



# SASware Ballot<sup>®</sup> Results

OVERALL RANK	RANK WITHIN PART	NUMBER OF VOTES
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## PART I SAS Language

### General

26	8	262	enable simple indexes to have a name other than that of the index variable
33	9	248	add diagnostic messages with space used in utility files
42	11	232	provide a system option to turn off the automatic correction of SAS code syntax
55	14	196	provide a tool that enables SPD Engine table components (metadata, indexes, data) to be restored to a different location than originally specified
123	18	63	provide the ability to register SAS servers so that they accept only libnames that use the metadata LIBNAME engine (MLE)
162	20	37	provide the ability to allocate multiple Meta libraries with a single LIBNAME statement that uses syntax such as LIBNAME . META LIBURI="@Name='Prefix-'; where '.' indicates that the libref that is defined in the metadata repository is to be assigned and that each library whose name begins with 'Prefix-' is to be allocated

### DATA Step

7	3	361	enhance the ARRAY statement to enable dynamic <code>_TEMPORARY_</code> array processing so that the number of elements can change with each use
38	10	238	provide a HASH ITERATOR method to reset any locks on the hash table so that table can be cleared without deleting the hash iterator object
43	12	231	provide an alternative method of creating a DATA Step view for simple views such as <code>data one / view;</code> to create a view named <code>WORK.ONE</code>
73	15	134	add an option on the INFILE statement that enables you to perform case-insensitive comparisons by including <code>@'string'</code> on the INPUT statement



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## PART I SAS Language

### *Functions*

3	1	400	enable the MAX and MIN functions to take a single argument as the SUM function does
16	6	314	add a new function that can check for the existence of an operating environment variable, and add an additional argument to the SYSGET function in order to stop the error message if the environment variable is not found
17	7	306	change the default length of the SCAN function from 200 to the length of the first argument
45	13	227	enable the YRDIF function to take two parameters and set the default for the third parameter to 'ACT/ACT'

### *Informats and Formats*

5	2	376	enhance the YMDDTTMw. datetime informat to enable it to read an AM or PM, if present, in the time portion of the value, and provide a datetime YMDDTTMw. format
188	22	19	provide the ability to specify the implied decimal specification for the TRAILSGNw. informat

### *SAS Windowing Environment*

13	4	332	add the ability to resize the Open Program and Save As dialog boxes
105	17	76	add an option to designate non-text characters that can be used as word boundaries when double-clicking on a "word"

### *Enhanced Editor*

15	5	326	add a command to select all code in a PROC or DATA step
77	16	122	add an option to save bookmarks for SAS programs that are edited in the Enhanced Editor



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<b>PART I</b>				
<b>SAS Language</b>				
<b>Enhanced Editor</b>				
	148	19	51	enable more than 401 Enhanced Editor abbreviations
	184	21	21	add an option to deselect highlighted text when using the EDCMD command
<b>PART II</b>				
<b>Base SAS Procedures</b>				
<b>PROC CDISC</b>				
	152	13	46	enable PROC CDISC to include audit records as part of the ODM file
	157	14	42	add a new variable for ODM that allows you to record a physical unit of measure for a data item or value
<b>PROC DATASETS</b>				
	1	1	465	add the NOPRINT option on the PROC DATASETS statement
	4	3	396	provide the ability to retrieve all metadata regarding a SAS data set from one location
<b>PROC FORMAT</b>				
	41	7	233	enable informatted ranges to convert real numbers to character values
	72	10	135	add new directives to the PICTURE statement that enable you to display duration in days, hours, and minutes
<b>PROC MEANS</b>				
	78	11	120	add the ability to obtain harmonic means



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## PART II Base SAS Procedures

### *PROC REPORT*

71

9

136

provide the ability to assign a value of zero to the CELLWIDTH attribute for a column under an ACROSS variable

### *PROC SORT*

8

4

352

add an option to allow PROC SORT to preserve the compression of an input data set when creating the output data set

### *PROC SQL*

2

2

438

add syntax that enables you to trim values when creating macro variables that use the INTO clause

24

6

265

add an option to fail queries when a GROUP BY clause is converted to an ORDER BY clause

52

8

207

enhance natural joins to keep original column attributes

### *PROC TRANSPOSE*

9

5

351

add support for transposing variable attributes such as format, informat, type, and length

### *PROC UNIVARIATE*

110

12

72

add the Generalized Extreme Value distribution

## PART III SAS Macro Facility

10

1

340

provide a system option that would keep all global macro variables from being overwritten



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## PART IV SAS Output Delivery System (ODS)

### *General*

38

1

238

provide the ability to add the BY-group value in the name of a file that is created when using the NEWFILE=BYGROUP ODS option

### *PRINTER (PCL, PDF, PS)*

63

2

167

add the ability to insert comments in PDF files that are created by ODS

## PART V XML LIBNAME Engine

93

1

87

provide the ability to write multiple data sets to a file using an XML map

117

2

67

provide the ability to add comments using the SAS XML Mapper

## PART VI SAS/GRAPH

### *General*

69

3

143

provide the ability to specify uneven axis tick mark values with the ActiveX and Java device drivers

74

5

133

provide an option to define breaks in axis values to display extreme values without showing the entire axis range

75

6

130

add the ability to apply a format to labels with the REFLABEL option on the AXIS statement

80

8

116

provide support for a SPLIT= option on the LEGEND statement

100

13

78

enable multiple split characters to be honored by the SPLIT= option on an AXIS statement

103

14

77

provide the ability to produce vector graphics in an EMF format file with ODS GRAPHICS



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## PART VI SAS/GRAPH

### *PROC GBARLINE*

64	1	160	provide the ability to create multiple plot lines using a category variable
66	2	152	provide the ability to automatically generate the same scale for the bar and plot axes
79	7	118	provide an option to place text labels on top of bars, symbols, and lines
95	10	84	provide the ability to create area fills under the plot lines

### *PROC GEOCODE*

131	22	57	provide an option that enables you to include variables from the input data set in the geocode output data set
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### *PROC GKPI*

144	25	53	enable the use of user-defined formats
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### *Graph Template Language*

69	3	143	provide the ability to generate grouped-box plots
92	9	89	enable the use of more symbol markers
97	12	81	provide the ability to display minor tick marks on all axes
105	15	76	provide the ability to produce a stem-and-leaf plot
107	16	75	provide the ability to create bubble plots of varying size bubbles
127	20	60	provide the ability to set DRILLTARGET=_SELF so that drill-down output is displayed in the same window
130	21	58	provide the ability to split axis values based on a given value
131	22	57	enable the use of the WHERE= option on GTL plot statements to allow further subsetting of data at the individual plot level



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## PART VI SAS/GRAPH

### *Graph Template Language*

144	25	53	provide the ability to format, position, and align statistics that are displayed with the DISPLAYSTATS option for the BOXPLOT statement
149	27	50	add an option to the ENTRY statement that enables you to wrap text entries
152	28	46	provide the ability to display statistics with the LOESS statement
156	29	44	provide a better algorithm for collision avoidance for the text from the CURVELABEL option
159	30	40	provide the ability to specify a fill pattern for the BARCHARTPARM statement
167	31	32	provide the ability to specify a group variable for ellipse computations
173	32	29	provide an option to offset the curve-label text attributes

### *ODS Statistical Graphics*

96	11	83	provide the ability to wrap long variable names or labels in a scatter-plot matrix
110	17	72	provide the ability to order the panels in PROC SG PANEL
112	18	71	provide the ability to include an inset within the panels
120	19	65	provide the ability to generate jittered-dot plots
136	24	56	provide the ability to create an ellipse plot with PROC SG PANEL

## PART VII SAS/AF

51	1	217	provide an interface that enables you to visually display the contents of an SCL list
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## PART VII SAS/AF

171

2

30

add a parameter to the PUTLIST function that enables you to limit the depth to which a list is printed

## PART VIII SAS AppDev Studio

### *General*

159

1

40

enable multiple developers who are working on the same Web Infrastructure Platform Web application to concurrently test against a common BI installation

## PART IX SAS BI Dashboard

76

1

123

provide the ability to define titles that are based on data values

136

2

56

provide the ability to display column labels in the data model if they are available

139

3

55

provide the functionality to sort or specify the order of indicators

154

4

45

add options to enable text wrapping

169

5

31

provide the ability to suppress the display of the indicator name

176

6

27

enhance the user interface that is available for defining ranges

180

7

23

provide additional options to define a Bar and Trend display

183

8

22

enable users to choose the method for drawing intervals on detail plot

184

9

21

provide the ability for partial promotion of content



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## PART X SAS Add-In for Microsoft Office

18	1	298	provide an automated capability to apply existing filters to new data
29	2	254	provide an option to enable users to control the output location to which logs and results are written
44	3	228	provide the ability to navigate to SAS server files that are not already defined as SAS libraries
50	4	218	enable users to sort items using a collating sequence
90	5	90	provide the ability to cancel the SAS connection to the Workspace Server
109	6	73	provide the ability to open SAS Web Report Studio reports onto separate worksheets

## PART XI SAS Enterprise Guide

### *General*

6	1	375	automatically trim trailing blanks from variable values before exporting the values to an Excel spreadsheet
11	2	335	provide the ability to preview a SAS program within a project that has been specified using the %INCLUDE statement
12	3	333	provide users the ability to copy and paste both data values and column headers in the data grid
18	4	298	provide the ability to password-protect a process flow in order to prohibit changes
20	5	295	provide an invocation option that enables you to launch a custom task at startup
21	6	290	provide the ability to perform a universal search-and-replace operation across all tasks within a project



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## PART XI SAS Enterprise Guide

### *General*

22	7	270	provide the ability to keep the Properties window open while editing code in order to copy column information into the Code window
25	8	264	add the ability to enter comments as part of the properties for a task
28	9	261	provide the ability to print page numbers
30	10	252	provide an option that enables you to specify whether the DSD option should be used when you are importing data
32	11	249	provide the ability to specify the name of the catalog in which to store a new format definition in the Create Format task
33	12	248	provide a visual cue in the process flow for tasks that include custom code
35	13	244	add the ability to branch the Conditional Logic node based on the occurrence of an error
37	14	239	provide an option that enables you to open multiple output data sets into separate tabs without having to go back to the Process Flow to open additional result tables
40	15	237	provide a way to acquire more control over the icon size and associated text within the process flow
48	16	221	prompt the user before overwriting a program that is open within a Code window, if the program has also been modified externally by another user
54	17	201	provide a keyboard shortcut that enables you to copy a table name from the server list
59	18	188	provide support for sorting prompts from within the Select Prompt dialog box
62	19	170	provide an option that enables you to retrieve all distinct values when applying a filter



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## PART XI SAS Enterprise Guide

### General

65	20	154	add an option that enables you to control whether the Send To E-mail Recipient feature compresses all files into one attached file or attaches each file individually to an e-mail
82	21	112	provide the ability to reference macro variables and other project information, such as name, date, and time, when exporting results or tables
84	22	103	provide the Run button with the same functionality as the Submit button in the Base SAS windowing environment
86	23	96	provide the ability to directly rename a task without having to select Edit
100	24	78	provide the ability within the interface to export data to a fixed-width file
100	24	78	enable the Summary Tables task to create a totals page in the resulting output
113	26	70	provide the ability to specify a Z variable in 2D plots and a color variable in 3D plots
136	27	56	add a new task that enables you to generate a distance or similarity matrix that can be used for clustering
139	28	55	provide an option that enables users to bypass the default behavior that creates a table for any task that generates a plot
158	29	41	provide additional support for explicit passthrough for DBMS-specific statements within the Query Builder, like "WITH UR", or "Uncommitted Read", for a DB2 query
162	30	37	provide the ability to view the description of an OLAP cube after the cube has been opened into the project
167	31	32	add a task that generates PROC CORRESP code
176	32	27	provide a warning when a prompt name must be converted from double-byte characters to single-byte characters and allow user to manually edit the name



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## PART XI SAS Enterprise Guide

### *OLAP Analyzer*

180

33

23

display the descriptions for OLAP cube dimensions within the OLAP Analyzer

## PART XII SAS Information Delivery Portal

115

1

69

enable portlets to be maximized

118

2

66

provide the ability to change the browser title

120

3

65

provide an option that enables each link or application to open into a new window

122

4

64

enable users to add comments to content

127

5

60

enable users to share content with multiple groups

142

6

54

provide a configuration option that enables you to disable the display of share type and group associations for pages and portlets

144

7

53

provide the functionality to present additional pages to the user, based on the page they select

164

8

36

add a date column to the Publications Channel Subscriptions portlet

## PART XIII SAS Information Map Studio

98

1

80

provide the ability to create global filters and prompts that can be reused in other maps

107

2

75

provide the ability to add prompted filters as a pre-filter on an information map

166

3

35

provide a method that will prevent columns from being sorted when inserting a data source



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## PART XIII SAS Information Map Studio

169

4

31

provide the ability to see the dimension description when an OLAP dimension is added to a map

## PART XIV SAS OLAP Server

### *General*

57

2

192

provide the ability to refresh updated formats without restarting the SAS OLAP Server

131

5

57

provide the ability to cancel all OLAP sessions that have been open longer than a specified amount of time

### *SAS OLAP Cube Studio*

55

1

196

provide the ability to select multiple member values by using the CTRL or SHIFT keys when applying member-level security instead of having to add each member individually

58

3

190

append the .sas file extension to generated code if no extension is provided

60

4

177

use unique icons to visually differentiate between the different types of cube dimensions that include standard, time, and measures

180

6

23

provide the ability to define a product as a simple calculation in the Calculated Members interface

187

7

20

provide the ability to coalesce all aggregations within the Aggregation Tuning interface

192

8

18

display the number of existing racks that are created during incremental updates for each aggregation of a cube within the Aggregation Tuning interface

193

9

17

provide the ability to select the default ARM log location from the configuration file in the drop-down list in the Aggregation Tuning interface



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## PART XV SAS Web Report Studio

103	1	77	provide the ability to cascade a prompt down to multiple equally dependent prompts
118	2	66	allow the creation of prompts where you have the option to specify a value
123	3	63	add the ability to hide the Table of Contents and Data Selection panes so that users cannot expand or collapse them
129	4	59	provide the ability to combine smaller categories into a slice that is labeled as "other" and control what values are represented by this slice
142	5	54	add the ability to clear the list of recently opened reports
164	6	36	provide the ability to use a rollover mechanism for the SAS Web Report Studio log

## PART XVI SAS/STAT

### *General*

139	9	55	implement a randomized parallelizable, truncated SVD algorithm for dense matrices
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### *PROC BOXPLOT*

67	1	151	add an option that enables you to form groups using combined levels of the group-variable and block-variables, instead of using only the group-variable
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### *PROC GENMOD*

84	3	103	provide exact poisson regression
123	7	63	provide quasi-least squares (QLS) estimation of the working correlation matrix for generalized estimating equations (GEE) models



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<b>PART XVI</b>				
<b>SAS/STAT</b>				
<b>PROC LIFETEST</b>				
	154	12	45	add a Turnbull algorithm
<b>PROC LOESS</b>				
	131	8	57	produce residuals in ODS table ScoreResults
<b>PROC PHREG</b>				
	83	2	106	compute an ROC curve and c-statistic (area under the curve)
	90	4	90	add the ability to fit random effects models including frailty models
	94	5	85	provide the capability to automatically fit smoothing splines
<b>PROC POWER</b>				
	113	6	70	add more tests for non-inferiority analysis to the TWOSAMPLEFREQ statement
<b>PROC QUANTREG</b>				
	151	11	47	add a RESTRICT statement
<b>PROC ROBUSTREG</b>				
	147	10	52	provide the capability to make pairwise comparisons for robust ANOVA
<b>PART XVII</b>				
<b>SAS/ETS</b>				
<b>PROC AUTOREG</b>				
	178	2	26	support the Bai-Perron Multiple Structural Change test and the Andrews Structural Change test



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<b>PART XVII</b>				
<b>SAS/ETS</b>				
<b><i>PROC ESM</i></b>				
	188	4	19	provide the ability to specify starting values for the smoothing state at time t=0
<b><i>PROC PANEL</i></b>				
	171	1	30	support autocorrelation test of residual in the dynamic panel model when level equations are used
<b><i>PROC QLIM</i></b>				
	179	3	25	add a DESCENDING option to reverse the sorting order for the levels of the discrete dependent variable
<b><i>PROC VARMAX</i></b>				
	188	4	19	support a NOESTIMATE option with an INEST= data set to specify the model parameter estimates to be used in forecasting
	188	4	19	support more general RESTRICT statement specifications, such as linear functions of the model parameters
<b>PART XVIII</b>				
<b>SAS/QC</b>				
<b><i>General</i></b>				
	89	2	92	provide a procedure for multivariate process monitoring
<b><i>PROC CAPABILITY</i></b>				
	86	1	96	add support for more distributions, such as the Generalized Extreme Value and Pareto distributions
<b><i>PROC CUSUM</i></b>				
	174	3	28	add an option to reset the cumulative sum



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## PART XVIII SAS/QC

### *PROC RELIABILITY*

184

4

21

add the capability to fit the 3-parameter Weibull distribution to censored lifetime data

## PART XIX SAS High-Performance Forecasting

### *PROC HPF*

194

1

11

add an ERRORCONTROL option, as found in PROC HPFENGINE

## PART XX SAS/ACCESS

### *General*

46

2

224

add a DBSASTYPE option that can be included for PROC SQL Pass-Through queries

99

3

79

add the ability to read and write JMP files through a LIBNAME statement

150

7

49

increase the current default value of the DBMAX\_TEXT option

### *Interface to DB2*

161

8

39

add the flexibility to change the default datatype decisions

### *Interface to OLE-DB*

126

5

62

add an option to the SAS/ACCESS Interface to OLE DB software that enables you to read Boolean data types



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## PART XX SAS/ACCESS

### *Interface to Oracle*

31

1

251

store the label information from a SAS data set into a table comment, and store the variable label information from a SAS data set into a column comment

115

4

69

provide the ability to create a delimited data file, instead of a fixed-length data file, when using the BULKLOAD option to load data to Oracle

174

9

28

add support for Oracle Transparent Application Failover (TAF)

### *Interface to PC File Formats*

131

6

57

add the ability to convert character formats to SPSS value labels using PROC EXPORT

## PART XXI SAS Integration Technologies

### *SAS Stored Processes*

14

1

330

provide a SAS language interface for executing stored processes from a SAS program, including the ability to programmatically control the stored process input and output as well as retrieve execution status

61

2

176

provide the ability to monitor the current status and activity of SAS Stored Process Servers

68

3

147

provide a batch queue framework for execution of stored processes, and include the ability to manage the number of active stored processes and terminate pending or executing stored processes

81

4

115

provide a command line utility for executing stored processes

88

5

95

provide a user interface in SAS Management Console and other client applications to deploy stored processes for execution at scheduled times



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## PART XXII SAS Management Console

26

1

262

add a capability to the User Manager plug-in that enables you to view the indirect and implicit groups or roles that are associated with a user or group identity

46

2

224

provide a search facility for all applicable plug-ins that enables you to quickly locate a specific user or group from the full list of users and groups in the metadata repository

48

3

221

add a capability to the User Manager plug-in that enables you to sort users in a role or group by the Name that is stored in the metadata as well as by the Display Name

## PART XXIII SAS Metadata Server

36

1

243

provide a utility that consolidates the steps that are required to remove a user from the system; the utility should remove the user definition from metadata, remove all access controls that are associated with that user, remove the user's home folder, remove Content Server content that is associated with the user, and provide solution-specific behavior as needed

53

2

202

provide a capability that enables you to use a wildcard character on the SELECT and EXCLUDE statements to include a range of table names; for example, SELECT TEST \*; would select tables with the names TEST1, TEST2, TEST3, TEST4... TESTn



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## PART XXIV Metadata Server Utilities

23	1	267
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provide the ability, when marking a library as pre-assigned, to specify whether the library is assigned by the server with its default engine or the META engine



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## Distribution of Respondent Job Functions

58%	Applications Programmer
28%	Manager/Staff End User Department
15%	Manager/Staff Information Center
33%	SAS Software Consultant
17%	SAS Software Representative
33%	SAS Software Training Coordinator
55%	Statistician
42%	Systems Analyst
40%	Systems Manager