



2003 SASware Ballot® Results

PART I SAS Language	Overall Rank	Part Rank	Number of Votes	Item Number	
<i>General</i>	1.0	1.0	566	8	provide a data set option to reorder variables in a data set
	12.0	9.0	312	7	provide the ability to specify a secondary WORK library
	28.0	10.0	257	9	provide a technical "chat room" on the SAS web site
	48.5	15.0	198	3	disable data set compression "on the fly" for data sets that will not be reduced in size by compression
	58.0	19.0	176	4	provide a system option similar to DKRxCOND to control whether an uninitialized variable is reported as a NOTE, WARNING, or ERROR
	66.5	20.0	168	2	provide the ability to create an index on the result of a DATA step function, such as: DATA foo(INDEX=(SUBSTR(var,1,3)));
	134.5	26.0	73	1	add support for the CASCADE option for delete operations on referential integrity constraints
	152.5	27.0	59	6	add support for surrogate keys and triggers with integrity constraints
	161.5	30.0	53	5	implement GENMAX= as a system option

**PART I
SAS Language**
(cont.)

DATA Step

Overall Rank Part Rank Number of Votes Item Number

4.0 3.0 425 13

produce a message when multiple lengths are specified for the same variable when combining data sets

10.0 8.0 347 14

provide the ability to specify a variable's formatted value without having to use the PUT function and the format name

30.0 12.0 250 11

add an INFILE statement option to specify multi-character delimiters

31.0 13.0 248 16

allow RETAIN to accept a function result as a variable's initial value

51.0 16.0 194 15

provide a form of variable list that uses the variables' suffix

54.5 17.5 184 10

add the ability to allow date literals as the lower or upper bounds of the subscript of the ARRAY statement

158.5 29.0 56 12

enhance the DATA step debugger LIST BREAK command to indicate which break points are conditional and the condition(s) associated with the break point

Functions

8.0 6.0 370 18

add a MODVAR function that could change a variable's name, length, label, format, or informat

29.0 11.0 252 21

provide a function that returns a city name from a zip code

37.0 14.0 227 17

enhance the COMPRESS function to allow it to accept a list of characters not to remove

117.5 25.0 88 19

create a function similar to ZIPSTATE for Canadian postal codes and provinces

155.5 28.0 57 20

generate a libref automatically if a macro variable named in "libref" has a null value

*Informats and
Formats*

9.0 7.0 364 22

increase the maximum field width of the DATEw. format to 11 to include separators

WHERE Statement

6.0 4.0 403 24

create an automatic TITLE containing WHERE subsetting criteria

7.0 5.0 402 23

add case-insensitive character comparison operators



PART I SAS Language

(cont.)

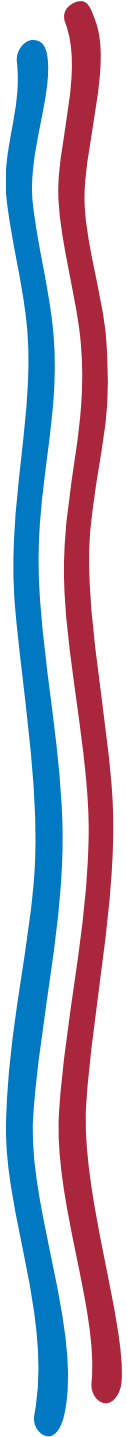
Display Manager System & Enhanced/ Text Editor

Overall Rank	Part Rank	Number of Votes	Item Number	
2.0	2.0	489	30	provide the current date/time in SAS output rather than the date/time of SAS at invocation
54.5	17.5	184	29	provide an Enhanced Editor for UNIX with the same functionality as the Enhanced Editor for SAS on Windows
73.0	21.0	156	25	allow loading and using customized toolbars for the Enhanced Editor
77.0	22.0	146	26	add a menu item to invoke the Change Folder window to set the current folder
88.0	23.0	126	27	add an option to allow new copies of the Enhanced Editor window to duplicate or overlay the current Enhanced Editor window size and location
97.0	24.0	113	28	provide the ability to call the Results Viewer programmatically

PART II Base SAS Procedures

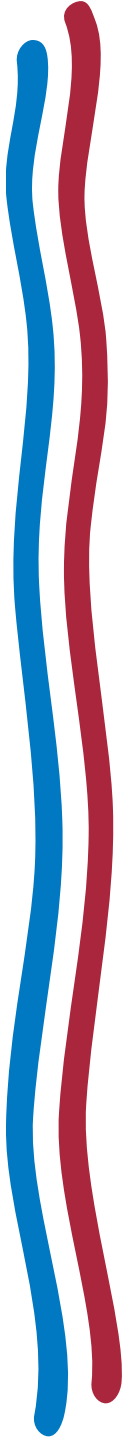
General

20.0	8.0	294	31	provide an option to compute the mode statistic in procedures producing summary statistics such as MEANS, TABULATE, and REPORT
115.0	43.0	90	32	provide support for the COMPRESS system option
11.0	2.0	324	33	add an option to list the variables with unequal values in the output data set
18.0	6.0	298	34	add an option to allow for two or more data sets to be listed in the DATA= option
100.0	40.0	108	35	provide an option to automatically truncate data set and variable names when copying to Version 6 libraries



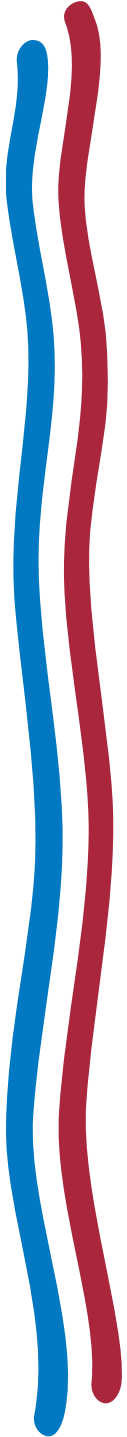
PART II
Base
SAS Procedures
(cont.)

	Overall Rank	Part Rank	Number of Votes	Item Number	
<i>PROC CORR</i>	65.0	25.0	169	36	add an option to print only the upper triangular part of the correlation matrix
	122.0	46.0	83	38	add an option to compute the polyserial correlation between continuous and ordinal variables
	148.0	49.0	61	39	add an option to print the n values in the correlation matrix output when n is constant for all pairs of variables in the matrix
	155.5	50.0	57	37	add an option to compute Lin's concordance correlation coefficient
<i>PROC CPORT</i>	83.0	32.0	139	40	provide an option to allow encryption on transport files
<i>PROC DATASETS</i>	21.0	9.0	290	41	allow for variable lists on the RENAME statement
<i>PROC FORMAT</i>	40.0	17.0	215	44	provide the ability to create a PICTURE format for a character value
	42.0	18.0	210	42	allow the JUSTIFY and UPCASE options to apply to the VALUE statement
	129.5	47.0	79	43	change the output of the FMTLIB option so that a format catalog that was created in an earlier release and has been converted to a later release shows the later release in the LABEL header of the FMTLIB output
<i>PROC FREQ</i>	23.0	11.0	285	45	provide a cross-tab table template
<i>PROC MEANS</i>	22.0	10.0	286	46	provide the ability to calculate the geometric mean
<i>PROC PRINT</i>	3.0	1.0	432	49	provide the ability to display the label of the BY variable rather than the variable name on the summary line
	13.0	3.0	308	47	provide an option to force a page eject if all observations in the current BY group will not fit on the remainder of the page



PART II
Base
SAS Procedures
(cont.)

	Overall Rank	Part Rank	Number of Votes	Item Number	
<i>PROC PRINT</i> (cont.)	19.0	7.0	296	48	provide an option to insert a blank line after every n lines and provide a secondary option to specify the n value
	24.0	12.0	277	50	provide the ability to specify a variable which will trigger calculation of subtotals when its value changes
<i>PROC RANK</i>	84.0	33.0	136	51	add a WEIGHT statement to allow weighting of variable values
<i>PROC REPORT</i>	26.0	13.0	268	56	provide the ability to suppress summary lines when there is only one observation for a group
	36.0	16.0	231	65	provide an option to keep groups from splitting across pages
	57.0	20.0	178	58	provide the ability to add labels and column names to ACROSS variables in an output data set
	59.0	21.0	171	62	allow a header to span more than one ID variable
	62.0	23.0	170	63	provide an option to display GROUP and ORDER variables in one box similar to TABULATE output in HTML, RTF, PDF, and PRINTER destinations
	70.0	27.0	165	57	add the ability to dynamically align text from LINE statements with report columns
	72.0	28.0	160	59	provide the ability to use the break options SKIP, OL, UL, DUL, and DOL in all ODS destinations except OUTPUT
	75.0	29.0	153	60	provide the ability to conditionally execute LINE statements in a COMPUTE block
	76.0	30.0	151	52	provide the ability to use multilabel formats
	87.0	35.0	129	54	provide support for the OF variable list syntax in conjunction with functions such as SUM and MEAN

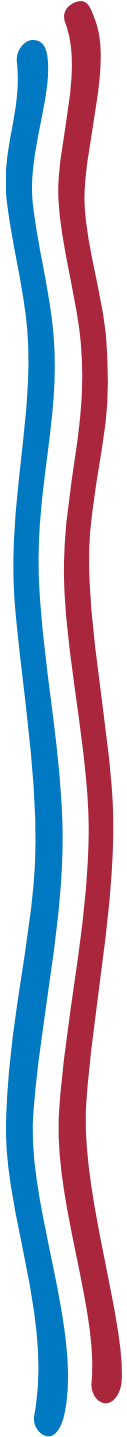


**PART II
Base
SAS Procedures**
(cont.)

PROC REPORT
(cont.)

Overall Rank	Part Rank	Number of Votes	Item Number	
89.5	36.0	125	66	provide ability to determine the end of a physical page in order to place LINE statements in COMPUTE AFTER _PAGE_ blocks for all ODS destinations except OUTPUT
94.0	38.0	116	61	provide a method to have an ORDER/GROUP variable value populate every row when a DISPLAY variable is to the left in the COLUMN statement
110.0	41.0	97	67	provide ability to span special characters in headers for all ODS destinations except OUTPUT
112.0	42.0	96	64	allow placement control of values in the LINE statement via absolute or relative pointers when using ODS destinations other than OUTPUT
117.5	44.0	88	55	allow COMPUTED variables to be up to 32K in length
119.5	45.0	86	53	provide an option used in conjunction with a FLOW'ed ORDER variable which would allow other variables to print alongside the flowed lines of text
34.5	14.5	236	72	provide syntax in PROC SQL for variable lists, specifically on the SELECT clause
45.5	19.0	203	71	provide a MEDIAN function in PROC SQL
62.0	23.0	170	68	allow PROC SQL options as SAS options
62.0	23.0	170	73	add the ability to update a master data set with transactions in PROC SQL using a left join type syntax
66.5	26.0	168	74	add ability to collect more host information like the number of records deleted or updated with the EXECUTE statement
82.0	31.0	141	70	allow PROC SQL to perform implicit type conversions
85.0	34.0	135	69	add transaction processing syntax in PROC SQL

PROC SQL



	Overall Rank	Part Rank	Number of Votes	Item Number	
PART II Base SAS Procedures (cont.)					
<i>PROC STANDARD</i>	141.5	48.0	69	75	add a feature to include new variables in the output data set containing the standardized values of the VAR statement variables in addition to the actual values of the VAR statement variables
<i>PROC TABULATE</i>	15.0	4.0	304	77	allow use of variable lists, such as A1-A3, on the TABLE statement
	16.5	5.0	300	76	add a SPLIT= option to control splitting of labels
<i>PROC TRANSPOSE</i>	34.5	14.5	236	78	provide an option to transpose each row of data into one variable without requiring a unique BY variable
<i>PROC UNIVARIATE</i>	92.0	37.0	121	80	provide Dixon's test for outliers
	95.0	39.0	115	79	provide Grubb's test for outliers
PART III SAS Macro Facility					
	5.0	1.0	409	83	provide a function to determine if a macro variable currently exists
	16.5	2.0	300	81	provide an automatic macro variable that contains the real time a step took to execute
	25.0	3.0	271	82	provide an automatic macro variable that contains the CPU time a step took to execute
	44.0	4.0	204	84	provide an automatic macro variable that contains the folder path of the batch SAS program or the last program opened from the File menu or when SAS is invoked via the registered file type actions
	121.0	5.0	84	85	enhance the RESOLVE function to include support for unprintable characters



PART IV Output Delivery System (ODS)

Overall Rank	Part Rank	Number of Votes	Item Number	
14.0	1.0	307	92	provide an easy to use GUI to generate STYLE template code
45.5	2.0	203	96	provide an option to print the page number on graphics pages in the PRINTER and PDF destinations
74.0	3.0	155	91	provide separate CELLPADDING and CELLSPACING options for horizontal and vertical padding and spacing for all ODS destinations except LISTING and OUTPUT
79.0	4.0	144	100	create an automatic macro variable which contains the path information displayed by the ODS PATH SHOW statement
86.0	5.0	131	88	provide a NOTE for all output destinations when an open destination is closed and a WARNING when an attempt is made to close a destination that is not open
89.5	6.0	125	101	provide a return code and an automatic macro variable showing the completion status of the most recently executed ODS statement
92.0	7.5	121	94	provide the ability to place text in TITLE and FOOTNOTE statements (exclusive to the PRINTER and PDF destinations)
92.0	7.5	121	95	provide an option to control how panels are placed on a page for PRINTER and PDF destinations, such as top to bottom or left to right
97.0	9.0	113	99	provide the ability for TITLE and FOOTNOTE components to have both linked and static portions in the PRINTER and PDF destinations



PART IV
Output Delivery
System (ODS)
(cont.)

Overall Rank	Part Rank	Number of Votes	Item Number	
101.0	10.0	107	90	provide an option that will force as much output as possible to each page without regard for overall look in the PDF and PRINTER destinations
103.0	11.0	104	89	provide the ability to justify images specified in PREIMAGE and POSTIMAGE
107.0	12.0	101	87	provide support for the HBY, CBY, and FBY graphic options for the HTML and RTF destinations
112.0	13.0	96	86	allow COLUMNS= suboption to handle list notation
114.0	14.0	93	98	provide the ability to control the thickness of border rules on links in the PDF destination
141.5	15.0	69	97	add an option to prevent padding of PUT statement output with blanks in the PRINTER destination
144.0	16.0	65	93	allow the TEXT= option to appear on an ODS statement without specifying a destination and display it to all active ODS destinations except OUTPUT
155.5	17.0	57	102	provide a way of programmatically determining the last HTML temporary file created when HTML is selected under the Results tab
212.5	18.0	22	103	set the ASIS=ON attribute as the default when CLASS=BATCH in the PHTML tag set

PART V
SAS/GRAPH
Software

General

32.0	1.0	244	104	add an option to the AXIS statement that allows the positioning of the vertical axis on either the left, right, middle, or at a specific value
------	-----	-----	-----	------------------------------------------------------------------------------------------------------------------------------------------------



**PART V
SAS/GRAPH
Software**

(cont.)

General (cont.)

Overall Rank	Part Rank	Number of Votes	Item Number	
53.0	5.0	188	116	provide a procedure that produces Stem and Leaf Plots in SAS/GRAPH
56.0	6.0	182	107	add an option to the LEGEND statement that can be used with the ACROSS= option to specify whether the entries will be listed across or down; for example: listed across: 1 2 listed down: 1 3 3 4 2 4
62.0	7.0	170	113	provide the ability to use the #BYVAL and #BYVAR options on all SAS statements
68.5	8.0	167	115	add a variable to the Annotate Facility that turns on collision checking in order to reposition and prevent annotated text strings and shapes from overwriting each other
71.0	9.0	161	114	provide a procedure that produces a Venn Diagram
97.0	11.0	113	110	allow annotated lines on graphs to support the HTML= variable, which will provide drilldown capability and "mouse over" chart tip capability with annotated lines
102.0	12.0	106	105	provide the ability to plot variables that are not in the original graph, but are in the data set that contains the variables that are graphed, in order to allow users to change the variables that are plotted from within the control
116.0	14.0	89	112	allow the value for the HTML= drilldown variable with graph procedures to be formatted using a user-defined format
124.5	15.0	82	108	add an option to the ACTION statement of a graphics procedure that assigns colors using a variable

**PART V
SAS/GRAPH
Software**
(cont.)

General (cont.)

	Overall Rank	Part Rank	Number of Votes	Item Number	
	129.5	16.0	79	111	provide the ability to use the HTML= option to associate an HREF/ALT (drilldown and flyover) with line segments drawn by PROC GPLOT (especially useful when a line with no markers is drawn)
	148.0	18.0	61	109	provide the ability for attributes assigned with ODS STYLE SHEETS to be recognized by server-side graphics
	158.5	19.0	56	106	provide the ability to create maps in Graph-n-Go
PROC GAREABAR	193.5	22.0	32	117	support BY-group processing in the GAREABAR procedure
PROC GCHART	47.0	4.0	199	118	add the ability to specify the color, line type, and width of a reference line in PROC GCHART
PROC GMAP	161.5	20.0	53	120	provide the ability to specify the line thickness for individual ID variables
	173.5	21.0	43	119	provide the ability to add a drop shadow to a choropleth map
PROC GPLOT	38.0	2.0	222	121	provide an option that specifies that the tickmark values of an axis are arranged based upon the data order
	41.0	3.0	214	122	provide the ability to generate horizontal box plots
	112.0	13.0	96	123	provide the ability to generate solid-filled bubble plots
PROC GREPLAY	80.5	10.0	142	124	provide an option with PROC GREPLAY that will allow page numbers to be printed on graphs
PROC G3D	139.5	17.0	70	125	provide support of the AXIS statement for the X, Y, and Z axes of a PROC G3D surface or scatter plot on the server side



**PART VI
SAS/STAT
Software**

	Overall Rank	Part Rank	Number of Votes	Item Number	
<i>General</i>	39.0	1.0	219	126	add options to clip extreme outliers so that box plots are more readable when outliers are present
	80.5	4.0	142	127	add an option to specify the length of the whiskers in percentile units from 0 to 25
	99.0	5.0	109	128	add an option to center the labels within each block
	119.5	7.0	86	129	add a WEIGHT statement so that weighted quantiles can be used in generating box plots
<i>PROC LIFEREG</i>	137.5	15.0	71	130	add variable selection capability
<i>PROC LIFETEST</i>	108.5	6.0	98	132	perform multiple comparisons for tests of homogeneity of the survival curves
	124.5	9.0	82	131	add additional tests of homogeneity of the survival curves such as Tarone-Ware, Peto-Peto Wilcoxon, Harrington-Fleming and Wellek tests
	124.5	9.0	82	135	perform person year/standardized mortality ratio analysis
	124.5	9.0	82	136	perform actuarial life-table/demographic analyses
	127.0	11.0	81	134	provide additional graphics statements such as AXIS and LEGEND
	131.0	12.0	78	133	produce cumulative incidence tables and plots
<i>PROC PHREG</i>	133.0	13.0	75	137	add the ability to perform frailty analysis/fit random effects models
	165.5	22.0	50	138	add a GROUPNAMES= option to add/delete a group of covariates simultaneously for use with variable selection techniques
<i>PROC REG</i>	43.0	2.0	207	139	provide a test for lack of fit
	50.0	3.0	195	140	add a CLASS statement



**PART VI
SAS/STAT
Software**
(cont.)

***PROC
SURVEYMEANS***

	Overall Rank	Part Rank	Number of Votes	Item Number	
	134.5	14.0	73	144	add options for Jackknife and balanced repeated replication (BRR) variance estimation methods
	148.0	17.0	61	143	add a CONTRAST statement for comparing means, totals and percentages across levels of domain variables
	150.5	18.5	60	145	provide an option that treats respondents as a subpopulation in the presence of item nonresponse (same as the default results in SUDAAN)
	155.5	20.0	57	141	compute ratio estimates for subpopulations or domains
	160.0	21.0	55	142	add percentile estimation
	180.5	23.5	38	147	add an option to specify which subpopulations to analyze from the DOMAIN statement, rather than getting all the domain levels output
	186.5	25.0	34	146	provide double ratio estimation
<i>PROC SURVEYREG</i>	143.0	16.0	67	149	add options for Jackknife and balanced repeated replication (BRR) variance estimation methods
	150.5	18.5	60	150	provide an option that treats respondents as a subpopulation in the presence of item nonresponse (same as the default results in SUDAAN)
	180.5	23.5	38	148	add a DOMAIN statement

**PART VII
SAS/ETS Software**

***Time Series
Forecasting System***

	137.5	1.0	71	151	add the DW statistic to theStatistics of Fit list
	145.0	2.0	63	152	add a tool to automatically fill in missing values or observations
	152.5	3.0	59	161	add functionality to export graphics output as BMP, JPEG and other image files

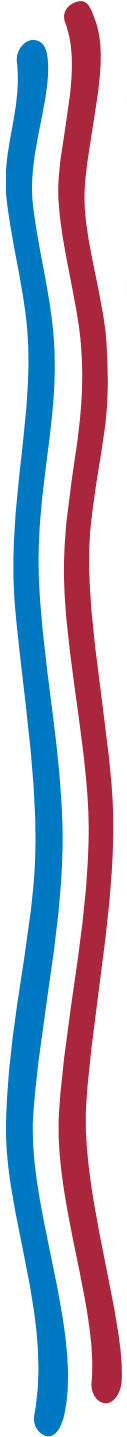
PART VII SAS/ETS Software

(cont.)

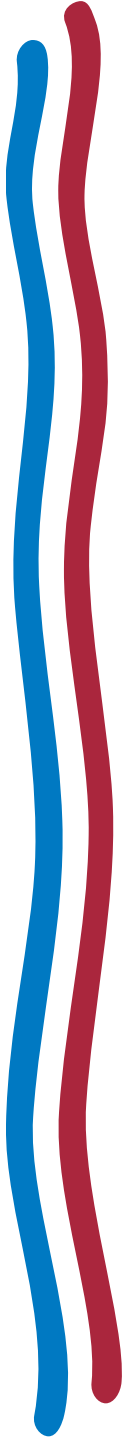
Time Series Forecasting System

(cont.)

	Overall Rank	Part Rank	Number of Votes	Item Number	
	164.0	4.0	51	155	create cross-correlation plots to improve identification of transfer function models
	171.0	7.5	46	154	add option to specify trend model for Dickey-Fuller tests
	178.0	12.0	40	158	attempt estimation with the CLS or ULS method whenever maximum likelihood estimation fails for ARIMA models
	184.0	16.0	35	157	provide a means to interrupt the automatic model-fitting process
	200.0	29.0	28	156	provide an option for restricting the range of possible forecast values for variables with a known maximum or minimum value using series transformation heuristics
	200.0	29.0	28	159	support customization of diagnostic and forecasting model plots
	205.0	33.5	26	153	add option to use multi-step forecasts in the Evaluation Range
	205.0	33.5	26	160	support top-down or bottom-up cross-classification and aggregation forecasting
<i>PROC ARIMA</i>	165.5	5.0	50	164	print and output to the OUTEST= data set statistics of fit such as R-square, adjusted R-square, MAPE, MPE, MAE, and the Theil statistics
	182.0	14.0	37	167	support an ID statement to copy specified variables from the input data set to the output data set
	186.5	18.0	34	165	support RESTRICT and BOUNDS statements to impose restrictions and inequality constraints on the model parameters
	193.5	23.0	32	162	support holdout samples and rolling simulation capability
	196.0	25.0	31	163	allow values larger than 12 for the DLAG= specification of the STATIONARITY=(ADF) option



	Overall Rank	Part Rank	Number of Votes	Item Number	
PART VII SAS/ETS Software <i>(cont.)</i>					
<i>PROC ARIMA</i> <i>(cont.)</i>	202.0	31.0	27	166	support an INEST= data set on the ESTIMATE statement to read in parameter estimates
<i>PROC AUTOREG</i>	175.5	10.5	42	168	compute standardized parameter estimates
	175.5	10.5	42	170	compute additional statistics of fit such as mean absolute percent error (MAPE), mean absolute deviation (MAD) and the corrected Akaike's information criterion (AICC)
	186.5	18.0	34	169	support additional GARCH model types including Power GARCH, Asymetric GARCH and Threshold GARCH
<i>PROC EXPAND</i>	183.0	15.0	36	171	permit METHOD=NONE to be used to replace gaps in the time series with missing values
<i>PROC MDC</i>	208.0	36.0	25	174	support discrete choice models for panel data
	210.0	38.0	24	172	add an option to compute a test of the assumption of independence of irrelevant alternatives (IIA)
	212.5	40.0	22	176	add an option to compute marginal effects and elasticities
	215.5	42.5	18	173	add functionality to estimate alternative-specific intercept and regressor coefficients
	218.5	45.5	17	175	support character CHOICE= and ID variables
<i>PROC MODEL</i>	197.5	26.5	29	178	output to a data set the final derivatives evaluated at each observation
	210.0	38.0	24	179	support BY-group processing with the PARMSDATA= and ESTDATA= data sets so that different starting values can be specified for each BY group
	214.0	41.0	21	177	support a %GAMMA macro for fitting Gamma distributed lag models



	Overall Rank	Part Rank	Number of Votes	Item Number	
PART VII					
SAS/ETS Software					
<i>(cont.)</i>					
<i>PROC QLIM</i>	190.0	20.5	33	183	support Tobit analysis with quantile regression models
	193.5	23.0	32	180	support panel data fixed and random effects for qualitative and limited dependent variable models
	200.0	29.0	28	181	support stochastic and unobserved threshold models
	224.5	51.0	14	182	support friction models
<i>PROC SPECTRA</i>	210.0	38.0	24	184	print the p-value associated with Fisher's Kappa statistic computed by the WHITETEST option
<i>PROC STATESPACE</i>	222.5	49.5	15	185	support embedded missing values
<i>PROC SYSLIN</i>	173.5	9.0	43	188	provide robust regression methods for systems of linear equations
	179.0	13.0	39	186	compute statistics of fit based on the log-likelihood function such as AIC
	205.0	33.5	26	187	provide test of diagonal covariance matrix to compare SUR and OLS models
<i>PROC TSCSREG</i>	168.5	6.0	48	192	provide tests for heteroscedasticity
	171.0	7.5	46	189	provide tests for autocorrelation
	186.5	18.0	34	191	add an option which outputs the fixed effects parameter estimates to the OUTEST= data set
	190.0	20.5	33	194	provide statistics of fit including -2LL, AIC and SBC
	193.5	23.0	32	190	provide instrumental variables estimation methods for panel data models
	197.5	26.5	29	193	support analysis of weighted panel data via a WEIGHT statement
	205.0	33.5	26	195	provide unit root tests for panel data



**PART VII
SAS/ETS Software**

(cont.)

	Overall Rank	Part Rank	Number of Votes	Item Number	
<i>PROC VARMAX</i>	215.5	42.5	18	197	provide standard errors for the exogenous variable impulse response function output
	218.5	45.5	17	196	add conditional variance forecast to OUTPUT OUT= data set
	218.5	45.5	17	199	support Hylleberg, Engle, Granger, and Yoo (HEGY) and Augmented Granger-Engle cointegration tests
	218.5	45.5	17	200	compute Theil statistics to assess forecasting performance
	221.0	48.0	16	198	support inequality constraints on the parameter estimates via a BOUNDS statement
<i>PROC X12</i>	222.5	49.5	15	201	support the FORCE= option on the PROC X11 statement (as described in the Census Bureau's specifications)

**PART VIII
SAS/QC Software**

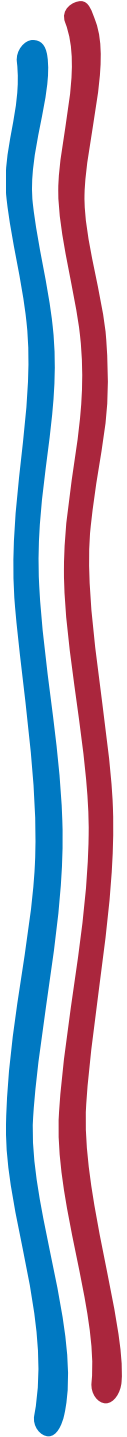
<i>PROC CAPABILITY</i>	146.0	1.0	62	202	allow multiple distributions from the same family to be plotted on one histogram
	168.5	2.0	48	203	provide overlaid and comparative versions of all graphical displays
<i>PROC RELIABILITY</i>	190.0	3.0	33	205	add an OUTPUT statement
	205.0	4.0	26	204	add the ability to place a straight reference line on the MCFPLOT

**PART IX
SAS/INSIGHT
Software**

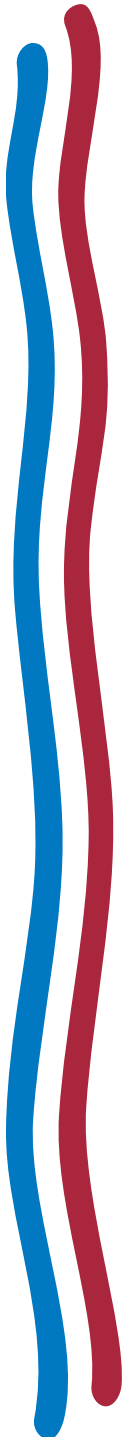
	237.0	1.0	1	206	provide an option that will print all graphs/tables from a group on one page
--	-------	-----	---	-----	------------------------------------------------------------------------------

**PART X
SAS/LAB**

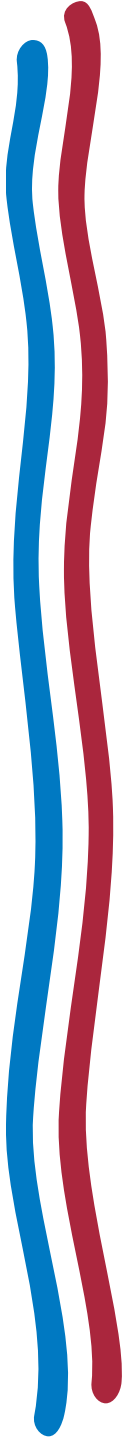
	167.0	1.0	49	207	add nonparametric statistics to SAS/LAB software
--	-------	-----	----	-----	--------------------------------------------------



	Overall Rank	Part Rank	Number of Votes	Item Number	
PART XI Data File Management					
<i>Import/Export Wizard</i>	33.0	1.0	241	209	add an option for specifying that all fields are numeric or character
	52.0	2.0	190	208	add an option that would force all character variables' values to be quoted
PART XII SAS/ACCESS Software					
<i>General</i>	68.5	1.0	167	210	allow labels placed on DBMS columns to appear in PROC CONTENTS output
<i>Interface to ORACLE</i>	104.0	2.0	103	211	create an option that would return missing values sorted by the DBMS in the same sort order as missing values sorted in SAS
<i>Interface to R/3</i>	226.5	3.0	12	212	incorporate Extended Precision package which SAS EMEA uses into SAS/ACCESS Interface to R/3
PART XIII Scalable Performance Data Server					
	224.5	1.0	14	215	add a way to temporarily suspend allowing new connection to all domains or to a specific domain, so the SPDS admin can guarantee a clean backup without any table locking problems
	226.5	2.0	12	216	add stand alone WNT client install that would create the needed SPDS directory, and update the config.sas for the user
	228.5	3.0	8	213	add the ability in SPDS to include catalog entries in _ALL_ lists and deletes
	231.5	4.0	6	214	add the ability to update SHOWLIBNAME DUMP command to include tables and acls



	Overall Rank	Part Rank	Number of Votes	Item Number	
PART XIV SAS/CONNECT Software					
	108.5	1.0	98	217	enable SSH support for SAS/CONNECT
	139.5	2.0	70	218	add an option to MP CONNECT to allow a timeout value to be set
PART XV SAS/IntrNet Software					
<i>Application Dispatcher</i>	105.5	1.0	102	220	provide a secure and effective way to pass authentication credentials so that they are available for each request, especially for connecting or reconnecting to a DBMS or SAS/SHARE server
	128.0	2.0	80	221	provide a monitoring tool that can be run by the administrator in determined intervals to query the Application Server for its current status and display that status
	136.0	3.0	72	222	provide an option for the Application Load Manager to display a list of requests that are awaiting execution
	163.0	4.0	52	223	provide support for INPUT TYPE=FILE tag in HTML forms to facilitate uploading end-user files for processing by the Application Dispatcher
	171.0	5.0	46	224	provide the ability to save LIBNAME definitions with user-specific parameters for use across requests within a session
	177.0	6.0	41	219	provide the ability to specify the current working directory for the Load Manager



**PART XVI
SAS IT Charge
Management**

Overall Rank	Part Rank	Number of Votes	Item Number	
228.5	1.0	8	231	provide security feature to prevent accidental change of administrative settings
230.0	2.0	7	228	allow management of multiple PDBs for a single site
231.5	3.0	6	226	change default options from OPTIONS SOURCE to OPTIONS NOSOURCE
233.0	4.0	4	230	add notes to accounting and invoice periods section in the user's guide
235.0	6.0	2	225	remove text "unused, available to assign" from the site selection screen
235.0	6.0	2	227	add a user interface to allow customers to manage proration; e.g. change the proration rate and create related formats
235.0	6.0	2	229	add a user interface for managing recurring credit/debit

**PART XVII
SAS System Viewer
for PCs**

48.5	1.0	198	232	add an option to allow the SAS System Viewer to wrap words in a column
62.0	2.0	170	233	allow the SAS System Viewer to format SAS data set variables with user-defined formats in format catalogs

**PART XVIII
SAS System for
Mainframes**

<i>SAS System under OS/390</i>	132.0	1.0	76	234	provide the ability in PROC SOURCE to read and write records greater than 80 bytes
--------------------------------	-------	-----	----	-----	------------------------------------------------------------------------------------



**PART XIX
SAS System
for PCs**

Overall Rank Part Rank Number of Votes Item Number

27.0 1.0 263 235

allow use of true Windows environment variables such as %username% in pathnames specified in SAS configuration files

**PART XX
SAS System
for UNIX**

78.0 1.0 145 237

provide a SAS command to direct output from a UNIX command to the SAS log; for example, to direct output from the ls command to the SAS log: xlog 'ls -al filename';

105.5 2.0 102 236

port SAS to Linux on the mainframe

Distribution of Respondent Job Functions:

- 47%Applications Programmer
- 39%Statistician
- 24%Systems Analyst
- 19%Manager/Staff End User Department
- 14%SAS Software Consultant
- 12%SAS Software Representative
- 9%Systems Manager
- 5%Manager/Staff Information Center
- 5%SAS Software Training Coordinator

