Chapter 24

The OPTIONS Procedure

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Overview

The OPTIONS procedure lists the current settings of SAS system options. The results are displayed in the SAS log.

SAS system options control how the SAS System formats output, handles files, processes data sets, interacts with the operating environment, and does other tasks that are not specific to a single SAS program or data set. You can change the settings of SAS system options

  □ in the SAS command
  □ in a configuration or autoexec file
  □ in the SAS OPTIONS statement
  □ through the SAS System Options window
  □ by using SCL functions
  □ in a STARTSAS window or a STARTSAS statement.

For information on SAS system options, see the section on SAS system options in SAS Language Reference: Dictionary.

The log that results from running PROC OPTIONS shows both the portable and host systems options, their settings, and short descriptions. Output 24.1 on page 682 shows a partial log that displays the settings of portable options through those that begin with the letter “C.”

    proc options;
    run;
Output 24.1 Log showing a Partial Listing of SAS System Options

```
1 proc options;
2 run;
   SAS (r) Proprietary Software Release 7.XX.XXXXXXXXXXX

Portable Options:
NOBATCH Do not use the batch set of default values for SAS system options
BINDING=DEFAULT Controls the binding edge for duplexed output
BOTTOMMARGIN= Bottom margin for printed output
BUFNO=1 Number of buffers for each SAS data set
BUFSIZE=0 Size of buffer for page of SAS data set
BYERR Set the error flag if a null data set is input to the SORT procedure
BYLINE Print the by-line at the beginning of each by-group
NOCAPS Do not translate source input to uppercase
NOCARDIMAGE Do not process SAS source and data lines as 80-byte records
CATCACHE=0 Number of SAS catalogs to keep in cache memory
CBUFNO=0 Number of buffers to use for each SAS catalog
CENTER Center SAS procedure output
NOCHARCODE Do not use character combinations as substitute for special characters not on the keyboard
CLEANUP Attempt recovery from out-of-resources condition
NOCMDMAC Do not support command-style macros
NOCOLLATE Do not collate multiple copies of printed output
COLORPRINTING Print in color if printer supports color
COMPRESS=NO Specifies whether to compress observations in output SAS data sets
CONNECTREMOTE= Remote session ID used by SAS/CONNECT software
CONNECTSTATUS Show the current status of a SAS/CONNECT upload or download transfer
CONNECTWAIT Wait for a SAS/CONNECT rsubmit to finish before allowing further processing to occur
CONSOLELOG= Location of console log
COPIES=1 Number of copies to make when printing
CPUID Print CPU information at beginning of log
```

Output 24.2 on page 682 shows a log that PROC OPTIONS produces for a single SAS system option.

```
options pagesize=60;
  proc options option=pagesize;
run;
```

Output 24.2 The Setting of a Single SAS System Option

```
1 options pagesize=60;
2 proc options option=pagesize;
3 run;
   SAS (r) Proprietary Software Release 7.XX.XXXXXXXXXXX

   PAGESIZE=60 Number of lines printed per page of output

   NOTE: PROCEDURE OPTIONS used:
```
Procedure Syntax

PROC OPTIONS <option(s)>;

PROC OPTIONS Statement

PROC OPTIONS <option(s)>;

To do this Use this option
Choose the format of the listing
   Specify the long form LONG
   Specify the short form SHORT
Restrict the number of options displayed
   Display options belonging to a group GROUP=
   Display host options only HOST
   Display portable options only NOHOST
   Display a single option OPTION=

Options

GROUP=group-name
displays the options in the group specified by group-name. For more information on options groups, see SAS Language Reference Dictionary.

HOST | NOHOST
displays only host options (HOST) or displays only portable options (NOHOST).
   Alias: PORTABLE is an alias for NOHOST.

LONG | SHORT
specifies the format for displaying the settings of the SAS system options. LONG lists each option on a separate line with a description; SHORT produces a compressed listing without the descriptions.
   Default: LONG
   Featured in: Example 1 on page 684

NOHOST
See HOST | NOHOST.

OPTION=option-name <DEFINE> <VALUE>
displays a short description and the value (if any) of the option specified by option-name. DEFINE and VALUE provide additional information about the option.
option-name
specifies the option to use as input to the procedure.

DEFINE
displays the short description of the option, as well as its type, and how to set and display its value.

VALUE
displays the option value and scope, as well as how the value was set.

**Requirement:** If a SAS system option uses an equals sign, such as PAGESIZE=, do not include the equals sign when specifying the option to OPTION=.

**Featured in:** Example 2 on page 685

**SHORT**
See LONG | SHORT.

---

**Results**

**SAS Log**
SAS writes the options list to the SAS log. SAS system options of the form option | NOoption are listed as either option or NOoption, depending on the current setting, but they are always sorted by the positive form. For example, NOCAPS would be listed under the Cs.

Operating Environment Information: PROC OPTIONS produces additional information that is specific to the environment under which you are running the SAS System. Refer to the SAS documentation for your operating environment for more information about this and for descriptions of host-specific options.

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**Examples**

**Example 1: Producing the Short Form of the Options Listing**

**Procedure features:**
PROC OPTIONS statement option:
SHORT

This example shows how to generate the short form of the listing of SAS system option settings. Compare this short form with the long form shown in “Overview” on page 681.
Program

SHORT lists the SAS system options and their settings without any descriptions.

```
proc options short;
run;
```

Log (partial)

```
1  proc options short;
2   run;
SAS (r) Proprietary Software Release 7.XX.XXXXXXXXX
Portable Options:
  NOBATCH BOTTOMMARGIN= BUFNO=1 BUFSIZE=0 BYERR BYLINE NOCAPS NOCARDIMAGE
  CATCACHE=0 CBUFNO=0 CENTER NOCHARCODE CLEANUP NOCMDDMAC NOCOLLATE
  COLORPRINTING COMPRESS=NO CONNECTREMOTE= CONNECTSTATUS CONNECTWAIT
  CONSOLELOG= COPIES=1 CPUID DATASTMTCHK=COREKEYWORDS DATE NODetails DEVICE=
  DEFLANG=ENGLISH DERRCOND=ERROR DEROCOND=WARN DLDFMGACTION=REPAIR NODMR NODMS
```

Example 2: Displaying the Setting of a Single Option

Procedure features:
- PROC OPTIONS statement option:
  - OPTION=
  - DEFINE
  - VALUE

This example shows how to display the setting of a single SAS system option. The log shows the current setting of the SAS system option PAGESIZE=. The suboptions DEFINE and VALUE display additional information.

Program

```
PAGESIZE=60 sets the pagesize to 60.
```

```
options pagesize=60;
```

```
OPTION=PAGESIZE displays the setting of PAGESIZE in the log. DEFINE and VALUE display additional information.
```
proc options option=pagewize DEFINE VALUE;
run;

Log

1   options pagesize=60;
2   proc options option=pagewize DEFINE VALUE;
3   run;

SAS (r) Proprietary Software Release 7.XX.XXXXXXXXXX

Option Value Information For SAS Option PAGESIZE
Option Value: 60
Option Scope: Line Mode Process
How option value set: Options Statement

Option Definition Information for SAS Option PAGESIZE
Description: Number of lines printed per page of output
Type: The option value is of type LONG
Range of Values: The minimum is 15 and the maximum is 32767
Valid Syntax(any casing): MIN|MAX|n|nK|nM|nG|hex
When Can Set: Startup or anytime during the SAS Session

NOTE: PROCEDURE OPTIONS used: