.

After signon After a signon has taken place the settings to be used will be determined as follows,



Determining Profile order

Profiles associated with a user are read in the order they appear on the USER statement or, if you have configured your system to allow the External Security Manager to determine a user's Profiles, as dictated by the External Security Manager and the ESMLEVEL parameter. This is the same order in which they appear when viewed using OLA. The first profile in the list will be Profile1, the second Profile2, and so on.

Common enduser parameters

The following parameters can be used with the SYSTEM, PROFILE, USER, TERMINAL and LU statements. For an explanation of the logic used when deciding which setting to use, refer to 'General and User Configuration' on page 22.

Full descriptions of these parameters are provided in the *Technical Reference*.

```
[ACTivesessions active-session-limit]

[AFFINITY affinity-acbname]

[AUTH auth-level]

[AUTOSELECT session-number|applname]]

[AUTOSEQ escape [A|I|E|N script-name]]

[BACKWARD escape]

[BRECEIVE [Yes|No|ON|OFF|WAITinp|BELL|QUEUEd]]

[CMDACTionkey aidkey]

[COMMANDPrfxval character]

[CURESC [Yes|No|ON|OFF]]

[CUT escape [NFILLC [Yes|No|ON|OFF]]]

[DAPPLCheck [Yes|No|ON|OFF]]

[DAPPLESMAUTH [Yes|No|ON|OFF]]

[DEMO [DEMOKEY escape]
     [AUTocopy [Yes|No|ON|OFF]]
     [INTernal [Yes|No|ON|OFF]]
     [DISplay [Yes|No|ON|OFF]]]

[DOUBLESC interval]

[DSESSRange FROM fromsessionnumber TO tosessionnumber]

[ERTIMEOUT seconds]

[ESCAPE escape [CURSOR row col]]

[ESMOLAGROUP [Yes|No|ON|OFF]]

[EUTIMEOUT minutes]

[FORWARD escape]

[HCPROF hcprofile-name]

[HCREQUEST escape [CURSOR row col]]

[IDLEDisc minutes [DIRECTION [IN|INOUT]] [WARN [Yes|No|ON|OFF]]]

[IDLELOCK minutes [DIRECTION [IN|INOUT]]]

[IDLELogoff minutes [AFTERDISC] [DIRECTION [IN|INOUT]] [WARN
[Yes|No|ON|OFF]]]

[LANGuage language-id]

[LOGDISC EXIT|SIGNON]
```

[MENU *panel-name*]

[MOBILE [Yes|No|ON|OFF] [LOCK [Yes|No|ON|OFF]]]

[MSGID [Yes|No|ON|OFF]]

[NCSESC Yes|No|ON|OFF]

[OLACLASS *ola-class*]

[PASTE *escape*
    [NFILLP [Yes|No|ON|OFF]]
    [SPILLW [Yes|No|ON|OFF]]]

[PREVIOUS *escape*]

[PULL *escape*]

[PUSH *escape*]

[PUSHLimit *push-limit*]

[REBIND [Yes|No|ON|OFF]]

[RECORDLimit *record-limit*]

[RECOVERYLevel High|Intermediate|None]

[REPLAY ASRECORD|FMTopts]

[SENDCDonsrd [Yes|No|ON|OFF]

[SESSAUTOSAppl [Yes|No|ON|OFF]

[SESSPRIAppl [Yes|No|ON|OFF]

[SHARE [Yes|No|ON|OFF]]

[SHAREDISC [Yes|No|ON|OFF]]

[SHARESESS [Yes|No|ON|OFF|MAXUSRlogin *nnnn*]]

[SIMRecon [Yes|No|ON|OFF]]

[SPYABLE [TELL|Yes|No|ON|OFF]]

[SPYGROUP *group-name*|*]

[TERMERROR EXIT|SIGNON [DISC|LOGOFF|SIGNOFF]]

[TRANSTab *transtable-name*]

[USERDATA1 *data|variable*]

[USERDATA2 *data|variable*]

[USERDATA3 *data|variable*]

[USERDATA4 *data|variable*]

[USERDATA5 *data|variable*]

[WINDSCRIPT *script-name*]

Common session parameters

The following parameters can be used with the SYSTEM, PROFILE, USER, TERMINAL, APPL and LU statements. For an explanation of the logic used when deciding which setting to use, refer to 'General and User Configuration' on page 22.

Full descriptions of these parameters are provided in the *Technical Reference*.

```
[ACB override-acbname]

[ADDSID test|variable
     AT row col
     [COND text AT row col]
     [MODEL model-number]]

[ALARM [Yes|No|ON|OFF]]

[ALLOWEscape [Yes|No|ON|OFF]]

[APPLSEL search-text]

[AUTOSCRIPT script-name]

[AUTOSTART [Yes|No|ON|OFF]]

[BLANKSCript scriptname]

[BRDVAR text]

[COMPress [Yes|No|ON|OFF]]

[CONCEAL [Yes|No|ON|OFF]]

[CONDLOGOFF [Yes|No|ON|OFF]]

[DATA logon-data]

[DESCRIPTION description]

[DISCACtive [Yes|No|ON|OFF]]

[DROP_SESSION [Yes|No|ON|OFF]]

[ENDSCript script-name]

[ENVIRONSCript script-name]

[HIDE [Yes|No|ON|OFF]]

[ILU [Yes|No|ON|OFF]]

[IMSConvert Yes|No|ON|OFF]
[IMSCONVERTC Yes|No|ON|OFF]

[INITSCript script-name]

[INTERNALSess Yes|No|ON|OFF]

[LOGMODE logmode-entry-name]

[LOGOFF END|RESET]

[MISER [Yes|No|ON|OFF] | [INput] [OUTput] REA] [ERB]]

[NETID network-id]

[ONESCape CONTinue|END|RESET]
```

```
[ONREAD IGNore|SELect|DISPMenu]
[ONWRITE IGNore|SELect|DISPMenu]
[OUTPUTWarn nnnn [Minutes mmm]]
[PASSTIMEOUT DISPMenu|LOGAPPL]
[PASSTRAnsid [Yes|No|ON|OFF]]
[PCTRANSFER [Yes|No|ON|OFF]]
[PSTKAppl passticketapplname]
[PSTKUser alternativeuserid]
[QUITACtive [Yes|No|ON|OFF]]
[REJBB [Yes|No|ON|OFF]]
[REMOTE nodename]
[RMISER [Yes|No|ON|OFF] | [INPut] [OUTput]]
[SAUTOSEQ escape
    [A|C ismcommand|I|J|E|N script-name]
    [PASS]
    [NOCURESC]
    [REMESC]
    [ACTIONKEY aidkey]
    [COMMANDPRFX Y|N|ON|OFF]
    [PARM Y|N]
[SEQUENCE nnnn]
[SESSDATA1 data|variable]
[SESSDATA2 data|variable]
[SESSDATA3 data|variable]
[SESSDATA4 data|variable]
[SESSDATA5 data|variable]
[SESSPROGMSG [Yes|No|ON|OFF]]
[SESTYPE nnnn]
[SIDLTime minutes [DIRECTION [IN|INOUT]]]
[SNABUSY [Yes|No|ON|OFF]]
[STARTSCript script-name]
[STATs [Yes|No|ON|OFF]]
[TERMSCript script-name]
[UNBIND [IMMEDiate|WAIT]]
[UNBINDAPPL VTAM-applid]
[UNDERISZSMGR|CLOSEDISC|CLOSELOGOFF] ]
```

SYSTEM statement

The following parameters can be used with the SYSTEM statement. Full descriptions are provided in the *Technical Reference*.

```
[ACB system-acbname|0]

[ALLUSERS [Yes|No|ON|OFF]]

[ATTR attr-char] OFF|field-attribute-parameters ]

[AUDITOGDG [Yes|No|ON|OFF]
    [ATGBASE atgbasename]
    [ATGUNIT unitdevicetype]
    [ATGSMSCLASS smsclassname]
    [ATGPSPACE nnn]]

[BINDTIMEOUT seconds]

[CLOSEACBInact [Yes|No|ON|OFF]]

[CV64 [Yes|No|ON|OFF]]

[DEFAPPL applname]

[DEFMENU menu-name]

[DEFPROFILE profile-name]

[DLOGlimit dlog-message-limit]

[Domax domax-limit]

[DUMPGDG [Yes|No|ON|OFF]
    [DUMPBASE gdgbasename]
    [DUMPUNIT unitdevicetype]
    [DUMPSMSCLS smsdataclass]
    [DUMPPSPACE numberofcylinders]
    [DUMPSSPACE numberofcylinders]]

[EXITWALen nnnnn]

[GENERICACB generic-acbname]

[GENRESName ismgenericresourcename]

[HARDENUser Yes|No|ON|OFF]

[INITIAL_CMD initial_cmd]

[INPUTEXit exitname]

[INQINTerval minutes]

[LOCALnode nodename]

[LOGCmdauth command-auth-level]

[LOGMnnx logmode-entryname]

[MDY|DMY|YMD|YDM]
```

```
[MSGsuffix I|E|W|*
    [AUDIT [Yes|No|ON|OFF]]
    [CONTent [Yes|No|ON|OFF|CODE|TEXT]]
    [DESCriptor descriptor-code-list]
    [INFORM users-inform-list]
    [LOG [Yes|No|ON|OFF]
    [ROUTE route-code-list]]

[MULTUser [TERML4|COUNT RECONAnyterm [Yes|No|ON|OFF]
           PORTNumber [Yes|No|ON|OFF]]

[OLA_DEFER_USERS [Yes|No|ON|OFF]]

[OPEROLACLASS olaclassname]

[OUTPUTEXit exitname]

[PANELID Yes|No|ON|OFF]

[PASSTry passtry-limit]

[PREFLANGuage language-id]

[RCMDTimeout n]

[RETRCMDS nn]

[RTMT1 nnnnn]

[RTMT2 nnnnn]

[SCREENMODE Normal|Alternate]

[SECURITY
    [AUTHRESname authresname]
    [OLARESname olaresname]
    [AUTHCLASsname authclassname]
    [DYNMResnm dynamicmenuresourcename]
    [DYNMClass dynamicmenuclassname]
    [DYNMDROPSESSION Yes|No|ON|OFF]
    [DYNMALog Yes|No|ON|OFF]
    [DYNMAUtsthid Yes|No|ON|OFF]
    [DYNMTYPE Appl|Vtamappl]
    [DYNMHide Yes|No|ON|OFF]
    [DYNMALogmax nnnn]
    [ESMPRFCLNM esmprofileclass]
    [ESMPRFRSNM esmprofileresname]
    [ESMPRFACC Yes|No|ON|OFF]
    [PASSPHRASE Yes|No|ON|OFF [PASSWORDREQ Yes|No|ON|OFF]]
    [SIGNONClass signonclass]
    [SIGNONAccess Yes|No|ON|OFF]
    [SIGNONResname signonresname]
    [TERMINALClass terminalclass]
    [TERMINALResname terminalresname]
    [TERMINALAccess Yes|No|ON|OFF]]

[SESACB default-acbname]

[SHAREAPPL appl-statement-name]

[SIGNon [Yes|No|ON|OFF]]
```

```
[SIGNONPANEL panel-name]

[SRBUFsize buffer-size]

[STANDBY N|nodename]

[SYSDUMP [NODUMP|DUMP|BYPASS|RTMDUMP]]

[SYSPLEXGroup xxxx
    [GLOBALMessages Yes|No|ON|OFF]
    [LINKTRace Yes|No|ON|OFF]
    [LINKNEtctl Yes|No|ON|OFF]
    [LOGSTREAMName logstreamname]
    [PSTIMER 1 to 32767]
    [STANDBYTAKETIME [0 to 32767]]
    [USERStructure Yes|No|ON|OFF]
    [WAITFORCNTLTIME [0 to 32767]]]

[SYSPLEXTYPE C|S|I|N]

[TCP [Yes|No|ON|OFF]
    [DISPLAY [Yes|No|ON|OFF]]
    [STN3270 port-no]
        [TN3270_MSG4049 [Yes|No|ON|OFF]]
        [TN3270E [Yes|No|ON|OFF]]
        [TN3270E_CONNECT [Yes|No|ON|OFF]]
    [[IBM] [IUCVname resource-name]
    [TRACE [Yes|No|ON|OFF]] ]
    ECLIPSESERVER portnumber [DIAGS Y|N]

[TRBUFsize buffer-size]

[TRNUMber buffer-number]

[VERBOSE Yes|No|ON|OFF]

[WORKQUE workque-limit]
```

PROFILE statement

The following parameters can be used with the PROFILE statement. Full descriptions are provided in the *Technical Reference*.

```
PROFILE profile-name
   [ESMLEVEL esmlevel-value]
   [PASSTry passtry-limit]
   [RETAIN [Yes|No|ON|OFF]]
   [SIGNon [Yes|No|ON|OFF]]
   [SIGNONPANEL signon-panel]
    SESSION DEFAULTS |
      SESSION nnnn [ selection-commands ] |
      KEY PFnn
    APPLID VTAM-applid|appl-statement-name |
      [REFappl [Yes|No|ON|OFF]]]
   [CMD command] (any valid Session Manager command)
   [TRANSID transid-list]
```

USER statement

The following parameters can be used with the USER statement. Full descriptions are provided in the *Technical Reference*.

```
[USER username
   [PASSWORD password]
   [PROF profile-name]
   [RENUMDUP nnnn]
   [SESSAUTOS Yes|No|ON|OFF T|N|A|C
      sestype|session_number|application|command
   [SESSPRI T|N|A|C sestype|session_number|application|command]
   [TRACE Internal|Data|MISER|Vtam|NETDATA]
```

TERMINAL statement

The following parameters can be used with the TERMINAL statement. Full descriptions are provided in the *Technical Reference*.

```
[TERMINAL termid|termid-pattern
   [PASSTry passtry-limit]
   [PROF profile-name]
   [RETAIN [Yes|No|ON|OFF]]
   [SIGNon [Yes|No|ON|OFF]]
   [SIGNONPANEL signon-panel]
   [TRACE Internal|Data|MISER|Vtam|NETDATA]
```

LU statement

The following parameters can be used with the LU statement. Full descriptions are provided in the *Technical Reference*.

```
[LU luname | lu-pattern options ]
```

options are the same as for the TERMINAL statement.

APPL statement

The following parameters can be used with the APPL statement. Full descriptions are provided in the *Technical Reference*.

```
APPL appl-name
   [APPLID applid]
   [INDRAnge appl_name]
   [INQUIRE [Yes|No|ON|OFF]]
   [PSTKAPPL passticketapplname]
   [PSTKUSER alternativeuserid]
   [RECOVERYLevel [High|Intermediate|None]]
   [TERMLogmode logmode-name|* [ACBRange rangename]]
```

Initialization Options

The statements in this section control the settings used by Session Manager when the system first starts up. The statements available are:

COPY

OPTION

PCOPY

Full descriptions are provided in the *Technical Reference*.

COPY statement

The following parameter can be used with the COPY statement.

```
COPY member-name
```

OPTION statement

The following parameters can be used with the OPTION statement.

```
[OPTION [Config xx]
        [EXit exit-name]
        [EØ5 E|S]
        [EØ6 E|S]
        [EØ8 E|S]
        [E11 E|S]
        [E21 E|S]
        [E22 E|S]
        [E26 S]
        [E29 E|S]
        [E31 E|S]
        [E33 E|S]
        [E36 S]
        [E39 E|S]
        [E79 E|S]
        [E99 E|S]
        [GFS Yes|No|ON|OFF]
             [STORLim nnnnnnnn|nnnnnnnnK|nnnnM]
             [CUSHion nnnnnnnn|nnnnnnnnK|nnnnM]
             [THREShold Yes|No|LOG]
             [WARNing nnn]
             [SEVEre nnn]
             [CRITical nnn]
             [MAXstor Yes|No|ON|OFF]
        [MDPROF [L|M]]
        [MSGupper [Yes|No|ON|OFF]]
        [Print [Yes|No|ON|OFF]]
        [Security [Yes|No|ON|OFF]]
        [Start [Yes|No|ON|OFF]]
        [Test [Yes|No|ON|OFF]] ]
```

PCOPY statement

The following parameter can be used with the PCOPY statement.

PCOPY *ddname* [*member-name*]

Support statements

Support statements are used by Technical Support representatives to configure and update the Session Manager system. They should not be used by others except at the request of a local Support Representative. The statements available are:

APPLYSU

DELETE

INSTALLSU

PATCH

PATCHSU

REMOVESU

Full descriptions of these statements are provided in the *Technical Reference*.

Technical configuration

Technical Configuration statements enable you to control fundamental settings affecting how Session Manager runs. The statements available are:

COMMAND

LINK

RANGE

RUSER

TRANSTABLE

AUDITROUTE

TRACEROUTE

Full descriptions are provided in the *Technical Reference*.

COMMAND statement

The following parameters can be used with the COMMAND statement.

```
[COMMAND cmd-name
   [AUTH auth-level]
   [ACTKEY Yes|No]
   [KEYWORD cmd-parm-1 KAUTH auth-level1]
      [KEYWORD cmd-parm-2 KAUTH auth-level2]
      ...
      [KEYWORD cmd-parm-n KAUTH auth-leveln]
   [CMDSCRIPT Yes|No|ON|OFF [SNAME script-name] ] ]
```

LINK statement

The following parameters can be used with the LINK statement.

```
[LINK link-name
   Vtam local-acb To remote-acb
   [LOGMode logmode]
   [RECVany n]
   [OPENRETRYLIM nnn]
   [OPENRETRYINT seconds]
   [RECONIntvl seconds]
   [BUFsize buffersize]
   [STARTLink [Yes|No|ON|OFF]]
   [TRace [Yes|No|ON|OFF] [NETCTL]]
   [ISZ]
   [ACTIVATE [Yes|No|ON|OFF]] ]
```

RANGE statement

The following parameters can be used with the RANGE statement.

```
[RANGE acb-rangename
   FROM start-acbname [TO stop-acbnumber]
   [HEX|DEC]
   [RRA Yes|No|ON|OFF]]
```

RUSER statement

The following parameter can be used with the RUSER statement.

```
[RUSER name-pattern
   NOde node-name AUth auth-level OLACLASS ola-class ]
```

TRANSTABLE statement

The following parameters can be used with the TRANSTABLE statement.

```
[TRANSTABLE table-name
   [INPUT|OUTPUT]
   [SET offset list-of-hex-chars]
   [SET offset list-of-hex-chars ]... ]
```

Common print routing parameters

The following parameters can be used with the AUDITROUTE, TRACEROUTE, and HCROUTE statements.

```
[CLASS class-code]
[COPIES copies]
[DESTination destination-code]
[EXTWTR name]
[FCB fcb-name]
[FLASH overlay [count]]
[FORM forms-name]
[HIGHlight [Yes|No|ON|OFF]]
[HOLD [Yes|No|ON|OFF]]
[NAME override-name]
[NODE node-name]
[OUTPUT output-JCL-statement-name]
```

AUDITROUTE statement

The common print routing parameters, shown on above, can be used with the AUDITROUTE statement.

```
[AUDITROUTE print-routing-parameters ]
```

TRACEROUTE statement

The common print routing parameters, shown on above, can be used with the TRACEROUTE statement.

```
[TRACEROUTE print-routing-parameters ]
```

Messaging

These statements enable the configuration of messages and the setting up of groups who receive them. The statements available are:

GROUP

MESSAGE

Full descriptions are provided in the *Technical Reference*.

GROUP statement

The following parameters can be used with the GROUP statement.

```
[GROUP group-name
   [LUNAMES list-of-lunames]
   [PROFILES list-of-profilenames]
   [TERMINALS list-of-terminals]
   [USERS list-of-usernames] ]
```

MESSAGE statement

The following parameters can be used with the MESSAGE statement.

```
[MESSAGE msg-number
   [SUFfix I|E|W]
   [AUDit [Yes|No|ON|OFF]]
   [INFORM users-inform-list]
   [LOG [YES|No|ON|OFF]]
   [DESCriptor descriptor-code-list]
   [ROUTE route-code-list]
   [TEXT message-text [LANGuage language-id]] ]
```

Printing

The printing statements configure how hardcopies produced by the system are formatted and routed. The statements available are:

HCFORMAT

HCPROFILE

HCROUTE

Full descriptions are provided in the *Technical Reference*.

HCFORMAT statement

The following parameters can be used with the HCFORMAT statement.

```
[HCFORMAT formatname
   [HEADER header-text]
   [TRAILER trailer-text] ]
```

HCPROFILE statement

The following parameters can be used with the HCPROFILE statement.

```
[HCPROFILE profile-name
   HCOPTION description
   [FORMAT hardcopy-formatname]
   [ROUTE hardcopy-routename] ]
```

HCROUTE statement

The following parameters can be used with the HCROUTE statement.

```
[HCROUTE routename print-routing-parameters ]
```

The common print routing parameters are listed on page 37.

Panels and Scripts

Panel and Script statements provide facilities for customized panels and scripts to be used with Session Manager. They differ from the other control statements in that they may contain logic statements for loops and conditional processing. These logic statements are referred to as TPSL, the Panel and Script Language. The prototypes for these are given in this manual but the full description appears in the *Panels, Scripts and Variables* manual.

PANEL statement

The following parameters can be used with the PANEL statement. Full descriptions are provided in the *Panels, Scripts and Variables* manual.

```
[PANEL panel-name

   [BRANCH label name ]
      [LAB label name ]

   [DEFINE
      [LANGuage languageid]
      [WIDTH 80|132]
      [MODE NORmal|ALTernate]
      [DOMAX domax-limit]
      [CURSOR field-name]
      attr-definitions [...]

      attr-definitions (one or more, as desired):

      [ATTR attr-char OFF|field-attribute-parameters ] ]

      field-attribute-parameters:

      Protection, content:

      [ASKIP|SKIP]
      [DETect|NODETect]
      [UNProtected|PROTected]
      [NUMeric|ALPHanumeric]
      [NODisp|NONdisp]

      Color, effects:

      [RED|YELlow|WHIte|GREEN|BLUe|PINk|TURquoise]
      [HIgh|NORMal]
      [REVerse|BLInking|UNDErscore|USCOre]

      Special attributes:

      [ETMODE|DBCS]
      [ICursor]
      [BLANK|NOBLANK]
      [IN|OUT|LITeral]

   [HEADER
      [LINES line-number attr-definitions] ]

      attribute-definitions (one or more, as required).
      Note that these may not be defined within TPSL structures:
```

```
[ATTR attribute-character OFF|field-attribute-parameters]
```

For *field-attributes*, see PANEL DEFINE.

The following PANEL operations may be embedded within TPSL structures and interspersed with TPSL LETs and RETURNs.

```
[CALL panel-sub-definition]
[COLumn col]
[FIELD variable[(nn)]|literal
   [field-attributes|
   REFattr attribute-character]|
   character-variable]
[FORMATMSG (nnnn 'SEND'|'SENDNO' 'MSGID'|'ID'|'NOID' P1 P2...P9)]
```

For *field-attributes*, see PANEL DEFINE.

```
   [ICDISP cursor-displacement]
[NLIne lines]
[TEXTSTART panel-image-definition TEXTEND]
[TRACEON]
[TRACEOFF]
```

```
[CONTENT parameters ]
```

The *parameters* are the same as the HEADER subparameters (except LINES).

```
[TRAILER [LINES line-number] parameters ]
```

The *parameters* are the same as the HEADER subparameters.

```
[PROCESS [CALL process-sub-definition] [TRACEON] [TRACEOFF] ]]
```

The rest is defined using TPSL structures and operations.

PHEADER statement

The following parameters can be used with the PHEADER statement. Full descriptions are provided in the *Panels, Scripts and Variables* manual.

```
[PHEADER sub-header-name]
```

The PHEADER statement is used to define a common panel HEADER which can be CALLed from another HEADER section. The PHEADER definition is defined in the same way as the HEADER parameter, but with these exceptions:

- The LINES parameter on the HEADER parameter *cannot* be specified on the PHEADER definition.
- The LANGUAGE parameter on the PHEADER definition *cannot* be specified on the HEADER parameter.

PCONTENT statement

The following parameters can be used with the PCONTENT statement. Full descriptions are provided in the *Panels, Scripts and Variables* manual.

```
[PCONTENT sub-content-name]
```

The PCONTENT statement is used to define a common panel CONTENT which can be CALLed from another CONTENT section. The PCONTENT definition is defined in the same way as the CONTENT parameter, but with this exception:

The LANGUAGE parameter on the PCONTENT definition *cannot* be specified on the CONTENT parameter.

PTRAILER statement

The following parameters can be used with the PTRAILER statement. Full descriptions are provided in the *Panels, Scripts and Variables* manual.

```
[PTRAILER sub-trailer-name]
```

The PTRAILER statement is used to define a common panel TRAILER which can be CALLed from another TRAILER section. The PTRAILER definition is defined in the same way as the TRAILER parameter, but with these exceptions:

- The LINES parameter on the TRAILER parameter *cannot* be specified on the PTRAILER definition.

The LANGUAGE parameter on the PTRAILER definition *cannot* be specified on the TRAILER parameter.

PPROCESS statement

The following parameters can be used with the PPROCESS statement. Full descriptions are provided in the *Panels, Scripts and Variables* manual.

```
[PPROCESS sub-process-name]
```

The PPROCESS statement is used to define a common panel PROCESS which can be CALLed from another PROCESS section. The PPROCESS definition is defined in the same way as the PROCESS parameter, but with this exception:

- The LANGUAGE parameter on the PPROCESS definition *cannot* be specified on the PROCESS parameter.

SCRIPT statement

The following parameters can be used with the SCRIPT statement. Full descriptions are provided in the *Panels, Scripts and Variables* manual.

```
[SCRIPT script-name
   [APPLTIME application-timeout-limit]
   [DOMAX domax-limit]
   [MDTHON [YES|NO]]
   [RPQLSCRIPTAUTO [YES|NO]]
   [SIMRPQ [Yes|No]]
```

The following SCRIPT operations may be embedded within TPSL structures and interspersed with TPSL LETs and RETURNs.

```
[AUDITMSG message-text]

[BRANCH label name ]
   [LAB label name ]

[CALL script-name]

[CALLEXIT [DATA user-data] [RSN exit-reason-code]]

[DISPAPPL [FLUSH]]

[ERASE [Eof|All]]

[EXTRACT DATA variable-name
   [FROM row|variable-name
   [TO [col|variable-name]] col|variable-name] ]

[HOME]

[INPUT [PASS  |[CURSOR row col]
   [KEY key|NO]
   [SBA [row|variable-name col|variable-name]|[No|OFF] ]
   [TEXT text] ] ]

[INSCAN inscan-string
   [FROM row|row-variable col|col-variable]
      [TO row|row-variable [col|col-variable] ]|
       AT row|row-variable [col|col-variable] ]

[ISZCMD command] (any valid Session Manager command)

[OUTSCAN outscan-string
   [FROM row|row-variable [col|col-variable]
      [TO row|row-variable [col|col-variable] ]|
       AT row|row-variable [col|col-variable] ]

[PAUSE seconds|variable-name]

[TDEQ enqueue-value ]

[TENQ enqueue-value ]

[TAB [Forward|Backward]]

[TRACEON]

[TRACEOFF]

[USERMSG PANEL panel-name|TEXT usermsg-text]

[VCALL variable-name | 'script-name']

[WAITAPPL [DISPLAY [Yes|No|ON|OFF]]
     [TIMEOUT timeout-value ] [KEEP] ]

[WAITTERM [PASS]]
```

Verbs – Scripts, Application Builder scripts, and Windows

Script verbs are parameters that cause actions to take place. When using Application Builder scripts, these verbs can be used with other ordinary session script parameters to define scripts that enable you to build a new application. A Window script displays one or more windows which can be used to run sessions.

General descriptions of the Application Builder feature and the Session Manager Windows feature can be found in the *Installation and Customization* manual and *User and Administrator* manual respectively.

Script and Application Builder script verbs

```
[ENDSESS [SESSION session-id] ]

[WAITDATA [PASS] [TIMEOUT timeout-value ] [KEEP] ]
```

Application Builder script verbs

```
[HALTSCRIPT session-id]

[READSESS variable-name
   [FROM row|row-variable [ col|col-variable ] ]
   [TO col|col-variable]  ]

[RUNSCRIPT session-id script-name]

[SENDATA/SENDVAL variable-name|literal
   SESSION session-id|RPARTNER]

[STARTSESS session-id]
```

Windows script verbs

```
WACTIVATE [WINDOW window-identifier|window-name]

WAITEVENT ESCAPE|MSG|SESSEND|SWITCH

WALTER [WINDOW window-identifier|window-name]
  [ORIGIN ROW row COLumn col|OFFSET offset]
  [ENDPOS ROW row COLumn col|OFFSET offset]
  [SIZE DEPTH depth WIDTH width]
  [NAME window-name]
  [BORDER border-set-name|NONE]
  [OWNER window-identifier|window-name|NONE]
  [REMATTr [Yes|No|ON|OFF]]
       [SESSION session-number|session-pfkey
            [OUTPUT [Yes|No|ON|OFF]]
    or WINPANEL panel-name
    or WINTEXT message-text ]

WBACKGROUND [CHAR background-character]
  [attr-list|REFATTR attr-char|variable-name]]
```

```
WBORDER NAME border-set-name
  [TOP [CHAR character]
     [attr-list|REFATTR attr-char|variable-name]
     [TEXT [COLumn col]
           [FIELD variable[(nnn)]|literal
           [attr-list|REFATTR attr-char |
                character-variable]]]
     [NONE]]
  [BOTTOM (see TOP parameter) ]
  [LEFT (see TOP parameter) ]
  [RIGHT (see TOP parameter) ]
  [DEFAULT (see TOP parameter) ]
  [CORNER CHAR character]
  [BOX]

WCLOSE [WINDOW window-identifier|window-name]

WHIDE [WINDOW window-identifier|window-name]

WIDENTIFY [CURSOR]
  [LOCATION ROW row COLumn col|OFFSET offset]
  [WINDOW window-identifier|window-name]

WNORM [WINDOW window-identifier|window-name]

WOPEN [ORIGIN ROW row COLumn col|OFFSET offset]
  [ENDPOS ROW row COLumn col|OFFSET offset]
  [SIZE DEPTH depth WIDTH width]
  [NAME window-name]
  [BORDER border-set-name|NONE]
  [OWNER window-identifier|window-name|NONE]
  [REMATTr [Yes|No|ON|OFF]]
     [SESSION session-number|session-pfkey
     [OUTPUT [Yes|No|ON|OFF]]
  or WINPANEL panel-name
  or WINTEXT message-text ]

[WCA [Yes|No|ON|OFF]]

WPOP [WINDOW window-identifier|window-name]

WSCROLL [WINDOW window-identifier|window-name]
    [VERTICAL vertical-scroll-value]
    [HORIZONTAL horizontal-scroll-value]

WZOOM [WINDOW window-identifier|window-name]
```

TPSL syntax

The Panel and Script Language consists of seven logic statements. DO, IF, and SELECT statements may be used to build TPSL structures, and LET, ITERATE, LEAVE, and RETURN statements are used for TPSL operations.

TPSL structures and operations may be used in combination with specialized PANEL and SCRIPT keywords, within the PANEL and SCRIPT statements, to control logic and to alter or define data for output on screens, or input for Session Manager and applications. A subset of these logic statements can also be used anywhere in the configuration file to control definition of the Session Manager system. The full definition can be found in the *Panels, Scripts and Variables* manual.

Testing – simple condition

```
IF [NOT] conditional-expression
    [AND|OR [NOT] conditional-expression]
        [THEN]
        one or more operations
[ELSE one or more operations]
END
```

Testing – multiple choice

```
SELECT|CASE
    WHEN [NOT] conditional-expression-1
        [AND|OR [NOT] conditional-expression-2
            [THEN]
            one or more operations
    WHEN [NOT] conditional-expression-3
        [AND|OR [NOT] conditional-expression-4
            [THEN]
            one or more operations
    ...
    WHEN [NOT] conditional-expression-n
        [AND|OR [NOT] conditional-expression-n
            [THEN]
            one or more operations
   [ ELSE
       one or more operations]
END
```

Looping

```
DO
    WHILE conditional-expression |
    UNTIL conditional-expression |
    FOREVER                      |
    FOR nnn|variable-name
one or more operations
END
```

For a full description of *conditional-expression* as used in the previous three statements, refer to 'The IF Statement' in the *Panels, Scripts and Variables* manual.

Assignment

```
LET variable-name | &variable-name =
    variable|literal|string|arithmetic-expression |function
```

where *function* can be one of:

```
ABBREV (string input length)
ABS (number)
ADDOUT (string row col attr)
APPLINF (stem)
BCASTINF (stem)
BLKICNV (character-block-id)
BLKOCNV (hex-block-id)
CENTRE (string length pad)
CHANGESTR (string1 string2 new)
COMPARE (string1 string2 pad)
COPIES (string n)
COUNTSTR (string1 string2)
CURRYEAR ()
DELSTR (string n length)
DELWORD (string n length)
DLOGINF (stem,start,max)
D2X (variable)
ENTDATA (fieldnum extdata row-col-prefix)
ENTRY_IO ('operation' ddname other_parms)
ESMAUTHOLA (username)
ESMAUTHUSER (newpassword/newpassphrase)
ESMCHKUSERGROUP (username)
ESMGROUP ()
ESMPROF (stem)
ESMSIGNON ()
ESMVERIFYUSER(password/passphrase)
EXTRAUTH (command_variable keyword_variable)
FORMATMSG (nnnn 'SEND'|'SENDNO' 'MSGID'|'ID'|'NOID' P1 P2...P9)
GFSACTIV ()
GFSSTATS (subscript)
GFSSTOR (subscript)
GFSUSAGE (subscript)
GROUPINF (stem)
INQUIRE()
INSERT (new string n length pad)
KEYPOS (string words n)
LASTPOS (string1 string2 n)
LEFT (string length pad)
LENGTH (string)
LOCKINF (termid)
MAX (n1 ... nx)
MIN (n1 ... nx)
OVERLAY (new string n length pad)
PASSIN (session)
PASSOUT (session)
POS (string1 string2 n)
REVERSE (string)
RIGHT (string length pad)
SESSINF (userid,qualifier,sessionid)
SIGN (number)
SMDESC (profilename)
SMHPROF (profilename)
SMSTATUS (profilename)
SPACE (string n pad)
```

```
SPLXLOCUSER ('U' | 'T', object, stem <,'ALL'>)
SPLXLOG (stem)
SPLXNODES (stem)
STRIP (string 'B' | 'L' | 'T' char)
SUBSTR (string n length pad)
SUBWORD (string n length)
TMSG (variable)
UPPER (string)
USERINF (userid,qualifier,eclipseflag)
VERIFY (string chars 'N'|'M' n)
WORD (variable)
WORDINDEX (string n)
WORDLENGTH (string n)
WORDPOS (string1 string2 n)
WORDS (variable)
XMLTRANS (string)
X2D (variable)
```

Altering the flow within a DO loop

```
ITERATE
```

Exiting – immediately from a DO loop

```
LEAVE
```

Exiting – early termination of logic processing

```
RETURN
```

CHAPTER 3

Session Manager variables

Many variables are available within IBM Session Manager for z/OS. These can be used in a range of situations and provide for powerful product customization. They can be separated into a number of groups:

- Session Manager supplied variables (see page 51)
- Panel variables (see page 53)
- Terminal variables (see page 55)
- User variables (see page 57)
- Session variables (see page 59)
- Session statistics and response time monitor variables (see page 62)
- Facility-related variables (see page 64)
- TPSL and SCRIPT processing variables (see page 67)
- Session Manager user definable variables (see page 73)

Using the tables

In the following tables the column headed Modifiable contains either R/O for read-only variables or R/W for read-write variables which are modifiable. Certain are indicated as Y/N, which signifies that the variable is modifiable, but only from certain screens.

The column headed Format indicates the format of the information held by the variable, where ‘x’ is an alphanumeric character and ‘n’ is a numeric character.

The column headed Parm, where it is included, indicates the address in the parameter list at which the variable can be found. A full description is given in the ‘Session Manager user exit processing’ chapter in the *Installation and Customization* manual.

Session Manager supplied variables

Global variables

Global variables may be used on any parameter that accepts variable substitution, although on certain parameters their use would be nonsensical.

For descriptions of the column headings, see 'Using the tables' on page 50.

Variable name	Modifiable	Format
smax	R/W	nnn
t_applid	R/O	xxxxxxxx
t_authclass	R/O	xxxxxxxx
t_authresn	R/O	xxx ... xxx
t_company	R/O	xxx ... xxx
t_config_suf	R/O	xx
t_copyr	R/O	xxx ... xxx
t_dapplcheck	R/O	x
t_date	R/O	dd/mm/yy or mm/dd/yy
t_date_l	R/O	dd/mm/yyyy or mm/dd/yyyy
t_day	R/O	xxx ... xxx
t_dynmalog	R/O	Y or N
t_dynmautsthid	R/O	Y or N
t_dynmclass	R/O	xxxxxxxx
t_dynmdropsess	R/O	Y or N
t_dynmhide	R/O	Y or N
t_dynmlogmax	R/O	nnnn
t_dynmresnm	R/O	xxx ... xxx
t_dynmtype	R/O	APPL or VTAMAPPL
t_e21_script	R/O	x
t_esmprfacc	R/O	x
t_esmprfclnm	R/O	xxxxxxxx
t_esmprfrsnm	R/O	xxx ... xxx
t_feature	R/O	nnnnnnnnnnnnnnn
t_genresname	R/O	xxxxxxxx

Variable name	Modifiable	Format	
t_global_msg	R/W	x	
t_global_msgdef	R/O	x	
t_hardenu	R/O	Y or N	
t_month	R/O	xxx ... xxx	
t_mxcpass	R/O	x	
t_n	R/O	xxxxx	Session Manager (program name)
t_ola	R/O	x	
t_olaresn	R/O	xxx ... xxx	
t_opsys	R/O	z/OS	
t_p	R/O	xxx	ISZ (program prefix)
t_passphrase	R/O	x	
t_passwordreq	R/O	x	
t_pgmname	R/O	5697-N61 IBM Session Manager for z/OS *v.rmmX*	
t_security	R/O	x	
t_signonaccess	R/O	x	
t_signonclass	R/O	xxxxxxxx	
t_signonresname	R/O	xxx ... xxx	
t_sos_msg	R/O	xxx ... xxx	
t_sysname	R/O	xxxxxxxx	
t_tcp_stack	R/O	xxx ... xxx	
t_terminalaccess	R/O	x	
t_terminalclass	R/O	xxxxxxxx	
t_terminalresnam	R/O	xxx ... xxx	
t_time	R/O	hh.mm.ss	
t_tss_emsgr	R/O	x	
t_tvnode	R/O	xxxxxxxx	

Panel variables

Common panel variables

Common panel variables may be used on any panel definition, and some of them must be defined for certain panels.

For descriptions of the column headings, see 'Using the tables' on page 50.

Variable name	Modifiable	Format
t_aid	R/W	x
t_aid_c	R/O	xxxx
t_cmd_ok	R/O	x
t_command	R/W	xxx ... xxx
t_cursor_name	R/W	xxxxxxxx
t_cursfld	R/O	xxxxxxxx
t_curssub	R/O	x
t_lastsess	R/O	nnnn
t_menuntop	R/W	nnnn
t_menutop	R/W	nnnn
t_message	R/W	xxx ... xxx
t_more_lines	R/O	x
t_panel	R/W	xxxxxxxx
t_reccnt	R/O	nnn
t_repdof	R/W	nnn
t_rephdr	R/O	xxx ... xxx
t_replen	R/O	nnnn

Note t_menutop only applies to the menu panel.

Signon panel variables

These variables are available for definition on signon panels. The values are also made available to the E21 exit point of the User exit.

For descriptions of the column headings, see 'Using the tables' on page 50.

Variable name	Modifiable	Format
t_affinity	R/W	xxxxxxxx
t_npass	R/W	xxxxxxxx
t_nphrase	R/O	xxxxxxxx

Variable name	Modifiable	Format
t_nprof	R/W	xxxxxxxx
t_olagroup	R/O	xxxxxxxx

Special Session Manager displays

Special displays are those which display Session Manager preformatted data, such as those used for QUERY command replies, displaying the audit file, and displaying broadcasts. Note that panels containing the t_data variable are not pageable in the same way that an Application Selection panel or Help panel is pageable. With most panels, the paging commands cause the format of the panel to be moved. With panels containing a set of t_data variables, for example the supplied DATA panel, the paging commands scroll the values of the t_data variable, the format does not alter.

For descriptions of the column headings, see 'Using the tables' on page 50.

Variable name	Modifiable	Format
t_data	R/O	xxx ... xxx
t_tskid	R/O	xxx ... xxx

Terminal variables

Terminal description variables

Terminal description variables contain values pertaining to the terminal, and may not be updated.

For descriptions of the column headings, see 'Using the tables' on page 50.

Variable name	Modifiable	Format
t_apl	R/O	x
t_ccsid	R/O	xxxx
t_colour	R/O	x
t_dbcs	R/O	x
t_depth_alt_part	R/O	nnn
t_depth_def_part	R/O	nnn
t_esm_rc	R/O	xxx
t_exthi	R/O	x
t_ge	R/O	x
t_ipaddr	R/O	xxx.xxx.xxx.xxx
t_ipport	R/O	xxxxx
t_logm	R/O	xxxxxxxx
t_logm_bf	R/O	xxxxxxxx
t_luname	R/O	xxxxxxxx
t_model	R/O	x
t_mts_modl	R/O	xxxxxxxx
t_mts_prt1	R/O	xxxxxxxx
t_mts_prt2	R/O	xxxxxxxx
t_netid	R/O	xxxxxxxx
t_pss	R/O	x
t_rtermcls	R/O	xxxx
t_rtermid	R/O	xxxx
t_saf_rc	R/O	xx
t_sna	R/O	x
t_termcls	R/O	xxxx
t_termid	R/O	xxxxxxxx
t_termtyp	R/O	xxxx

Variable name	Modifiable	Format
t_width_alt_part	R/O	nnn
t_width_def_part	R/O	nnn
t_wsfrpq	R/O	x

Terminal cursor variables

Terminal cursor variables provide the current position of the cursor on screen. Their main use is in the panel processing section of Session Manager panels.

For descriptions of the column headings, see 'Using the tables' on page 50.

Variable name	Modifiable	Format
t_csr_row	R/O	nnn
t_csr_col	R/O	nnn
t_csr_ofs	R/O	nnnn

User variables

User associated variables

User associated variables contain user related information, much of which is taken from the configuration data. Some of the variables may be updated.

For descriptions of the column headings, see 'Using the tables' on page 50.

Variable name	Modifiable	Format
t_actcmd	R/W	PF1-PF24, or NONE
t_actprf	R/W	x
t_appcdata	R/O	xxx ... xxx
t_auth	Y/N	n
t_deauthmsg	Y/N	n
t_dsrng_from	R/O	nnnn
t_dsrng_to	R/O	nnnn
t_fmtopt	R/O	x
t_hcprof	R/W	xxxxxxxx
t_lang	R/W	xx
t_maxusrlogin	R/O	xxxx
t_menu	R/O	xxxxxxxx
t_msgid	R/O	x
t_node	R/O	xxxxxxxx
t_pass	Y/N	xxxxxxxx
t_phrase	R/O	xxxxxxxx
t_prof	R/O	xxxxxxxx
t_record	R/O	xxxx
t_saf_rc		
t_script	R/W	xx
t_security_class	Y/N	xxxxxxxx
t_share	R/O	x
t_shareacb	R/O	xxxxxxxx
t_signed_on	R/O	x
t_signonpanel	R/O	x
t_submenus	R/O	x
t_tn3270e	R/O	x

Variable name	Modifiable	Format
t_tn3270e_name	R/O	xxxxxxxx
t_user	Y/N	xxxxxxxx
t_user_acb	R/W	xxxxxxxx
t_user_appl	R/O	xxxxxxxx
t_user_qual	R/O	xxxxxxxx
t_userdata1 - t_userdata5	R/O	xxx ... xxx
ucsautoparm	R/O	xxxxxxxx
ucrestesc*n*	R/O	xxxxxxxx
unrestescrow*n*	R/O	xxx
unrestesccol*n*	R/O	xxx

User escape command variables

For all escape commands, the case is significant for input. Thus, if t_esc is defined as 'HH', then if 'hh' is keyed as input, it will not be recognized as the menu escape command.

For descriptions of the column headings, see 'Using the tables' on page 50.

Variable name	Modifiable	Format
t_auto	R/W	xxxxxxxx
t_bwd	R/W	xxxxxxxx
t_cut	R/W	xxxxxxxx
t_esc	R/W	xxxxxxxx
t_fwd	R/W	xxxxxxxx
t_hcmd	R/W	xxxxxxxx
t_paste	R/W	xxxxxxxx
t_prev	R/W	xxxxxxxx
t_pull	R/W	xxxxxxxx
t_push	R/W	xxxxxxxx

Session variables

Session detail variables

These variables relate to details of the session definition.

For descriptions of the column headings, see 'Using the tables' on page 50.

Variable name	Modifiable	Format
s_a	R/O	nnn
s_aa	R/O	xxx
s_acb	Y/N	xxxxxxxx
s_acb_x	Y/N	xxx ... xxx
s_allowesc	R/W	x
s_appl	Y/N	xxxxxxxx
s_applid	Y/N	xxxxxxxx
s_auto_seq	R/W	xxxxxxxx
s_auto_script	R/W	xxxxxxxx
s_blnkscript	R/O	xxxxxxxx
s_brdvar	R/W	xxx ... xxx
s_cmd	Y/N	xxx ... xxx
s_cmdret	R/W	x
s_cols	R/O	nnn
s_colsa	R/O	nnn
s_conceal	R/W	x
s_desc	R/W	xxx ... xxx
s_desc_d	R/O	xxx ... xxx
s_dropsess	R/O	x
s_escape	R/W	x
s_flash	Y/N	xxx ... xxx
s_hidden	R/O	x
s_imsconvertc	Y/N	x
s_logd	Y/N	xxx ... xxx
s_logd_x	Y/N	xxx ... xxx
s_logm	Y/N	xxxxxxxx
s_miser	R/O	n
s_model	R/O	x

Variable name	Modifiable	Format
s_mts_modl	R/W	xxxxxxxx
s_mts_prt1	R/W	xxxxxxxx
s_mts_prt2	Y/N	xxxxxxxx
s_netid	R/W	xxxxxxxx
s_node	Y/N	xxxxxxxx
s_n	R/O	nnn
s_pstkappl	R/O	xxxxxxxx
s_pstkuser	R/O	xxxxxxxx
s_ref	Y/N	x
s_rejbb	Y/N	x
s_rows	R/O	nnn
s_rowsa	R/O	nnn
s_runinitsc	R/O	x
s_runstartsc	R/O	x
s_s	R/O	nnn
s_sel	R/W	xxxxxxxx
s_sequence	R/O	nnnn
s_sescount	R/O	nnnnn
s_sessdata1 - s_sessdata5	R/O	xxx ... xxx
s_sestype	R/O	nnnn
s_script_cmds	R/W	x
s_shareterm	R/O	xxxxxxxx
s_size	R/O	nnnnn
s_sizea	R/O	nnnnn
s_sm_prof	NO	x
s_sna	R/O	x
s_start	Y/N	x
s_status_updates	Y/N	x
s_tran	R/W	xxxxxxxx
s_standby	R/O	x

TCP/IP variables

TELNET panel variables

The following variables are used to provide TCP/IP TELNET support in Session Manager.

For descriptions of the column headings, see 'Using the tables' on page 50.

Variable name	Modifiable	Format
s_tcp_url	R/O	nnn
s_telnet_hidec	R/O	x

TCP/IP session variables

Variable name	Modifiable	Format
s_telnet_port	R/O	nnnn
s_telnet_user	R/O	nnnn
s_telnet_pswd	R/O	nnnn
s_telnet_host	R/O	xxxxxx
s_tcp_stype	R/O	xxxxxx
s_telnet_output	R/O	xxx ... xxx
s_telnet_lupd	R/O	x
s_telnet_lmore	R/O	x
s_telnet_more	R/O	nnn
s_tn3270e	R/O	x
s_tn3270e_dev	R/O	xxxxxxxx

Session statistics and response time monitor variables

The following variables are available only if the session has STATS R/W specified. They can be used by panels, scripts and exit scripts. The E39 exit script is the place where the totals for a a session should be recorded.

For descriptions of the column headings, see 'Using the tables' on page 50.

Session statistics variables

Variable name	Modifiable	Format
s_stat_sict	R/O	nnnn
s_stat_siby	R/O	nnnnnnnn
s_stat_soct	R/O	nnnn
s_stat_soby	R/O	nnnnnnnn
s_stat_ioct	R/O	nnnn
s_stat_ioin	R/O	nnnnnnnn
s_stat_ioon	R/O	nnnnnnnn
s_stat_iict	R/O	nnnn
s_stat_iiin	R/O	nnnnnnnn
s_stat_iion	R/O	nnnnnnnn
s_stat_ifct	R/O	nnnn
s_stat_ifon	R/O	nnnnnnnn
s_stat_ifct	R/O	nnnn
s_stat_ibon	R/O	nnnnnnnn
s_stat_cmct	R/O	nnnn
s_stat_cmin	R/O	nnnnnnnn
s_stat_cmon	R/O	nnnnnnnn

Response time monitor variables

Variable name	Modifiable	Format
s_rtm_rtmt1	R/O	nn.nn
s_rtm_rtmt2	R/O	nn.nn
s_rtm_strtt	R/O	nnnnnnnn
s_rtm_strtd	R/O	nnnnnnnn
s_rtm_restt	R/O	nnnnnnnn

Variable name	Modifiable	Format
s_rtm_restd	R/O	nnnnnnnn
s_rtm_restu	R/O	nnnnnnnn
s_rtm_restm	R/O	nnnnnnnn
s_rtm_restp	R/O	nnnnnnnn
s_rtm_tot1	R/O	nnnn
s_rtm_tot2	R/O	nnnn
s_rtm_tot3	R/O	nnnn
s_rtm_totav	R/O	nn.nn
s_rtm_totlg	R/O	nn.nn
s_rtm_totlt	R/O	nnnnnnnn
s_rtm_totld	R/O	nnnnnnnn
s_rtm_net1	R/O	nnnn
s_rtm_net2	R/O	nnnn
s_rtm_net3	R/O	nnnn
s_rtm_netav	R/O	nn.nn
s_rtm_netlg	R/O	nn.nn
s_rtm_netlt	R/O	nnnnnnnn
s_rtm_netld	R/O	nnnnnnnn
s_rtm_app1	R/O	nnnn
s_rtm_app2	R/O	nnnn
s_rtm_app3	R/O	nnnn
s_rtm_appav	R/O	nn.nn
s_rtm_applg	R/O	nn.nn
s_rtm_applt	R/O	nnnnnnnn
s_rtm_appld	R/O	nnnnnnnn

Facility-related variables

For descriptions of the column headings, see 'Using the tables' on page 50.

Hardcopy option variables

The various values are obtained from the HCOPTION parameters of the HCPROFILE configured for the user. The HCPROFILE name is contained in the User Associated variable, t_hcprof.

Variable name	Modifiable	Format
t_hcop	R/O	xxx ... xxx
t_hcop_n	R/O	nn
t_hcformat	R/O	xxxxxxxx
t_hcroute	R/O	xxxxxxxx
hmax	R/O	nnn

Demonstration and viewer variables

Demo/View variables contain values pertaining to the use of the Demonstration and View feature.

Variable name	Modifiable	Format
t_daut	R/O	x
t_dint	R/O	x
t_dkey	R/W	xxxxxxxx
t_dnview	R/O	nnn
t_dtermid	R/O	xxxxxxxx
t_duserid	R/O	xxxxxxxx
t_inview	R/W	nnn
t_inview_n	R/W	xxxxxxxx
t_unview	R/W	nnn
t_unview_n	R/W	xxxxxxxx

Application Builder variables

The following variables pertain to the Application Builder.

Variable name	Modifiable	Format
t_sendval.n	R/O	xxxxxxxx
t_sendvals	R/O	xxx

Window variables – user level

The following variables give general information regarding the status of windowing for a user. All variables except t_w_status contain a default value:

Zero For numeric-type variables

Blanks For character-type variables, when windowing is inactive.

Variable name	Modifiable	Format
t_w_curses	R/O	nnn
t_w_esc	R/W	xxxxxxxx
t_w_event	R/O	x
t_w_id	R/O	nnn
t_w_input	R/O	xxxxxxxx
t_w_msg	R/O	xxxxxxxx
t_w_mstime	R/O	xxxxxxxx
t_w_msuser	R/O	xxxxxxxx
t_w_name	R/O	xxxxxxxx
t_w_status	R/O	x
t_w_zoom	R/O	nnn
t_windows	R/O	nnn

Window variables – window level

The following variables are subscripted, with one copy of each per window. The subscript for each window is its window identifier; for the currently active window this value is held in the variable t_w_id. When no subscript is specified, the currently active window is assumed.

All the following variables contain a default value:

Zero For numeric-type variables.

Blanks For character-type variables when windowing is inactive, or the subscript does not refer to an open window.

Variable name	Modifiable	Format
w_active	R/O	x
w_aid	R/O	x
w_border	R/O	xxxxxxxx
w_cdepth	R/O	nnn
w_csr_col	R/O	nnn
w_csr_ofs	R/O	nnnn
w_csr_row	R/O	nnn

Variable name	Modifiable	Format
w_cwidth	R/O	nnn
w_depth	R/O	nnn
w_end_col	R/O	nnn
w_end_ofs	R/O	nnnn
w_end_row	R/O	nnn
w_name	R/O	xxxxxxxx
w_org_col	R/O	nnn
w_org_ofs	R/O	nnnn
w_org_row	R/O	nnn
w_output	R/O	x
w_owned	R/O	nnn
w_owner	R/O	nnn
w_scrollh	R/O	nnn
w_scrollv	R/O	nnn
w_session	R/O	nnn
w_visible	R/O	x
w_wca	R/O	x
w_width	R/O	nnn
w_zoom	R/O	x

Window variables – session level

The following variables are subscripted, with a copy of each one per window session.

Variable name	Modifiable	Format
s_w_id	R/O	nnn
s_w_name	R/O	xxxxxxxx

TPSL and SCRIPT processing variables

For descriptions of the column headings, see 'Using the tables' on page 50.

Return code variables

These variables are set by the execution of most script statements and TPSL statements. They indicate the success or failure of the execution of that statement.

Variable name	Modifiable	Format
t_rc	R/W	nnnnn
t_result	R/W	nnnnn

Script verb variables

The following variables are set by the execution of 'script verbs', for example OUTSCAN.

Variable name	Modifiable	Format
s_inscan_col	R/O	nnn
s_inscan_row	R/O	nn
s_outscan_col	R/O	nnn
s_outscan_row	R/O	nn
t_inplen	R/O	nnnn
t_recur_script	R/W	x
t_scparms	R/W	xxx ... xxx
t_waitdata	R/O	x

Exit script variables

The following variables are used by exit scripts to access the exit parameters of the User exit.

Variable name	Modifiable	Parm	Format
ec_rcode	R/O	1	nnn
ec_reason	R/O	1	xxxxxxxx
ec_julian	R/O	1	xxxxxxxx
ec05_name	R/O	4	xxx ... xxx
ec05_keywd	R/O	4	xxx ... xxx
ec05_record	R/O	5	xxx ... xxx

Variable name	Modifiable	Parm	Format
ec06_appl	R/O	4	xxxxxxxx
ec06_nstatus	R/O	4	x
ec06_ostatus	R/O	4	x
ec11_ttype	R/O	4	xxxx
ec11_term	R/O	4	xxxxxxxx
ec11_logm	R/O	4	xxxxxxxx
ec11_bind	R/O	4	xxx ... xxx
ec11_prof	R/O	5	xxxxxxxx
ec11_sign	R/O	5	x
ec11_user	R/W	6	xxxxxxxx
ec11_pass	R/W	6	xxxxxxxx
ec11_npass	R/W	6	xxxxxxxx
ec11_nprof	R/W	6	xxxxxxxx
ec11_nsign	R/W	6	x
ec21_ttype	R/O	4	xxxx
ec21_term	R/O	4	xxxxxxxx
ec21_logm	R/O	4	xxxxxxxxx
ec21_bind	R/O	4	xxx ... xxx
ec21_euser	R/O	5	xxxxxxxxx
ec21_epass	R/O	5	xxxxxxxxx
ec21_enpass	R/O	5	xxxxxxxxx
ec21_eprof	R/O	5	xxxxxxxxx
ec21_enode	R/O	5	xxxxxxxxx
ec21_config	R/O	6	x
ec21_cauth	R/O	6	xx
ec21_cpass	R/O	6	xxxxxxxxx
ec21_cprof	R/O	6	xxxxxxxxx
ec21_cnode	R/O	6	xxxxxxxxx
ec21_npass	R/W	7	xxxxxxxxx
ec21_nprof	R/W	7	xxxxxxxxx
en21_nauth	R/W	7	xx

Variable name	Modifiable	Parm	Format
ec21_ruser	R/W	7	x
ec21_rpass	R/W	7	x
ec21_rnpass	R/W	7	x
ec21_rnprof	R/W	7	x
ec21_nnode	R/W	7	xxxxxxxxx
ec21_ndata	R/W	7	xxx ... xxx
ec22_ttype	R/O	4	xxxx
ec22_term	R/O	4	xxxxxxxxx
ec22_logm	R/O	4	xxxxxxxx
ec22_bind	R/O	4	xxx ... xxx
ec22_user	R/O	5	xxxxxxxx
ec22_pass	R/O	5	xxxxxxxx
ec22_prof	R/O	5	xxxxxxxx
en22_auth	R/W	5	xx
en22_autos	R/W	6	nn
ec26_ttype	R/O	4	xxxx
ec26_term	R/O	4	xxxxxxxxx
ec26_logm	R/O	4	xxxxxxxx
ec26_bind	R/O	4	xxx ... xxx
ec26_user	R/O	5	xxxxxxxx
ec26_prof	R/O	5	xxxxxxxx
ec29_ttype	R/O	4	xxxx
ec29_term	R/O	4	xxxxxxxxx
ec29_logm	R/O	4	xxxxxxxxx
ec29_bind	R/O	4	xxx ... xxx
ec29_user	R/O	5	xxxxxxxx
ec29_pass	R/O	5	xxxxxxxx
ec29_prof	R/O	5	xxxxxxxx
en29_auth	R/O	5	xx

Variable name	Modifiable	Parm	Format
ec31_ttype	R/O	4	xxxx
ec31_term	R/O	4	xxxxxxxxx
ec31_logm	R/O	4	xxxxxxxxx
ec31_bind	R/O	4	xxx ... xxx
ec31_user	R/O	5	xxxxxxxx
ec31_pass	R/O	5	xxxxxxxx
ec31_prof	R/O	5	xxxxxxxx
en31_auth	R/O	5	xx
ec31_taskida	R/O	6	SAAnnnnn
ec31_taskidb	R/O	6	xxxxxxxx
ec31_appl	R/W	6	xxxxxxxx
ec31_acb	R/W	6	xxxxxxxx
ec31_slogm	R/W	6	xxxxxxxx
ec31_script	R/W	6	xxxxxxxx
ec31_data	R/W	6	xxx ... xxx
ec33_ttype	R/O	4	xxxx
ec33_term	R/O	4	xxxxxxxxx
ec33_logm	R/O	4	xxxxxxxxx
ec33_bind	R/O	4	xxx ... xxx
ec33_user	R/O	5	xxxxxxxx
ec33_pass	R/O	5	xxxxxxxx
ec33_prof	R/O	5	xxxxxxxx
en33_auth	R/O	5	xx
ec33_taskida	R/O	6	SAAnnnnn
ec33_taskidb	R/O	6	xxxxxxxx
ec33_applid	R/O	6	xxxxxxxx
ec33_acb	R/O	6	xxxxxxxx
ec33_appl	R/O	6	xxxxxxxx
ec33_dstream	R/W	7	xxx ... xxx
ec36_ttype	R/O	4	xxxx
ec36_term	R/O	4	xxxxxxxxx

Variable name	Modifiable	Parm	Format
ec36_logm	R/O	4	xxxxxxxxx
ec36_bind	R/O	4	xxx ... xxx
ec36_user	R/O	5	xxxxxxxx
ec36_prof	R/O	5	xxxxxxxx
ec36_taskida	R/O	6	SAAnnnnn
ec36_taskidb	R/O	6	xxxxxxxx
ec36_applid	R/O	6	xxxxxxxx
ec36_acb	R/O	6	xxxxxxxx
ec36_slogm	R/O	6	xxxxxxxx
ec39_ttype	R/O	4	xxxx
ec39_term	R/O	4	xxxxxxxxx
ec39_logm	R/O	4	xxxxxxxxx
ec39_bind	R/O	4	xxx ... xxx
ec39_user	R/O	5	xxxxxxxx
ec39_pass	R/O	5	xxxxxxxx
ec39_prof	R/O	5	xxxxxxxx
en39_auth	R/O	5	xx
ec39_ taskida	R/O	6	SAAnnnnn
ec39_taskidb	R/O	6	xxxxxxxx
ec39_applid	R/O	6	xxxxxxxx
ec39_acb	R/O	6	xxxxxxxx
ec39_slogm	R/O	6	xxxxxxxx
ec79_ttype	R/O	4	xxxx
ec79_term	R/O	4	xxxxxxxxx
ec79_logm	R/O	4	xxxxxxxxx
ec79_bind	R/O	4	xxx ... xxx
ec79_user	R/O	5	xxxxxxxx
ec79_pass	R/O	5	xxxxxxxx
ec79_prof	R/O	5	xxxxxxxx
en79_auth	R/O	5	xx
ec79_ taskida	R/O	6	xxxnnnnn

Variable name	Modifiable	Parm	Format
ec79_taskidb	R/O	6	xxxxxxxx
ec79_applid	R/O	6	xxxxxxxx
ec79_acb	R/O	6	xxxxxxxx
ec79_appl	R/O	6	xxxxxxxx
ec79_oapplid	R/O	6	xxxxxxxx
ec79_napplid	R/O	6	xxxxxxxx
ec79_dstream	R/W	7	xxx ... xxx

Session Manager user definable variables

Any number of user definable variables may be used. A user definable variable is defined when it first has data assigned to it. They are distinguished from Session Manager supplied variables by the variable name prefix, the first character of which indicates the scope of the variable as follows:

Prefix	Scope	Description
G	Global	The variable takes the same value throughout the system and is available until system shutdown.
U	User	The variable has a different value for each user and is available while a user is active.
L	Local	The variable is temporary, it is only applicable within the current PANEL or SCRIPT definition and any called sub-definitions or scripts.

The second character of the prefix defines the data type, that is, C for 'character', or N for 'numeric'. The rest of the name, which may be up to 14 more characters, may be any alphanumeric character or an underscore character (_).

Subscripting user definable variables

User definable variables may be subscripted to form one-dimensional arrays. The special variables sub1 to sub9 may be used for subscripting, or any element may be referenced by an absolute value. The user definable variable name is restricted to 11 characters so that the subscript name can be accommodated in the maximum total length of 16 characters.

Variable name	Format
sub1,sub2, ...,sub9	nnn

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Bibliography

IBM Session Manager library

The following publications contain information about IBM Session Manager.

Installation and Customization	GC34-7146-01
Technical Reference	SC34-7147-01
User and Administrator	SC34-7150-01
Panels, Scripts and Variables	SC34-7148-01
Messages and Codes	GC34-7152-01
Quick Reference	SC34-7151-01
Online and Batch Administration	SC34-7149-01
Program Directory	GI13-0564-00

Accessibility

Accessibility for people with disabilities

The following features make it easier for disabled people to use Session Manager:

- Operation by keyboard alone
- Optional font enlargement
- High-contrast display settings
- Can be used with screen readers
- Absence of audio prompts.

Changing font, color and display settings

Session Manager can be controlled using a 3270 emulator such as IBM Personal Communications or Hummingbird HostExplorer. Refer to the emulator documentation for guidance on adjusting font and color settings.

Using Session Manager with a screen reader

Screen readers can be used to provide accessible output for blind users. Session Manager has been tested with the following screen readers:

- Jaws version 4.5, using Hummingbird HostExplorer and the script file for Hummingbird HostExplorer
- WindowEyes 4.2, using Hummingbird HostExplorer and the set file for Hummingbird HostExplorer.

Contact the screen reader manufacturer for information about the availability of set and script files.

Documentation

Softcopy PDF documentation is shipped with Session Manager. The documentation supports optional font enlargement, high-contrast display settings, and may be operated by the keyboard alone. Alternative text is not provided for screen-reader users. Fully accessible softcopy documentation, with alternative text for diagrams, will be made available on request. Contact your IBM service representative for information.

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