

Changes and Enhancements

Introduction

This section describes the features of SAS System under OS/2 that have been implemented or enhanced since Release 6.12. Version 8 changes and enhancements are preceded by the symbol **V8**. All other changes and enhancements described in this section were included in Version 7. For information about changes and enhancements to base SAS software, see the base SAS documentation. For information about changes and enhancements to other SAS products, see the documentation for those products.

Graphical User Interface

For information on using the graphical user interface (GUI), see “Overview of the SAS System Interface” on page 26 and “Printing” on page 101. Some of the GUI features include

Docking view

The docking view allows for easy navigation within SAS by integrating certain windows, such as the Explorer window and the Results window, into the left side of the main SAS window. Files that you open from the docking area open as a separate window in the remaining SAS workspace. You can undock individual windows if you prefer.

pull-down menu enhancements

The **Local**, **Global**, and **Options** pull-down menus have been removed.

You can use the **View** menu to access the **Program Editor**, **Log**, **Output**, **Graph**, **Explorer**, **Results**, and **My Favorite Folder** windows.

You now set options and customize tools from the **Tools** menu. The **Tools** menu also provides access to various SAS editors.

The **Solutions** menu provides access to applications for analysis, presentation, program development, reporting, and accessories.

Also, icons are associated with some of the menu items.

pop-up menu support

There are now more places within the main SAS window that have pop-up menus when you click the right mouse button.

command bar enhancements

SAS remembers commands that you have entered from previous SAS sessions. If you reenter a command, SAS recognizes the command and automatically completes the command for you.

toolbar enhancements

Using the Customize Tools dialog box, you can add, delete, and modify tools on the toolbar as well as specify the Help and screen tip text to display.

Page Setup dialog box

The Page Setup dialog box lets you interactively define global settings for paper orientation and margins, instead of defining these settings for each printer from the Print Setup dialog box.

Print dialog box

Using the Print dialog box, you can select a printer, the window, number of copies, and page range you want to print. You can also specify if you want to print the output as a bitmap or to print to a file.

Preferences dialog box enhancements

The Preferences dialog box categorizes settings on different pages:

General page

contains settings for listing recently used files in the File menu, exit settings, submitting the contents of a file when it is opened, and e-mail options.

View page

has settings for window components that you would like available in the main SAS window, such as scrollbars, command line, docking view, window bar, and status line.

Edit page

has options for the overtype mode, autosave features, and **VB** unmarking with navigation keys.

Results page

has options to select HTML and conventional listing output.

Web page

is where the user defines their preferred Web browser and the Web page to open when the Web browser is invoked.

Advanced page

contains scrolling options for the Output and Log windows as well as options to hide the cursor in noninput windows and to disable focus on scroll bars.

Basic Operation of the SAS System

The basic operation of the SAS System under OS/2 has been enhanced as follows:

multiple-installation support

Setup now handles separate invocations. A single uninstall action correctly removes all previously installed SAS System files.

Setup dialog box selections

The Setup dialog boxes have been reorganized so that **Personal**, **Client**, and **Server** installations can be more easily selected and performed.

network performance

SAS configuration information has been better organized so that performance across a network is improved.

enhanced configuration file processing

Multiple configuration files are now allowed as well as embedding the CONFIG system option within a configuration file. In addition, the SAS System will automatically search several locations for configuration options.

printing enhancements

Printers are now identified using the printer name of printers defined to OS/2. You no longer need to specify a port name. Additional improvements to printing include new options that provide programmatic control of settings that were previously available only in interactive dialog boxes.

Program Editor enhancements include

- The CTRL+DELETE key deletes the current word instead of the whole line.
- Using the ALT key when you hold the mouse button selects a rectangular block of text.
- The SHIFT key in combination with the mouse button extends the selection of a text area.
- When you are copying text to the clipboard, the text stays selected after the copy.
- When you are pasting text into the Program Editor while text is highlighted, the highlighted text is replaced with new text.
- The Sasfont bitmap font displays faster and looks better on the display, so it is the default display font. The SAS Monospace font looks better in printed output and scales to many point sizes, so it is the default printer font.

dialog boxes

For dialog boxes such as the Open or Save As dialog boxes, file types and filenames are associated with the window that invokes the dialog box. These changes allow the window that invokes the dialog box to set the default file type and filename.

The DLGOPEN command has been enhanced to extend support for complex filters, which include filters with spaces and single quotation marks.

font scripting

The capability to specify the script (codepage) to be used with a font is a new feature. With this feature you can use fonts that have codepages other than the default codepage currently in use by the SAS System. Font scripting is useful for international SAS users who more than one character set at a time. For example, users can now create SAS/AF FRAME entries that use a Cyrillic, Greek, and Western European font at the same time.

Application Integration

In addition to communications made possible with pipes, DDE, and external DLL access, more support is now available in

Lotus Notes

Lotus Notes support has been improved to allow the export of SAS System output with formatting information such as line breaks retained. Report output can now be directly exported to Lotus Notes for groupware sharing without changing the report format that was generated. For more information, see “Introduction to Using Groupware with the SAS System” on page 129

SAS Language Elements

The following SAS language elements have been enhanced:

Formats

The following SAS format and informat have been enhanced:

\$HEX w . format

converts character values to hexadecimal values. The width range is increased to 1–32767.

\$HEX w . informat

converts hexadecimal data to character data. The width range is increased to 1–32767.

For more information on formats, see “SAS Formats under OS/2” on page 235.

Functions and CALL Routines

□ The following SAS function has been enhanced:

COLLATE

generates a collating sequence character string. The 200-character restriction has been removed.

□ The following SAS functions and CALL routines are no longer supported:

□ HOSTHELP

□ CALL ANSI2OEM

□ CALL OEM2ANSI

For more information on functions and call routines, see “SAS Functions under OS/2” on page 245.

Macros

The following SAS automatic macro variables are new:

SYSCC

contains the current SAS condition code that SAS returns to OS/2 when you exit SAS.

SYSMAXLONG

returns the maximum long integer value that is allowed under OS/2.

For more information on macros, see “SAS Macro Facility under OS/2” on page 391.

Procedures

The following SAS procedure is no longer supported:

V5TOV6

For more information on procedures, see “SAS Procedures under OS/2” on page 273.

Statements

The following SAS statements are new:

V8 SYSTASK

executes, lists, or terminates asynchronous tasks.

V8 WAITFOR

suspends execution of the current SAS session until the specified tasks finish executing

The following SAS statements have been enhanced:

LIBNAME

associates a libref with a SAS data library, lists file attributes for a SAS data library, and can concatenate libraries. The valid values for the *engine-name* argument were modified:

- V8 the V8 engine was added as the current BASE engine
- the V7 engine was added to access Version 7 data sets.
- the V6 engine was added to access the data sets for Release 6.04 and Release 6.06 through Release 6.12 .

New host options for the LIBNAME statement include

- SHORTFILEEXT
- LONGFILEEXT

FILENAME

associates a SAS fileref with an external file or logical file device. The FILENAME statement now supports wildcard characters.

For more information on statements, see “SAS Statements under OS/2” on page 289.

Commands

The following SAS commands are new:

DLGPAGESETUP

opens the Page Setup dialog box.

WATTENTION

displays the Tasking Manager window which allows you to select which SAS process to terminate.

WAUTOSAVE

controls how often the SAS System automatically saves work from the editor windows.

WEXITSAVE

toggles the Save settings on exit feature.

WHIDECURSOR

toggles hiding the cursor in non-input windows.

V8 WNAVKEYUNMARK

toggles the setting to unmark text using navigational keys.

WSCREENTIPS

toggles the ScreenTips on and off.

For more information on commands, see “SAS Commands under OS/2” on page 196.

System Options

- The following SAS system options are new:

FONTSLC

specifies the directory location of the files that contain the SAS fonts that are loaded during the SAS session.

GISMAYS

specifies the name of the SAS data library that contains U.S. Census Tract maps supplied by SAS/GIS software.

HOSTPRINT

specifies that the OS/2 printer is to be used for printing.

LONGFILTER

specifies an alternative set of file filter specifications to use for the Open and Save As dialog windows.

MSGCASE

specifies whether notes, warnings, and error messages that are generated by SAS are displayed in uppercase characters.

RESOURCELOC

specifies the directory location of the files that contain SAS resources.

V8 SASINITIALFOLDER

specifies the current working folder and the default folder for the Open and Save As dialog boxes.

SCROLLBARFLASH

specifies whether to allow scrollbars to receive keyboard focus.

SHORTFILEEXT

defines all SAS libraries to support three-character file extensions.

UNBUFLOG

specifies the log to be unbuffered.

- The following SAS system options have been enhanced:

ENGINE

specifies the default access method for SAS data libraries. The valid values for the *engine-name* argument were modified:

- V8 the V8 engine was added as the current BASE engine
- the V6 engine was added to access Release 6.08 through Release 6.12 data sets, replacing the V608, V609, V610, V611, and V612 engines.

CONFIG

specifies an alternative SAS configuration file. CONFIG may now be used multiple times on the command line or within configuration files.

- The following SAS system options no longer have details that are specific for OS/2:

CBUFNO

MSGLEVEL

NEWS

SYNCHIO

For more information on system options, see “SAS System Options under OS/2” on page 313.

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