# 1998 SASware Ballot® Results

# I SAS Language

# General

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Overall Rank	Part Rank	Number of Votes	Item Number		Overall Rank	Part Rank	Number of Votes	Item Number	
4.0	1.0	676	23	provide the ability to create stand-alone executable programs from base SAS software	199.5	51.5	128	13	provide a NOWARN system option to prevent any WARNING messages from being written to the SAS LOG
9.5	3.5	552	22	allow options on the TITLE and FOOTNOTE statements to specify bold or underlined text	266.0	66.5	93	19	enhance the behavior of the ERRORABEND system option to pop up a window request- ing whether an interactive SAS session should be
11.0	5.0	541	ı	provide the ability to display the current date and time in the SAS LOG and OUTPUT (not just the date and time the session began) for an inter- active SAS session	311.0	70.0	75	18	terminated add a system option to glo- bally set the default rounding unit to be used in conditional evaluation
18.0	8.0	482	2	provide a system option to control the number of decimal	328.0	72.0	67	17	provide an LRECL=system option
21.0	10.0	453	11	allow complete control of placement and format of date	356.5	75.5	59	16	provide the ability to retrieve values by an index in descending order
27.0	12.0	418	6	and page number in SAS output allow the use of meta- characters or wildcards when	378.5	80.0	54	7	provide a system option to specify what currency symbol to use, with the default being the dollar sign
				referencing SAS data set names, variable names, or character strings	438.0	85.0	39	8	allow the ERRORS= system option to control the number of informational messages
29.0	14.0	41	512	allow separate justification for TITLE and FOOTNOTE statements	F07.0	00.0	200	4.4	that are printed from the MSGLEVEL=I system option
55.0	20.0	340	9	add an option to display a running total of CPU time, memory usage, and space utilization after each step	507.0	92.0	26	14	provide the ability to control the number of notes gener- ated similar to the ERRORS=option
88.0	25.0	266	20	provide a system option	DATA	A Step	)		
				similar to the MISSING option to designate a character to print for missing character variable values	9.5	3.5	552	27	display the "nesting level" for DO-END blocks in the SAS LOG
90.0	26.0	262	3	provide a system option to reset all options back to the default setting at initialization of the SAS System	12.0	6.0	532	29	provide support for the LIKE, CONTAINS, and BETWEEN- AND operators for the IF statement
95.0	27.0	25	110	specify the name(s) of the variable(s) formatted with the BEST. format in the note issued when any assigned format is overridden	26.0	11.0	420	24	provide a note in the SAS LOG that displays the name, number of observations, and number of variables for a data set on a SET, MERGE, or MODIFY statement
96.5	28.0	248	15	provide an option to store numbers using integer representation rather than floating point	35.0	15.0	390	26	provide a WARNING to indi- cate that a MERGE statement has been used without a BY statement
111.5	30.0	226	21	provide a FORMAT/NOFOR- MAT system option to indicate whether to use associated formats in the DATA step or	48.5	17.0	354	25	allow the IN operator to accept expressions and variable names
117.0	32.0	219	5	procedures provide the ability to specify different line size values for	52.0	19.0	348	30	add the name of the array to the message: ARRAY SUB- SCRIPT OUT OF RANGE
118.0	33.0	216	4	the log and listing files provide a functionality similar to AUTOEXEC that allows a set of code to be executed at	83.5	24.0	278	31	add a MISSING=option to the INFILE statement to designate alternate characters to be read as missing values
				termination of the SAS session	107.0	29.0	230	40	provide an option for the MERGE statement to perform a full join

Overall Rank	Part Rank	Number of Votes	Item Number		Overall Rank	Part Rank	Number of Votes	Item Number	
114.5	31.0	222	38	compute the value for the NOBS=option on the SET statement after subsetting using the WHERE=data set	543.5	100.0	17	37	increase the number of lines available to the output pointer using the N=option on the FILE statement
129.0	35.	0204	50	option provide a CENTER option on the PUT statement to auto- matically center literal text	572.5	102.0	10	34	allow index retrieval on a MODIFY with the BY state- ment without specifying a transaction data set
149.5	41.0	177	46	allow the label created with the LABEL=data set option to be carried over to a newly cre-	Func	tions	;		
450.5	40.0	407	40	ated data set	Overall Rank	Part Rank	Number of Votes	Item Number	
158.5	43.0	167	42	allow the use of the special subscript asterisk (*) to refer to all elements in temporary arrays and multidimensional	17.0	7.0	493	51	implement a MEDIAN function to compute the median across a group of variables
183.0	47.0	143	41	provide a system option to control whether the VARI-	39.0	16.0	376	53	add an option to the ROUND function to round down, up, or truncate values
				ABLE IS UNINITIALIZED message is a NOTE, a WARNING, or an ERROR and set the step condition code	61.0	22.0	310	55	add a function to uppercase the first letter of each word in a string
207.0	53.0	123	28	appropriately provide a method for the OR operator to differentiate	65.0	23.0	300	54	allow variable lists like X=SUM(OF A:) to sum all variables beginning with an 'A'
007.5	50 F	445	20	between both conditions being true and one of the conditions being true	124.0	34.0	208	58	add a function to return the name of the variable that con- tains the minimum or maxi- mum value for a group of
227.5	56.5	115	32	allow the KEY= option to take advantage of a DBMS index	100 5	E1 E	120	52	variables
234.0	59.0	113	45	provide the ability to save the source code as part of the view when creating DATA step views	199.5	51.5	128	52	add functions for scientific conversions, for example: atmospheres to inches of mercury, metric to English
238.5	61.0	111	33	add a way for a user to set a warning condition during execution	236.0	60.0	112	56	provide a function to convert a ZIP code to a county FIPS code
252.5	63.0	101	47	allow the use of data set lists in the DATA, SET, MERGE, UPDATE, and OUTPUT statements	364.0	77.0	57	57	add functions to generate a group of incremental sums and means for the elements of an array
266.0	66.5	93	43	provide an argument to the ABORT statement that termi- nates the current DATA step	366.5 78.0 56 59			59	create a function to add single quotes to a data value
				and ignores any pending DATA or PROC steps when	Infor	mats	and Fo	ormats	3
320.5	71.0	70	40	running interactively	Overall Rank	Part Rank	Number of Votes	Item Number	
320.5	71.0	70	49	provide an option to require programmers to explicitly define all variables used in the DATA step	50.0	18.0	349	60	provide a date format to display the month and year in the form: January 1994
341.0	73.0	64	36	add a numeric option to the LEAVE statement to exit two or more nested loops at once	137.0	37.0	194	65	provide a SAS format and informat similar to DATE with the pattern DD-MMM-YY
466.5	88.0	34	35	add a numeric option to the CONTINUE statement to	146.0		184	61	provide a format to write leading zeros as well as commas
493.0	91.0	29	44	branch to the return point of any nested loop issue a note when only one data set is specified in a	211.0	54.5	122	78	provide a format to write time in military form with leading zeros for times before 10:00 am
				MERGE statement to indicate that two or more data sets should be used	243.5	62.0	107	64	create a duration format to display a datetime value as days: hr:mm:ss
529.5		20	48	provide an option to specify that an external file is in a non-native character set	269.0	68.0	91	69	provide a significant digits for- mat to display the significant digits, including zero
533.5	98.0	19	39	provide a data set option to handle duplicates on the mas- ter and transaction data sets when using the MODIFY statement with the KEY=option	307.5	69.0	76	68	provide an informat like \$CHARZB to be used on ascii systems to read ebcdic data, convert it to the native format and convert any byte contain- ing a binary zero to a blank

Overall Rank	Part Rank	Number of Votes	Item Number		Overall Rank	Part Rank	Number of Votes	Item Number	
351.0	74.0	61	70	add an informat to handle Julian dates in the form of cyyddd where the c is the	56.5	21.	033	482	provide a syntax checking utility
				century indicator	133.0		197	85	add a source code formatter
371.5	79.0	55	62	provide an informat that considers time or datetime values with a minute value greater than 59 as invalid	141.0	38.0	188	89	provide the ability to click on a statement in the PROGRAM EDITOR and receive context- sensitive help when pressing F1
409.0	81.0	44	66	provide a format, similar to BEST., that only displays non- zero decimal values and also aligns all values according to both the explicit and implicit	147.0		181	98	enhance the FIND command so it highlights the found string instead of positioning the cursor on the first character
414.5	82.5	43	71	decimal points allow the COMMA informat to also remove single quotes	154.0	42.	017	197	include a list of recently used files under the FILE pull-down menu
414.5	82.5	43	73	from the input data add an informat and a format to handle the conversion of	167.5	44.0	157	105	provide the ability to choose whether to view data using FSVIEW, FSEDIT, or
				amounts to Euro-dollar amounts	175.0	45.0	148	104	VIEWTABLE provide a confirmation window to verify that the entry name a
425.0		41	77	add a YYMMxw informat					program is being saved to is
451.5	86.0	37	63	add an informat and format to read and write dates in the form: Thu Mar 21 13:59:34 CST 1996	186.0	48.5	141	91	the desired entry name provide the ability to SAVE or SAVE AS from a list of the last 5 files included into the
457.0	87.0	36	72	provide an informat similar to S370FZDTw.d to process native ASCII numeric data with a trailing sign	186.0	48.5	141	95	PROGRAM EDITOR provide a command to insert templates of selected SAS procedure steps into the
511.0	93.5	25	74	provide a format to display a numeric value in the form of Day Hour Minute	195.0	50.0	130	83	PROGRAM EDITOR add an FMTLIB window to
515.0	95.0	24	76	provide an informat similar to the SMFSTAMP to read date- time values where the date portion is a packed decimal					display the format values for a given entry in a FORMAT catalog, similar to the information given by the FMTLIB option in PROC FORMAT
537.5	99.0	18	75	julian date with a 4 digit year (yyyydddF) provide an informat and format like the VMSZNw for all systems to be able to read or write zoned decimal values that are produced by other software on ascii systems	211.0	54.5	122	103	provide the ability to change the colors of designated lines of code in the PROGRAM EDITOR and save these color changes with the program file to make it easier to find fre- quently edited sections of code
583.0	104.0	5	67	add a \$PHEXw format	227.5	56.5	115	102	provide the ability to choose colors or bold text for key
		tateme							words like DATA, SET, RUN when the source lines are dis- played in the LOG
Overall Rank	Part Rank	Number of Votes	Item Number		231.0	58.0	114	87	allow the selection of more
8.0	2.0	553	80	add a note indicating the num- ber of observations that meet the WHERE condition					than one program to include into the PROGRAM EDITOR from the pop-up file selection window
28.0	13.0	417	79	provide the ability to display the WHERE clause in printed output	260.0	64.5	97	90	add the capability to the PROGRAM EDITOR to exclude one line or a block of
177.0	46.0	147	81	allow a WHERE statement to be merged in a DATA step or PROC SQL view of a SAS data set at execution time	260.0	64.5	97	96	lines (similar to the MVS ISPF Editor line command X) modify the behavior of the PROGRAM EDITOR such that
Text (DMS			SAS/A	AF Software)					when an arrow key is depressed for navigation, any marked text is unmarked
Overall	Part	Number	Item	- · · · · · · · · · · · · · · · · · · ·	356.5	75.5	59	88	allow different fonts for different windows
Rank 19.0	Rank 9.0	of Votes 481	Number 86	add an option to reset the SAS session by deleting tem-	473.0	89.0	33	100	provide an option to reset the line numbers in the LOG window to a specified value
				porary data sets, updating the date and time, resetting page and line numbers, cancelling unmatched quotes, and correcting missing %MEND errors	488.5	90.0	30	101	allow "SAVE AS" and "FILE OPEN" to work with filenames directly for data sets and graphics

Ove Ra		Part Rank	Number of Votes	Item Number	
511	.0	93.5	25	84	add an option to choose the placement of a page eject at the beginning or the end of the output
523	3.0	96.0	22	94	allow the title bar to reflect the catalog entry name if the text has been saved to an object rather than a file
554	.0	101.0	14	99	prompt only to quit SAS, not for each window that contains unsaved information
581	.0	103.0	6	93	provide the ability to modify the Ctrl-S and Ctrl-O keys
585	5.5	105.0	4	92	provide a command to invoke a Windows help file, similar to the SCL WINHELP() function

# **PART II Base SAS Procedures**

#### **All Procedures**

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Overall Rank	Part Rank	Number of Votes	Item Number	
36.0	8.0	385	114	provide the ability to specify more than one data set as input to all procedures
37.0	9.0	384	112	provide an option to allow the page number to be reset when a BY value changes
38.0	10.0	382	109	provide the ability to use -L, -C, and -R with formats on a FORMAT statement to left align, center, and right align
41.5	11.0	374	115	implement wizards for more difficult procedures such as TABULATE
52.0	15.0	348	108	provide the ability to order categorical variables by a user-defined ordering scheme
56.5	16.0	334	111	provide the SPLIT= functionality in all procedures that allow labeling
67.0	22.0	297	107	provide the ability to display all format ranges for a cate- gorical variable, whether or not the values in the range actually occur in the input data set
77.5	26.0	282	106	provide the ability to compute weighted and unweighted statistics in the same step for all applicable procedures
138.5	39.0	190	110	provide an option to produce a header line when the input data set contains no obser- vations
153.0	43.0	172	116	provide an option to seperate columns in the OUTPUT window with tabs instead of spaces
186.0	50.0	141	113	provide the ability to access BY-groups that are ordered by formatted values

### **New Procedures**

Overall Rank		Number of Votes	Item Number	
43.0	12.0	372		provide a procedure to analyze multiple-response data

### **PROC CHART**

Overall Rank		Number of Votes	Item Number	
64.0	21.0	302	118	add an option to allow uniform axis scaling across BY groups

### **PROC CIMPORT**

Overall Rank	Part Rank	Number of Votes	Item Number	
158.5	44.0	167		provide the ability to select specific data sets or catalogs from a transport file when importing

### PROC COMPARE

Overall Rank	Part Rank	Number of Votes	Item Number	
332.5	64.5	66	122	provide the ability to list only the base and comparison values without the difference and percent difference
446.0	76.0	38	120	provide the ability to print the variable labels either in place of, or in addition to, the variable names when using the TRANSPOSE option
473.0	79.0	33	121	provide the ability to print the variables in the order they are specified in the VAR statement when using the TRANS-POSE option

#### **PROC CONTENTS**

Overall Rank	Part Rank	Number of Votes	Item Number	
58.0	17.0	328	124	provide the ability to suppress the alphabetical listing of vari- ables when requesting the POSITION option
Overall Rank	Part Rank	Number of Votes	Item Number	

# PROC COPY

Overall Rank	Part Rank	Number of Votes	Item Number	
105.0	33.0	234	125	provide the ability to copy SAS data sets without chang- ing the Created and Last Modified dates
188.5	51.0	139	127	provide the ability to copy an index rather than re-create it
446.0	76.0	38	126	provide an option to only copy data sets with observations to the OUT=data library

#### PROC CORR

Overall Rank	Part Rank	Number of Votes	Item Number	
351.0	66.0	61	128	allow pairwise deletion of missing values in VAR or WITH variables when a PARTIAL statement is used

PRO	С СР	ORT			PRO	C PL	ОТ			
Overall Rank	Part Rank	Number of Votes	Item Number		Overall Rank	Part Rank	Number of Votes	Item Number		
151.0	42.0	176	131	provide a way to display contents information for a transport file	69.0	23.0	294	144	provide a UNIFORM option to uniformly scale axes across BY-groups	
269.0	56.5	91	129	provide the ability to maintain data set compression when a data set is transported	72.5	25.0	285	145	provide the ability to connect points on a plot	
Overall Rank	Part Rank	Number of Votes	Item Number	·	PRO	PROC PRINT				
378.5	68.0	54	132	provide a way to maintain read passwords on data sets	Overall Rank	Part Rank	Number of Votes	Item Number		
470 E	01 E	22	120	when transporting	14.0	3.0	516	146	provide explicit control of the number of observations that	
479.5	81.5	32	130	provide the ability to transport KEYS entries between differ- ent operating systems	32.0	6.0	396	147	can be printed on a page provide an option to force a	
PRO	C DA	TASET	S						page eject if all observations in the current BY group will not fit on the remainder of the	
Overall Rank	Part Rank	Number of Votes	Item Number		44.0	13.0	366	150	page allow the OBS column header	
311.0	62.0	75	134	allow the use of the WHERE	44.0	13.0	300	150	and the N statistic to be labeled	
470.0	70.0	00	400	statement with a SELECT statement	45.0	14.0	358	149	provide the ability to explicitly control where output will wrap	
473.0	79.0	33	133	provide the ability to age all data sets on the AGE state- ment even when the first data set does not exist	59.0	18.0	321	155	provide an option to allow every nth observation to be printed	
DDO	<b>↑</b> E∧	RMAT			63.0	20.0	305	152	allow the label of the BY variable to be printed on the	
Overall Rank	Part Rank	Number of Votes	Item Number						subtotal line when using the BY and SUM or BY and SUMBY statements	
62.0	19.0	307	135	provide the ability to prevent an existing format from being overwritten	89.0	28.0	265	148	provide the ability to control the number of blank lines to print between observations and between BY groups	
298.5	61.0	80	136	change the NOTE issued when trying to create a format with the same name as a SAS supplied format to an ERROR	104.0	32.0	235	153	provide an option to choose whether or not to print the grand total when using SUM or SUMBY	
PRO	C FR	EQ			121.5	36.0	210	154	provide an option to print headers only once at the top	
Overall Rank	Part Rank	Number of Votes	Item Number		142.0	40.0	187	151	of the first page provide an option to suppress	
30.0	5.04	11	137	provide the ability to output information from more than one table request to a single					printing any variables that have only missing values	
109.0	24.0	228	139	data set add the ability to format the	PRO	C PR	INTTO			
				cell statistics	Overall Rank	Part Rank	Number of Votes	Item Number		
113.0	35.0	224	138	add an option to output the number of unique values for a variable in the TABLES statement	100.0	30.5	244	156	provide an option to send out- put to both the specified file or printer and the default output	
127.5	37.0	206	142	provide an exact confidence interval for the relative risk	217.5	52.0	120	157	location simultaneously provide an option to remove	
180.5	48.0	145	140	provide Monte Carlo methods for tables too large for exact methods					the carriage control characters on the first page of the output to prevent printing a blank page	
249.0	54.0	103	141	provide the variance estimator due to Robins, Breslow, and Greenland (1986) for the Mantel-Haenszel odds ratio estimator	438.0	74.0	39	158	add a FORM=option to provide forms support for rerouted output in both batch and interactive mode	
PRO	СМЕ	ANS/P	ROC S	SUMMARY	PRO	C RA	NK			
Overall Rank	Part Rank	Number of Votes	Item Number		Overall Rank	Part Rank	Number of Votes	Item Number		
71.0	24.0	288	143	provide the ability to compute geometric means and variances	332.5	64.5	66	159	add a ROUND option to specify the number of decimal places to consider when ranking values	

Overall Rank	Part Rank	Number of Votes	Item Number		PRO	c so	RT		
371.5	67.0	55	160	provide an option to allow tied	Overall Rank	Part Rank	Number of Votes	Item Number	
				values to be assigned unique ranks and to be placed into different groups when using	6.0	1.06	10	181	provide the ability to sort multiple data sets in one step
				the GROUPS=option	7.0	2.0	604	178	allow the KEEP and DROP statements
PRO Overall	C RE	PORT Number	Item		20.0	4.0	463	180	add an option to output deleted observations to a data set
Rank	Rank	of Votes	Number		91.0	29.0	260	179	provide the ability to specify a
134.5	38.0	196	161	provide an option to specify a "Continued" message between pages of a report					function in the BÝ statement and sort by its result
143.0	41.0	186	162	provide the ability to suppress summary lines when there is	PRO	C SQ	L		
				only one observation for a group	Overall Rank	Part Rank	Number of Votes	Item Number	
184.0	49.0	142	164	provide the ability to conditionally insert page breaks	163.5	45.0	160	183	allow the automatic conversion of variables from charac-
256.5	55.0	98	166	provide the ability to group by computed columns					ter to numeric when performing arithmetic expressions in a
269.0	56.5	91	168	provide the ability to stack variables one above the other within a single column	271.5	58.0	90	182	implement an IN operator construct in which the column
281.5	59.0	87	172	provide the ability to display cumulative frequencies, sums and percentages					value on the left of the opera- tor can contain more than one column to be compared to multiple columns in the sub-
394.5	70.0	48	176	provide the ability to summa- rize information across all BY groups					query on the right of the operator
414.5	71.0	43	167	provide the ability to add multiple variables to a report in the REPORT window and give them all the same definition attributes without having to	295.0	60.0	81	188	allow a conversion method similar to the ACCESS products in SQL Passthrough to rename DBMS column names to SAS variable names
425.0	72.5	41	177	define each one individually enhance the REPORT window	387.0	69.0	50	185	allow a WHERE statement to be merged into an ACCESS
420.0	72.0	71	.,,	to allow the scrollbar to be used to scroll from one page	425.0	72.5	41	184	or DATA Step view to filter the amount of data processed provide an option to suppress
446.0	76.0	38	163	to the next add the ability to dynamically align text from LINE state- ments with report columns					the warning message issued when duplicate variables are found while creating a SAS data set using the CREATE
479.5	81.5	32	171	provide the ability to wrap	470.0	<b>70.0</b>		400	TABLE statement
				groups of observations, rather than one observation at a time, similar to the way PROC	473.0	79.0	33	186	implement a dictionary table containing graphics option settings
497.0	83.0	28	170	PRINT wraps provide a NOPRINT option on	515.0	84.0	24	187	allow all concatenated directories allocated to a FILE-
101.0	00.0	20		the PROC statement to sup- press any printed output from being generated when the OUT=option is also specified					NAME fileref to be retrieved from the dictionary table DICTIONARY.EXTFILE
519.5	85.0	23	175	modify the REPORT window to use the SQL Query Window WHERE builder			BULAT		
554.0	86.0	14	165	provide the ability to select the panel(s) that a LINE statement	Overall Rank 100.0	Part Rank	Number of Votes	Item Number 189	provide an option to suppress
572.5	87 N	10	169	is written under provide the ability to add a	100.0	.0 30.5 244		109	the ALL line if the group being summed only has one level
372.3	07.0	10	103	description when saving the report template in batch	PRO	C TR	ANSPO	SF	Sammed only has one level
576.5	88.0	9	174	provide the ability to return to the same page rather than the first page after making a	Overall Rank	Part Rank	Number of Votes	Item Number	
				first page after making a change in the REPORT window		46.0	153	190	create a macro variable to
583.0	89.0	5	173	allow the ITEMHELP option in the DEFINE window to default to the column name					contain the number of COLn variables written to the output data set

PRO	C UN	IVARIA	TE		Overall Rank	Part Rank	Number of Votes	Item Number	
Overall Rank	Part Rank	Number of Votes	Item Number		195.0	28.0	130	207	provide the ability to save a
34.0	7.0	391	191	provide standard errors and confidence intervals for all of the computed statistics					graph in the GRAPH window into a given catalog without using the GRAPHICS EDITOR
170.0	47.0	152	193	add an EXTREMES=n option for specifying the number of largest and smallest values to output	227.5	33.0	115	208	add an option to allow procedures to replace GRSEG entries if an entry by that name already exists
247.	553.0	104	192	use all of the ID variables for labeling extreme observations	Now	Droc	edures		·
316.0	63.0	73	194	support SAS time formats on the analysis variable	Overall Rank	Part Rank	Number of Votes	Item Number	
PAR	T III	SAS	Мас	ro Facility	41.5	2.0	374	210	provide the ability to automatically overlay bars and plot lines
Overall Rank	Part Rank	Number of Votes	Item Number		225.0	32.0	116	213	add a graphics procedure comparable to PROC TIMEPLOT
13.0	1.05	29	195	add line numbers to MPRINT output, so line numbers are continuous in the SAS LOG	289.0	37.0	85	212	provide a procedure to produce "wind rose" or "radar" charts
23.0	2.0	440	196	provide the ability to delete macro variables	405.0	44.0	45	211	provide the ability to create ternary plots
47.0	3.0	355	197	provide the ability to retrieve the original source code for a stored compiled macro			atemen	-	
86.0	4.0	269	203	enhance the %PUT statement to allow text to be displayed in different colors in order to	(AXIS	Part Rank	Number of Votes	Item Number	BOL, etc.)
				generate messages that look like SAS-generated NOTE, WARNING, and ERROR messages	66.0	6.0	299	221	provide the ability to specify a 'break' symbol (double slashes or double lightning bolt) to
109.0	5.0	228	202	provide the ability to determine the autocall library from which a macro was invoked	75.0	7.0	283	217	signify an axis break provide superscripts and subscripts in fonts
241.0	6.0	110	201	provide a macro function to return the position of a word based on a delimited list	80.5	8.0	281	214	provide the ability to specify just axis end points or just an increment value, and let the procedure fill in the other
281.5	7.0	87	199	provide a macro function to remove a token from a string					elements
507.0	8.0	26	200	allow NO\$RESERVEDB1 to free the MPRINT file within the same SAS session it was created	98.0	12.0	247	215	provide options to produce horizontal axes on the top and bottom, and vertical axes on both the right and left sides of the graph
543.5	9.0	17	198	provide an option to detect macro triggers in CALL EXECUTE routines	119.0	16.0	211	220	provide the ability to specify uneven intervals between tickmarks
PAR	T IV	SAS	/GR <i>A</i>	APH Software	125.5	17.0	207	226	provide more patterns than just cross hatching, solid, empty, and leaning lines
	roced				130.0	19.0	202	219	provide the ability to order axis values based on the order the data are read in
Overall Rank	Part Rank	Number of Votes	Item Number		158.5	23.0	167	218	provide options to create and
48.5	3.0	354	204	provide an option to label reference lines					customize boxes of text on graphics output, including rounded corners, drop
92.0	10.0	254	209	provide the ability to close the GRAPH window without view- ing all the graphs generated	163.5	25.0	160	216	shadows, block effects, and stacks provide a GOPTIONS window
134.5	20.0	196	205	by submitted statements provide the ability to number graphics output and specify	165.5	26.0	159	222	provide a LEGEND statement option to allow reordering of legend entries
177.0	27.0	147	206	the starting page number provide the ability to use vari-	197.0	29.0	129	224	add true dotted lines to the list of dashed line styles
				able values as part of the NAME and DESCRIPTION of a graph when BY-processing is used	250.5	35.0	102	223	add options to control the widths of all bars and boxes in SYMBOL statements when using the STD and BOX interpolation methods

Overall Rank	Part Rank	Number of Votes	Item Number		Overall Rank	Part Rank	Number of Votes	Item Number	
364.0	41.0	57	225	add an option to the LEGEND statement to control the number of symbols that display for each legend value	136.0 332.5	21.0 40.0	195 66	239 240	implement a UNIFORM option provide the ability to change the label of the statistics on an HBAR graph
502.0	50.0	27	227	provide an option on the LEGEND statement to draw a box around each individual	Overall Rank	Part Rank	Number of Votes	Item Number	
Anno	otate	Facility	<i>'</i>	entry in the legend	414.5	46.0	43	238	add an option to the BLOCK statement to allow the width of the block to be determined by a variable's value
Overall Rank	Part Rank	Number of Votes	Item Number		451.5	48.0	37	241	provide notes in the LOG with recommended solutions when
109.0	14.0	228	228	provide a function to produce arrows					the bars are not wide enough for the statistics to print on top
318.5	39.0	71	229	provide the ability to return the actual (X,Y) coordinate from	PRO	C GC	ONTOL	JR	
				text that was positioned with relative move coordinates	Overall Rank	Part Rank	Number of Votes	Item Number	
DATA	A Ste	p Grapi	hics Ir	nterface	488.5	49.0	30	242	provide the ability to create an output data set that contains
Overall Rank	Part Rank	Number of Votes	Item Number						the coordinates for the lines that are drawn for the contour levels
549.0	55.0	16	230	provide the ability to place values on a GRSEG entry using the data coordinate	PRO	C GIN	//PORT		
				system that the annotate facility uses	Overall Rank	Part Rank	Number of Votes	Item Number	
Fonts	S				378.5	42.0	54	243	provide the ability to import PDF files
Overall Rank	Part Rank	Number of Votes	Item Number		PRO	C GM	IAP		
138.5	22.0	190	231	provide the ability to easily integrate user-supplied hard-	Overall	Part	Number	Item	
				ware and system fonts into the SAS system for use	Rank 394.5	<b>Rank</b> 43.0	of Votes 48	Number 245	provide the ability to create dot-density maps
_				across products	431.5	47.0	40	244	provide the ability to specify a pattern for an area when the
Grap Overall	nics Part	Editor	Item						ID value is not in the response data set
Rank 277.0	Rank 36.0	of Votes	Number 232	provide an option to change	526.0	53.0	21	247	provide an option to specify the line style for map unit areas
519.5	52.0	23	222	the background color of the graph provide the ability to edit a	543.5	54.0	17	246	provide WEMPTY and WOUTLINE options to enable
313.5	32.0	20	200	pre-existing paragraph as a paragraph instead of on a line-by-line basis					specification of line widths for boundary outlines
0		D	_	mic by mic basis	PRO	C GP	LOT		
Overall	Part	Number of Veter	Item		Overall Rank	Part Rank	Number of Votes	Item Number	
Rank 33.0	Rank 1.0	of Votes 392	Number 234	provide a "fit to page" printing option	60.0	5.0	314	248	provide an option to automati- cally label plot points on the graph with the corresponding (x,y) coordinate values
PRO	C GC	HART			85.0	9.0	272	249	provide an option to label X axes in groups, such as
Overall Rank	Part Rank	Number of Votes	Item Number		106.0	12.0	233	250	months within years
52.0	4.0	348	235	provide the ability to specify ranges for bar values, rather	106.0	13.0	233	250	increase the number of plot symbols available, including more filled symbols
93.5	11.0	253	236	than midpoints provide an option to place values and labels inside bars when doing vertical or hori-	127.5	18.0	206	255	add an option to automatically place the horizontal axis at zero on the vertical axis when there are positive and nega- tive y values
111.5	15.0	226	237	zontal bar charts provide the ability to have more than one variable charted on the same set of axes	161.5	24.0	163	252	provide the ability to label the points with a frequency value that represents the number of observations with the same x-y coordinates

Overall Rank	Part Rank	Number of Votes	Item Number	,	Overall Rank	Part Rank	Number of Votes	Item Number	
211.0	31.0	122	251	provide an option to draw confidence ellipses for the data and centroid	519.5	2.0	23	268	add the ability to 'brush' data points in a scatterplot
295.0	38.0	81	253	add a MISSING option to allow observations with a missing value for the depen-	PAR	T VI	I SAS	/ASS	SIST Software
				dent (Y) variable to be considered valid for determining the	Gene	eral			
				horizontal axis range on the plot	Overall Rank	Part Rank	Number of Votes	Item Number	
409.0	45.0	44	254	add an option to force axis ranges to include the entire line when the SPLINE interpolation method is used	116.0	1.0	221	269	provide an option to include the WHERE subset in the title of reports
DD 0		<b></b>	,	,	193.0	2.0	132	271	include user-defined formats in the selection list of formats
		EPLAY			217.5	3.0	120	279	provide the ability to reset the PAGENO=option
Overall Rank	Part Rank	Number of Votes	Item Numbei	•	274.5	5.0	89	275	provide the ability to specify
199.5	30.0	128	257	provide the ability to create a template containing a certain number of panels and have					options in the LIBNAME and FILENAME statements for local and remote execution
				GREPLAY calculate the co- ordinates for the panels automatically	281.5	6.0	87	270	provide the ability to define formats for variables in all reporting windows
234.0	34.0	113	256	provide the ability to specify TITLE and FOOTNOTE state-	295.0	8.0	81	273	provide one window for speci- fying all titles and footnotes
515.0	51.0	24	259	ments to be applied to replayed graphs provide the ability to distin-	325.5	9.0	68	278	make the RUN button on the toolbar behave as a local RUN
313.0	51.0	24	200	guish a group entry from an individual entry when using the REPLAY _ALL_ statement	360.5	10.0	58	272	use SQL in BY combinations of datasets so ordering is not required
580.0	56.0	7	258	provide an option in the fullscreen window to allow a list of the selected GRSEG	425.0	11.0	41	277	provide the ability to pass a WHERE condition to the Design Report/Report window
				entries to be stored in a SAS data set	507.0	12.0	26	276	allow specification of engine/host options for SAS/SHARE when assigning
PAR	TV	SAS	GIS :	Software	5540	40.0	4.4	074	a libref
Overall Rank	Part Rank	Number of Votes	Item Numbei	•	554.0	13.0	14	274	provide the ability to specify a KEYLABEL for something other than ALL in the sixth style table report
366.5	1.0	56	261	provide the ability to use alternate (non-US) postal codes in the geocoding facility	563.0	14.0	12	280	provide the necessary infor- mation to cut SMF records
446.0	2.0	8	260	provide the ability to digitize	Grap	hics			
457.0	3.0	36	265	raster data into vector data provide the ability to create dot-density maps	Overall Rank	Part Rank	Number of Votes	Item Number	
473.0	4.0	33	264	provide the ability to create surfaces as a GIS layer (isopleth mapping)	256.5	4.0	98	281	provide a way to set all possible options available to graphical procedures such as
493.0	5.0	29	263	provide the ability to perform					GPLOT and GCHART
				routing and minimum distance analysis				ng	
559.5	6.0	13	266	allow the thematic ranges to be predefined according to the theme variable's format	Overall Rank	Part Rank	Number of Votes	Item Number	
563.0	7.0	12	262	provide options to perform quality and buffering analysis	286.5	7.0	86	282	provide the ability to auto- matically deselect all variables in the Report Engine window to prevent having to deselect
PART VI SAS/SPECTRAVIEW Software									a large number of them one by one when only a few are desired

Overall Part Number Item Rank Rank of Votes Number

318.5 1.07

1

267 provide the ability to specify a data set on the PROC statement

PART VIII SAS/AF				Software	Overall Rank	Part Rank	Number of Votes	Item Number	
Overall Rank	Part Rank	Number of Votes	Item Number		347.5	24.5	62	289	provide corresponding catalog IMAGE entries for use with Image Icon and Image objects
46.0	1.0	357	338	provide the functionality to completely document FRAME applications					and SAS ICONs for use with the Icon object and SAS toolbar
121.5	2.5	210	284	provide a text editor object for FRAME	347.5	24.5	62	290	provide an option to display multiple messages in a dialog window instead of the mes-
121.5	2.5	210	297	provide the ability to copy data from a Data Table object into an Excel spreadsheet without					sage window for Data Form and Data Table objects
165.5	4.0	159	340	having to write any SCL code eliminate excessive flashing of display windows	360.5	26.0	58	303	provide a way to debug SCL code running on a remote host
173.0	5.0	149	336	provide the ability to hide the blinking cursor on FRAME windows	371.5	29.0	55	311	provide methods in the FRAME Graphics object to query the minimum and maximum arising a single provided in the
190.0	6.0	138	293	provide the ability to specify titles and footnotes when printing a Data Table	371.5	29.0	55	328	mum axis values permit the deletion of more than one row within a VIEWTABLE (table view)
211.0	7.5	122	286	provide a grid for lining up labels and columns within a Data Form	371.5	29.0	55	329	provide the ability to subset data displayed in a Data Table or Data Form object using the
211.0	7.5	122	334	provide the ability to compare SCL entries line by line					FIRST.variable and LAST.variable notation
220.0	9.5	119	288	provide the ability for the _POPUP_ method to popup a real pmenu rather than an	371.5	29.0	55	330	provide the ability to deter- mine if a libref is read-only in the SAS LIBRARY class
220.0	9.5	119	298	SCL list provide a spreadsheet object for FRAME entries	371.5	29.0	55	349	enhance the Graphics class to allow the specification of axis end points
238.5	11.5	111	291	provide a way to create and delete directories with the SAS External File class	378.5	32.0	54	301	provide the ability to edit cells in the Data Table object using the keyboard
238.5	11.5	111	314	provide the ability to turn off the window control buttons on	383.5	33.0	52	302	provide a method to set the font for host widgets
256.5	13.0	98	306	individual AF windows provide the ability to use the	390.5	34.5	49	337	provide the ability to dynamically create RANGE entries
263.0	14.0	95	315	enter key to select items in a list box provide the ability to specify a	390.5	34.5	49	346	provide an interface between SCL and SAS/INSIGHT graphics
200.0			0.0	method to run when a user ends SAS while a FRAME application is executing	398.5	36.0	47	309	allow more than 40 characters to be displayed on axis value labels on the Graphics Object
281.5		87	351	provide a way to view SLIST entries without writing code	402.0	37.0	46	313	provide the ability to specify a column and scroll directly to
289.0	16.0	85	339	provide system independent and hardware independent functionality for capturing screen displays	405.0	38.0	45	345	that column in VIEWTABLE alter the 'make' selection list on a FRAME entry to contain graphic representations of
298.5	17.0	80	321	provide a _PRINT_ method for the Data Form object					available objects instead of the current description list
306.0	18.0	77	285	provide the ability to define a shortcut key as an attribute on an object	414.5	39.0	43	300	provide the ability to display row and column information in a Data Table with cursor
314.5	19.0	74	312	add a method to allow customization of the legend label in the FRAME Graphics object	419.0	40.0	42	283	provide the ability to cus- tomize the toolbar on a Process Flow Diagram
320.5	20.0	70	308	provide the ability to save and include saved WHERE clause expressions in the Data Form and Data Tables' WHERE window	425.0	41.0	41	324	provide the ability to specify a row and scroll the table so that row is displayed as the top row in the VIEWTABLE window
322.5	21.0	69	325	provide the ability to define cursor shapes	431.5	42.0	40	333	provide more symbols for the CONTROL object
332.5	22.0	66	294	provide the ability to auto- matically move from one column to the next when	438.0	43.0	39	307	provide a _SET_SELEC- TIONS_ method for the Data Table and Table Editor classes
341.0	23.0	64	350	pressing the enter key in a Data Form provide the ability to create code in an SCL entry in batch	446.0	44.0	38	348	provide "rubber band/box" methods for the Graphics class to allow run-time selection of multiple values on a graph

# 1998 SASware Ballot Results

Overall Rank	Part Rank	Number of Votes	Item Number		Overall Rank	Part Rank	Number of Votes	Item Number	
451.5	45.5	37	316	add log scale to the Graphics object	554.0	65.0	14	317	add a method to allow high- lighting of more than one point
451.5	45.5	37	323	provide the ability to define lookup tables in the VIEWTABLE window					on a Graphics Object without having to hold down the shift key
457.04	7.5	36	292	provide the ability to have a locked row when the Data Table object initially displays	559.5	66.5	13 3	19	provide the ability to use the arrow keys to lock a row in the Data Table object
457.0	47.5	36	344	provide the ability to scroll row labels in the Table Editor object	559.5	66.5	13	343	provide the ability to display titles and footnotes in the MAP object
462.0	49.0	35	352	add an option to the SAS/AF Development Tools (primarily	563.0	68.0	12	296	provide the ability to use the ICON function outside of a FRAME INIT section
				the Performance Analyzer and the List Diagnostic Utility) to save the information gen- erated to an external file	572.5	69.5	10	326	provide a start-up option to define held columns in the VIEWTABLE window
479.5	50.5	32	304	display column labels in the WHERE Expression window and other secondary VIEWTABLE windows	572.5	69.5	10	342	provide an SCL list with the RESPOND_TO_DRAG_ONT O_ so validation can be per- formed
479.5	50.5	32	331	clear the print options when the BUILD procedure has finished printing	587.0	71.0	2	320	provide the ability to edit and compile model SCL from the VIEWTABLE window
484.0	52.0	31	327	provide the ability to display column labels in the WHERE	D.A.D.	<b>T</b> 137	0.4.0	/EOD	0 - 11
				Expression window for the Data Form and Data Table				/FSP	Software
493.0	53.0	29	347	objects provide an option for the	PRO	C FSI	EDIT		
				Graphics object to 'break' a line when the dependent variable has a missing value	Overall Rank	Part Rank	Number of Votes	Item Number	
497.0	54.5	28	305	provide the ability to build classes using PROC BUILD in batch mode	72.5	1.0	285	357	provide a selection list of previously applied WHERE clauses
497.0	54.5	28	322	provide the ability to treat screen fields in a PROGRAM	207.0	3.0	123	356	provide the ability to display label information with help on a variable
502.0	56.0	27	310	entry as items in an SCL list provide the ability to print the current screen only in VIEWTABLE without having to	293.0	5.0	82	355	add the PRINT item and the ability to scroll between pages of a screen to the default FSEDIT toolbox
507.0	<b>57</b> 0	00	050	actually print to save the setting	304.5	6.0	78	354	provide the ability to remove the message line from the
507.0	57.0	26	353	disable the ability to sort a data set opened in browse mode in the VIEWTABLE	360.5	7.0	58	358	FSEDIT window provide an option to specify a default of CAPS=YES or
526.0	58.0	21	295	window provide the ability to edit and/or compile the model SCL	497.0	9.0	28	359	CAPS=NO for all variables when a screen is not used provide a horizontal scroll bar
				entry from the Data Table or Data Form Attributes window	107.0	0.0	20	000	in the NEW window
529.5	59.0	20	341	provide a default GETROW label for dynamic Extended Tables			ETTE		
533.5	60.0	19	287	allow HELPMODE on a List	Overall Rank	Part Rank	Number of Votes	Item Number	
				Box object to display object help even if the list box has no items	488.5	8.0	30	360	provide the ability to associate an SCL program to a LETTER entry
537.5	61.0	18	299	provide a way to programmati- cally save a subclass created using the _NEW_ method	PRO	C FSI	₋IST		o.m.y
543.5	62.5	17	318	provide the ability to save customizations to a DATAFORM entry from the	Overall Rank	Part Rank	Number of Votes	Item Number	
543.5	62.5	17 3	32	VIEWTABLE window provide an automatic active	549.0	10.0	16	361	provide an option to define the maximum record length of the file to be opened
E40.0	64.0	40	225	Table object					·
549.0	04.0	16	335	provide the ability to change all instance variable values at execution time					

PRO	C FS	/IEW			Overall Rank	Part Rank	Number of Votes	Item Number	
Overall Rank	Part Rank	Number of Votes	Item Number		378.5	19.0	54	366	provide the ability to perform a correlated subquery (query
188.5	2.0	139	362	provide filters to search for data values					ton elated subquery (query two data sets with the same WHERE clause) as can be done in SQL
238.5	4.0	111	363	provide the ability to use the WHERE Expression window to build a WHERE subset in the FSVIEW window	409.0	20.0	44	378	provide a function to returns the key name(s) of any indexes on a data set
PAR	тх	Scre	en Co	ontrol Language	554.0	21.0	14	367	implement the functionality of CALL ISPLINK and CALL ISPEXEC found in VDEFINE
				ona or Language					and VDELETE
Overall Rank	Part Rank	Number of Votes	Item Number		PAR	T XI	SAS	/CAL	.C Software
82.0	1.0	279	381	provide a function to close all open files					
102.0	2.0	243	369	provide a warning when an application is nearing system	Overall Rank	Part Rank	Number of Votes	Item Number	
				resource limits to allow the situation to be corrected before terminating abnormally	252.5	1.0	101	385	provide the ability to directly import data, formulas, and macros from other vendors'
155.5	3.0	169	382	enhance the SORT function to allow sorting by formatted values					spreadsheets
Overall Rank	Part Rank	Number of Votes	Item Number		PAR	T XI	I SAS	/EIS	Software
173.0	4.0	149	365	provide the ability to deter- mine the relative observation	Overall Rank	Part Rank	Number of Votes	Item Number	
100 F	F 0	4.45	276	number of the current observation in a WHERE subset	260.0	1.0	97	392	provide the ability to send all information, including titles
180.5	5.0	145	376	provide a BY function to allow a data set to be read in SCL in the same way a BY variable					and logo to the printer and to specify fonts for printing
202.0	6.0	127	383	works in the DATA step provide the ability to recall	291.5	2.0	83	396	provide an option to omit the NWAY table when creating an MDDB
205.0	7.0	124	368	commands in the debugger allow the addition or modi- fication of variable definitions	338.0	3.0	65	393	provide the ability to specify the DISPLAY=YES option for hierarchies in the
215.0	8.0	121	370	in an existing SAS data set provide a function to deter-					Multidimensional Database Object and have them automatically registered in the
				mine the size of an external file	390.5	4.0	49	390	metabase provide the ability to specify a
223.0	9.0	117	375	provide a return code for listing functions that indicates whether the user cancelled or					font for the icon labels in the SAS/EIS Desktop
256.5	10.0	98	384	ended out of the window provide the ability to capture global commands	431.5	5.0	40	401	provide the ability to specify macro invocations in computed column definitions
271.5	11.0	90	372	provide the ability to specify wild cards in the FIND window of DATALISTC and DATALISTN	438.0	6.0	39	394	provide the ability to paste text from the PROGRAM EDITOR, LOG or OUTPUT window when creating slides using
274.5	12.0	89	373	provide the ability to query the date and time a catalog was last modified	466.5	7.5 3	4	398	EIS/PRESENTS provide the ability for the SUBSET BY DIMENSION
291.5	13.0	83	379	provide the ability to specify the clauses for the WHERE function in an SCL list					window to display values meeting previously selected category variable values rather than all possible values
298.5	14.0	80	364	provide the ability for ENVLIST to directly reference global or local sublists or items by name	466.5	7.5	34	399	provide the ability for the MultiColumn report to display the summarized values for the presummarized data set when
311.0	15.0	75	374	provide the ability to embed other language routines					Total Row On is selected rather than calculating it
	16.0	72	371	provide a function to delete a directory	479.5	9.0	32	387	provide support for Microsoft Metafile format in
338.0	17.0	65	377	provide a way to obtain the current DEBUG state to deter- mine if DEBUG is on or off	497.0	10.0	28	388	EIS/Presents provide the ability to use customized labels for the gener-
344.0	18.0	63	380	provide the ability to specify all PROC FSEDIT options on the CALL FSEDIT routine					ated chart when using pre- summarized data in the MULTICOLUMN REPORT object

Overall Rank	Part Rank	Number of Votes	Item Number		Overall Rank	Part Rank	Number of Votes	Item Number		
502.0	11.5	27	386	add the ability to print gray- scale patterns from EIS Objects with non-postscript devices	405.0 43.0 45		405.0 43.0 45 415 provide a procedu perform projection			
502.0	11.5	27	400	provide all chart types for the CONTROL chart object	Overall	Part	Number	Item		
515.0	13.0	24	395	provide the ability to save the	Rank	Rank	of Votes	Number		
0.0.0	10.0		000	current settings chosen when developing a slide presentation using EIS/PRESENTS for use in subsequent presentations	394.5	38.5	48	416	incorporate misclassification costs into the discriminant functions	
543.5			provide the ability to turn off the default SAS/EIS Software	PRO						
				search path when invoking SAS/AF application objects	Overall Rank	Part Rank	Number of Votes	Item Number		
567.0	15.0	11	397	provide the ability to specify the justification for the cate- gory variables	266.0	29.0	93	418	add Generalized Additive Models	
583.0	16.0	5	389	provide the ability to use a	281.5	31.5	87	419	allow fitting generalized linear mixed models	
				subgroup size of 1 for a continuous process in the CONTROL CHART object	356.5	35.0	59	420	add a SELECTION=option to allow model selection methods as in PROC REG	
PAR	T XI	II SA	S/ST	AT Software	398.5	40.0	47	417	make the procedure inter- active with the ability to add and drop variables	

#### PART XIII SAS/STAT Software

#### **All Procedures**

Overall Rank	Part Rank	Number of Votes	Item Number	
1.0	1.0	733	402	calculate confidence intervals for all appropriate statistics
3.0	2.0	681	405	provide power analysis and sample-size determination in all applicable procedures
15.0	3.0	501	403	provide more extensive non- parametric statistics and tests, including multiple comparisons
31.0	5.0	403	406	provide an option to obtain one-tailed tests
74.0	8.0	284	404	enhance the CLASS state- ment to allow dummy coding with selection of reference level, full-rank coding (like CATMOD), polynomial coding, ordinal coding, and others

#### **New Procedures**

Overall Rank	Part Rank	Number of Votes	Item Number	
16.0	4.0	499	409	provide a procedure to sup- port sampling replication tech- niques, such as jackknife and bootstrap resampling
54.0	6.0	342	408	provide a procedure for multi- variate outlier detection based on robust methods
77.5	10.0	282	410	provide a procedure to test for multivariate normality
152.0	15.0	174	411	provide a procedure for meta- analysis
207.0	21.0	123	407	increase support for preclinical data analysis, including bio- equivalence tests
223.0	23.5	117	414	add a procedure for fitting nested or mixed logit (discrete choice) models
234.0	26.0	113	412	provide a specific procedure to do sequential analysis
302.0	34.0	79	413	add a procedure to analyze limited dependent variable problems such as left truncation

### PROC GLM/PROC ANOVA

Overall Part Number Item Rank Rank of Votes Number

itaiit	- ruint	0. 10.00	Humber	
182.0	18.0	144	424	provide options for missing value replacement
203.5	20.0	126	423	allow the ALPHA=option for confidence intervals to take on any value
215.0	22.0	121	426	provide an option to output the N for the calculation of LSMEANS
223.0	23.5	117	425	provide model selection methods
243.5	27.0	107	432	provide valid tests for CONTRAST statements for mixed models based on the RANDOM/TEST option
286.5	33.0	86	431	provide valid standard errors for ESTIMATE and LSMEANS by implementing the same principles applied now using the RANDOM/TEST option
383.5	36.5	52	427	provide a graphical display for the ANOVA summary table generated from the REPEATED statement
383.5	36.5	52	429	provide an option for the LSMEANS and MEANS state- ments to give Hsu's MCB (multiple comparison with the best) test
394.5	38.5	48	433	allow the Satterthwaite degrees of freedom used in the RANDOM/TEST option to be applied to the LSMEANS, CONTRASTS, and ESTIMATE statements
402.0	41.5	46	421	provide multiple comparisons using the SLICE option
425.0	45.5	41	430	provide an option to compute standardized beta coefficients
488.5	47.0	30	434	allow a DF=option for the MODEL, CONTRAST ESTIMATE, LSMEANS and MEANS statements

Overall Rank	Part Rank	Number of Votes	Item Number	
526.0	48.0	21	422	provide tests that include inequality constraints on parameters
567.0	49.0	11	428	provide a testing option based on a summing to zero con- straint in mixed model for balanced data

### **PROC LOGISTIC**

Overall Rank	Part Rank	Number of Votes	Item Number	
83.5	12.0	278	440	add a CLASS statement
173.0	16.0	149	436	allow random effects in the model
177.0	17.0	147	441	allow fitting of generalized logit models (for nominal, categorical responses)
199.5	19.0	128	442	add observations to the OUTEST=data set for stan- dard errors, p-values, odds ratios and confidence limits
231.0	25.0	114	435	provide a RESTRICT statement and allow multiple MODEL statements
274.5	30.0	89	438	add options to print score and/or likelihood ratio statis- tics for the estimated para- meters and for use in model selection
281.5	31.5	87	439	add an option to provide a likelihood ratio test for each parameter estimate
402.0	41.5	46	437	provide an estimate of mar- ginal effect on the predicted probability in binary response models

### **PROC PHREG**

Overall	Part	Number	Item	
Rank	Rank	of Votes	Number	
425.0	45.5	41	443	add the C statistic

#### **PROC PROBIT**

Overall Rank	Part Rank	Number of Votes	Item Number	
414.5	44.0	43	444	provide a likelihood ratio test of the hypothesis that all model parameters are zero
68.0	7.0		295	446 provide robust regression techniques
77.5	10.0	282	447	compute a test for lack-of-fit
131.0	13.0	199	448	add an option to impute val- ues when they are missing, rather than deleting the obser- vation from the analysis
140.0	14.0	189	445	add an option to allow only the summary table to be printed when SELECTION=FOR-WARD, SELECTION=BACKWARD or SELECTION=STEPWISE
247.5	28.0	104	449	implement an all possible re- gression selection method based on PRESS statistics

### **PROC TTEST**

Overall	Part	Number	Item	
Rank	Rank	of Votes	Number	
77.5	10.0	282	450	add WEIGHT and FREQ statements PART XIV SAS/ETS Software

# **PART XIV SAS/ETS Software**

#### **Functions**

Overall	Part	Number	Item	
Rank	Rank	of Votes	Number	
281.5	1.0	87	451	implement a function to return the number of days between two supplied dates, based on a 360-day calendar year

#### New Procedures

New I	LOCE	aures		
Overall Rank	Part Rank	Number of Votes	Item Number	
302.0	3.0	79	452	support simultaneous discrete- choice econometric models, such as multinomial logit models
314.5	5.0	74	455	support a procedure which estimates a system of linear or nonlinear equations on pooled time series cross- sectional data
347.5	6.0	62	454	provide a procedure to analyze panel data when the response variable is categorical
462.0	9.0	35	453	support Heckman's two-stage procedure

# **PROC AUTOREG**

Overall	Part	Number	Item	
Rank	Rank	of Votes	Number	
537.5	12.0	18	456	support double threshold or DTARCH models

### PROC FORECAST

Overall Rank	Part Rank	Number of Votes	Item Number	
289.0	2.0	85		provide the ability to simul- taneously model and forecast the total and the components of that total

### **PROC MODEL**

Overall Rank	Part Rank	Number of Votes	Item Number	
304.5	4.0	78	458	support iteratively reweighted least squares
425.0	7.0	41	459	provide an option to correct the standard errors of the parameter estimates for het- eroscedasticity
543.5	13.5	17	460	provide an output data set which contains the jacobian matrix of partial derivatives evaluated at the final parameter estimates

		LREG	lta		Overall Rank	Part Rank	Number of Votes	Item Number	
Overall Rank	Part Rank	Number of Votes	Item Number		523.0	6.0	22	472	support SAS time formats on the analysis variable
572.5	15.0	10	461	support Shiller distributed lag models	DDO	C DE	LIADII	ITV	the analysis variable
PRO	C SY	SLIN			Overall	Part	LIABIL Number	IIY Item	
Overall	Part	Number	Item		Rank	Rank	of Votes	Number	
Rank 446.0	Rank 8.0	of Votes	Number 462	provide the ability to correct	529.5	7.0	20	474	support parametric models for repairable systems analysis
440.0	0.0		402	for an autoregressive error structure	554.0	9.0	14	473	model the scale parameter in life distributions with the linear model
488.5	10.0	30	463	treat missing values on an equation by equation basis rather than system wide so	PRO	C SH	EWHAI	RT	model
				that a different number of observations may be used for each equation	Overall Rank	Part Rank	Number of Votes	Item Number	
515.0	11.0	24	464	compute and print the stan- dard errors and t-ratios for the	353.5	1.0	60	475	implement an interactive drill- down feature for plotted points
578.5	16.0	8	465	reduced form coefficients support the LM test for	364.0	2.0	57	478	support SAS time formats on the process variable
				contemporaneous correlation as proposed by Breusch and Pagan (1980)	457.0	5.0	36	476	support subgroup tick mark labels up to 32 characters
PRO	C TS	CSREG	;	1 agail (1900)	559.5	10.0	13	477	provide support for warning limits in the form of multiple k-sigma limits
Overall Rank	Part Rank	Number of Votes	Item Number						
543.5		7	466	support maximum likelihood	PAR	T X\	/II SA	AS/IM	L Software
			407	estimation	Overall	Part	Number	Item	
585.5	17.0	4	467	support the J or Ja test for	Rank	Rank	of Votes	Number	
585.5	17.0	4	467	support the J or Ja test for non-nested models					provide a function to calculate
		·			Rank	Rank	of Votes	Number	
PAR	XT XV	·	S/OR	non-nested models	195.0	1.0	of Votes 130	Number 479	provide a function to calculate the probability for the multi- variate normal distribution
PAR	XT XV	/ SAS	S/OR	software	195.0	1.0	of Votes 130	Number 479	provide a function to calculate the probability for the multi-
PAR New	T X\ Proc	/ SAS	S/OR	Software provide an interactive model-	195.0	1.0	of Votes 130	Number 479	provide a function to calculate the probability for the multivariate normal distribution
PAR New Overall Rank	Proce	/ SAS	S/OR  Item Number	Software	Rank 195.0  PAR Overall	1.0 T X\ Part	of Votes 130  /III S	Number 479  AS/IN	provide a function to calculate the probability for the multivariate normal distribution
PAR New Overall Rank 325.5	Proce Part Rank 1.0	V SAS edures Number of Votes 68	S/OR  Item Number  468	software  provide an interactive model-building interface to the mathematical programming proce-	PAR Overall Rank	Rank 1.0  T X  Part Rank	of Votes 130  /III S	AS/IN  Item Number	provide a function to calculate the probability for the multivariate normal distribution  ISIGHT Software  provide the ability to record and replay all user actions provide the ability to control the number of graphs that print and their placement on
PAR New Overall Rank 325.5	Processing Part Rank	V SAS edures Number of Votes 68	Item Number 468	Software  provide an interactive model-building interface to the mathematical programming procedures	PAR Overall Rank 155.5	Rank 1.0  T X\ Part Rank 1.0	of Votes 130  /III S.  Number of Votes 169	AS/IN  Item Number 480	provide a function to calculate the probability for the multivariate normal distribution  ISIGHT Software  provide the ability to record and replay all user actions provide the ability to control the number of graphs that print and their placement on the page provide more general
PAR New Overall Rank 325.5	Processing Part Rank	V SAS edures Number of Votes 68	Item Number 468	Software  provide an interactive model-building interface to the mathematical programming procedures  Software	PAR Overall Rank 155.5 220.0	Rank 1.0  Part Rank 1.0 2.0 3.0	of Votes 130  VIII S.  Number of Votes 169 119	AS/IN  Item Number  480  483	provide a function to calculate the probability for the multivariate normal distribution  ISIGHT Software  provide the ability to record and replay all user actions provide the ability to control the number of graphs that print and their placement on the page provide more general modeling capabilities, such as nonlinear least squares
PAR New Overall Rank 325.5  PAR New Overall	Proce	V SAS edures Number of Votes 68  VI SA edures Number	S/OR  Item Number 468	software  provide an interactive model-building interface to the mathematical programming procedures  Software  provide a procedure for analy-	PAR Overall Rank 155.5 220.0 250.5	Part Rank 1.0 2.0 3.0 4.0	of Votes 130  /III S.  Number of Votes 169 119 102 89	AS/IN  Item Number  480  483  481	provide a function to calculate the probability for the multivariate normal distribution  ISIGHT Software  provide the ability to record and replay all user actions provide the ability to control the number of graphs that print and their placement on the page provide more general modeling capabilities, such as nonlinear least squares provide the ability to join two data sets
PAR New Overall Rank 325.5  PAR New Overall Rank 409.0	Processing Processing Part Rank 4.0	edures Number of Votes 68 /I SA edures Number of Votes	Item Number 468	Software  provide an interactive model-building interface to the mathematical programming procedures  Software	PAR Overall Rank 155.5 220.0	Rank 1.0  Part Rank 1.0 2.0 3.0	of Votes 130  VIII S.  Number of Votes 169 119	AS/IN  Item Number  480  483	provide a function to calculate the probability for the multivariate normal distribution  ISIGHT Software  provide the ability to record and replay all user actions provide the ability to control the number of graphs that print and their placement on the page provide more general modeling capabilities, such as nonlinear least squares provide the ability to join two data sets provide a way to highlight observations when more than one condition is true (such as
PAR New Overall Rank 325.5  PAR New Overall Rank 409.0	Processing Processing Part Rank 4.0	V SAS edures Number of Votes 68 VI SA edures Number of Votes 44	Item Number 468	software  provide an interactive model-building interface to the mathematical programming procedures  Software  provide a procedure for analysis of means	PAR Overall Rank 155.5 220.0 250.5	Part Rank 1.0 2.0 3.0 4.0	of Votes 130  /III S.  Number of Votes 169 119 102 89	AS/IN  Item Number  480  483  481	provide a function to calculate the probability for the multivariate normal distribution  ISIGHT Software  provide the ability to record and replay all user actions provide the ability to control the number of graphs that print and their placement on the page provide more general modeling capabilities, such as nonlinear least squares provide the ability to join two data sets provide a way to highlight observations when more than one condition is true (such as when X=1 AND Y=0) add step-wise regression
PAR New Overall Rank 325.5  PAR New Overall Rank 409.0  ADX Overall	Proceedings of the second seco	V SAS edures Number of Votes 68  VI SA edures Number of Votes 44  U Syste Number	Item Number 468 S/QC	Software  provide an interactive model-building interface to the mathematical programming procedures  Software  provide a procedure for analysis of means	PAR Overall Rank 155.5 220.0 250.5 274.5 344.0	Part Rank 1.0 2.0 3.0 4.0 5.5	of Votes 130  /III S.  Number of Votes 169 119 102 89 63	AS/IN  Item Number 480 483 481 484 486	provide a function to calculate the probability for the multivariate normal distribution  ISIGHT Software  provide the ability to record and replay all user actions provide the ability to control the number of graphs that print and their placement on the page provide more general modeling capabilities, such as nonlinear least squares provide the ability to join two data sets provide a way to highlight observations when more than one condition is true (such as when X=1 AND Y=0)
PAR New Overall Rank 325.5  PAR New Overall Rank 409.0  ADX Overall Rank	Proceedings of the second seco	edures Number of Votes 68  /I SA edures Number of Votes 44  u Syste Number of Votes	Item Number 468  S/QC  Item Number 469  Item Number 169	software  provide an interactive model-building interface to the mathematical programming procedures  Software  provide a procedure for analysis of means	PAR Overall Rank 155.5 220.0 250.5 274.5 344.0	Rank 1.0  Part Rank 1.0 2.0  4.0 5.5	of Votes 130  /III S.  Number of Votes 169 119 102 89 63	AS/IN  Item Number 480 483 481 484 486	provide a function to calculate the probability for the multivariate normal distribution  ISIGHT Software  provide the ability to record and replay all user actions provide the ability to control the number of graphs that print and their placement on the page provide more general modeling capabilities, such as nonlinear least squares provide the ability to join two data sets provide a way to highlight observations when more than one condition is true (such as when X=1 AND Y=0) add step-wise regression capability

PROC CAPABILITY

Overall Rank Park Number of Votes Number

47

398.5 3.0

471 provide standard errors and confidence intervals for capability indices

PART XIX SAS/LAB Software						Part Rank	Number of Votes	Item Number	
Overall Rank	Part Rank	Number of Votes	Item Numbe	r	438.0	19.5	39	502	allow the XPORT engine to support the same binary transfer capability that is pro-
311.0 431.5	1.0 2.0	75 40	488 489	add nonparametric statistics offer guidance for loglinear					vided by the BINARY option of PROC DOWNLOAD
431.3	2.0	40	409	and categorical analyses as carried out by PROC CAT-	Impo	rt/Fx	port W	izard	
				MOD and PROC LOGISTIC	Overall	Part	Number	Item	
DΔR	T Y	( Dat	e File	e Management	Rank 103.0	Rank 7.0	of Votes	Number 505	provide the ability to create
Overall	Part	Number	Item	•	100.0	7.0	201	000	one data set from multiple comma delimited files with the import wizard
Rank 2.0	Rank 1.07	of Votes	Number 490	r provide the ability to establish	341.0	15.0	64	506	provide the ability to access OEM data
2.0	1.07	10	400	a secondary SASWORK area to allow the program to con-	001	<b>0</b>	<b>\A/:</b>		
				tinue processing when the current WORK location runs	Overall	Part	ry Wind	IOW Item	
22.0	2.0	444	F00	out of space	Rank	Rank	of Votes	Number	•
22.0	2.0	441	500	the user before replacing an	227.5	11.0	115	508	include SAS functions in the interface
24.0	3.0	435	495	existing data set provide the ability to auto-	325.5	13.0	68	513	add a menu option to print the generated query
				matically delete empty data sets that are created when a PROC or DATA step fails	438.0	19.5	39	516	move <lookup distinct<br="">values to the top of Available Columns</lookup>
25.0	4.0	430	491	provide the ability to save text output in PostScript, PDF, and SGML formats	462.0	21.0	35	515	move <constant a="" available="" button<="" columns="" enter="" from="" td="" to="" value=""></constant>
40.0	5.0	375	496	provide a Table of Contents in the SAS LOG that lists the range of page numbers written by each procedure	466.5	22.0	34	507	provide line mode and SCL methods for creating and up- dating a Query Window profile in batch
96.5	6.0	248	498	store the time an entry in a catalog was last modified in addition to the userid and date	484.0		31	512	add a menu option to print the contents of a profile
125.5	8.0	207	503	of the modification provide an SPSS access method on the FILENAME statement to allow outputting of an SPSS file	511.0	24.0	25	510	allow default definitions for columns, such as display and statistics, to be changed when you invoke PROC REPORT from the SQL Query Window
132.0	9.0	198	492	provide a system option to allow an error to be generated when a procedure attempts to access an empty data set	554.0	25.0	14	514	add the ability to change the table names of an included query, even if the table is allocated
215.0	10.0	121	499	provide the ability to set the ALTLOG= option within the	567.0	26.0	11	509	include TITLE statements in a catalog member containing a saved query
				SAS session in order to direct portions of the LOG to another location in addition to the LOG window	576.5	27.0	9	511	implement a window to prompt for the setting of the MISSING option when you invoke
245.5	12.0	105	494	allow an index name to be different from the variable name for a simple index					PROC REPORT from the Query Window
332.5	14.0	66	493	enhance the RSASUSER option so the first invocation of a SAS session using RSASUSER allows write access and all subsequent		RT X		on A	ccess Methods
				invocations allow only read access	Overall Rank	Part Rank	Number of Votes	Item Number	
356.5		59	497	add a variable to SASHELP.VTABLE that con- tains the compression percentage	171.0	1.01	50	521	enhance the server-form LIBNAME syntax for TCP/IP usage in specifying: SERVER= <rmt host="" name<tcpip="" port#<="" td=""></rmt>
387.0	17.0	50	501	provide a JMP engine to read and write JMP data tables	332.5	2.0	66	517	allow multiple remote
419.0	18.0	42	504	enhance the PIPE access method on the FILENAME statement so the PIPE can be treated as a TAPE					SAS/CONNECT sessions or a remote SAS/CONNECT session and a SAS/SHARE server to run on the same OS/2 machine using the APPC access method

Overall Rank	Part Rank	Number of Votes	Item Number	r	Overall Rank	Part Rank	Number of Votes	Item Number	
347.5	3.0	62	520	add an option to APPCSEC on MVS to use the system userid and password	387.0	3.0	50	531	provide network addresses of connecting clients along with the present client name in the
473.0	4.0	33	519	provide server-side functionality of the APPC					server's LOG
				communication access method under IBM's AIX operating system	PAR	T X	XV S	AS/A	CCESS Software
484.0	5.0	31	518	provide a delayed handshake with VTAM if the initial hand-	All In		ces		
				shake attempt from a SHARE server fails	Overall Rank	Part Rank	Number of Votes	Item Number	
PAR			Ca	.m.i.a.a	149.5	1.0	177	537	provide the ability to display the table names and data- bases with PROC CONTENTS
Rem	ote	Libra	ry Se	ervices	161.5	2.0	163	534	provide the capability to dis-
Overall Rank	Part Rank	Number of Votes	Item Number						tinguish between NULL and BLANK character values returned from a DBMS
93.5	1.02	53	522	allow the LIBNAME statement to support DISP=SHR	179.0	3.0	146	535	provide the ability to assign labels to database variables when creating access and view descriptors to external
PAR	T XX	KIII S	AS/C	ONNECT Software	242.0	4.0	109	536	data files support "commit and roll back"
Overall Rank	Part Rank	Number of Votes	Item Number	•					transaction level processing verbs within DATA step MODIFY processing when
144.5	1.0	185	523	provide the ability to pass a LAN userid and password to the remote system					used against relational databases such as Oracle or Sybase
167.5	2.0	157	525	provide the ability for the local session (client) to stop a remote-submitted program	307.5	6.0	76	532	provide the ability to mark variables of a view as protected
191.5	3.0	135	524	with a reliable method provide the ability for the local	371.5	7.0	55	533	allow the ability to control the internal mapping of formats
				session (client) to auto- matically sign off when the remote session is terminated					used by SAS when exporting data
231.0	4.0	114	526	provide the ability to choose to	Inter	face t	to DB2		
				replace a data set during a download if the data set already exists	Overall Rank	Part Rank	Number of Votes	Item Number	
457.0	5.5 3	6	527	include an option in PROC UPLOAD to automatically convert all VIEW members to data sets during a library transfer	264.0	5.0	94	538	make the default format assigned to date columns/-variables be DATE9 (with the year 2000 approaching) to coincide with the default
457.0	5.5	36	528	add an option to the UPLOAD and DOWNLOAD procedures to limit the amount of time the					DATETIME30 which already does this for timestamp columns
	procedure will run Interface to Sybase								
PAR	T XX	KIV S	AS/S	HARE Software	Overall Rank	Part Rank	Number of Votes	Item Number	
Overall Rank	Part Rank	Number of Votes	Item Number	•	572.5	8.0	10	539	provide the capability to simulate the -A option used with SYBASE ISQL to
3020	2.0	79	529	provide the ability to send					increase the default packet size
				administrator-type messages to client sessions that are seen as being connected to					
				the server	PAR SAS			se A	dministrator
PRO	C SE	RVER							·
Overall Rank	Part Rank	Number of Votes	Item Number	•	Overall Rank	Part Rank	Number of Votes	Item Number	
281.5	1.0	87	530	add the ability to disconnect a user from a SAS server after a specified period of inactivity	311.0	1.0	75	544	support the storage of different versions of metadata in the warehouse
					378 5	2.0	54	543	implement warehouse impact

378.5 2.0 54 543 implement warehouse impact analysis

Overall Rank	Part Rank	Number of Votes	Item Number	
383.5	3.0	52	551	provide a lookup table mechanism of performing data cleaning/scrubbing
390.5	4.0	49	547	provide a component to report on warehouse perfor- mance statistics for query management
398.5	5.0	47	545	provide the ability for the administrator to define object types in the warehouse
438.0	6.0	39	550	provide a user interface that describes how columns in a warehouse table are populated
446.0	7.0	38	540	provide the ability to sort the variable names in the Columns tab of the Detail Table Properties by selecting the heading for NAME, TYPE, LENGTH, DESCRIPTION, FORMAT and INFORMAT
473.0	8.0	33	548	provide tools to archive metadata and data to tape or offline storage
479.5	9.0	32	546	provide more report logging and error handling support for the generated batch jobs
523.0	10.0	22	542	provide the ability to alpha sort the Tree diagram on the left
533.5	11.0	19	549	support multiple parentage in the Process Editor
578.5	12.0	8	541	provide an option to position the cursor at the top or bottom of the variable list when a new variable is added

# **PART XXVII Professional Services**

Overall Rank	Part Rank	Number of Votes	Item Number				
87.0	1.0	268	554	provide a library of SAS training courses that could be accessed via the Internet (World Wide Web) or via an Intranet			
533.5	2.0	19	552	provide training on			
				(write in a subject)			
TOP 4 SUBJECTS REQUESTED:							
STAT MODELLING/REGRESSION 5							

STAT MODELLING/REGRESSION 5
MARKETING TECHNIQUES 2
SAS/INTRNET SOFTWARE 2
SYSTEM PERFORMANCE 2

0 553 provide consulting services on

(write in a subject)

# **PART XXVIII Documentation**

# **Books**

Overall Rank	Part Rank	Number of Votes	Item Number	
121.5	1.0	210	555	publish a general manual containing examples for both the DATA step and procedures
144.5	2.0	185	556	publish a comprehensive book on the design and implemen- tation of AF/FRAME and EIS systems with complete examples that tie together

#### **Online Information**

Overall	Part	Number	Item	
Rank	Rank	of Votes	Number	
148.0	3.0	178	557	make online documentation available by subscription through the Internet (World Wide Web)

# **PART XXIX Future Directions**

#### **New SAS Products**

11011	CAO		013	
Overall Rank	Part Rank	Number of Votes	Item Number	
158.5	1.0	167	558	provide a menu-based "Table Production System," similar to SAS/ASSIST, but specific to tabular reporting applications
203.5	2.0	126	559	provide the capability of metering individual SAS products on a network so the SAS System maintains and enforces proper license compliance
419.0	3.0	42	561	provide a product of special- ized procedures for use in environmental science
529.5	4.0	20	560	provide a range of service level agreement facilities to support quality improvement and service management functions, such as prime time calculations, vendor service and joint venture monitoring

# PART XXX SAS System for Mainframes

#### General

Overall Rank	Part Rank	Number of Votes	Item Number	
254.0	2.0	99	565	enhance the INFILE statement FILEVAR=option to allow the user to specify a single tape device (UNIT=AFF)
325.5	3.0	68	564	store the remote system's TCP/IP IP address into a vari- able when using the SOCKET access method
353.5	4.0	60	563	provide a method of writing warning/error messages con- cerning the expiration of the SAS license to the MVS console
502.0	5.0	27	562	provide additional information in the SAS LOG when access- ing VSAM data sets via the SHOWCB macro

### **SAS System under MVS**

Overall	Part	Number	Item	
Rank	Rank	of Votes	Number	
100.0	1.0	244	566	add the ability to use wild- cards when reading PDS members with the INFILE statement

# PART XXXI SAS/CPE Software

Overall Rank	Part Rank	Number of Votes	Item Number	
438.0	1.0	39	568	provide the ability to create a dynamic graph from a WEB browser and drill down into the raw data that produced the graph
567.0	2.0	11	567	provide the ability to select a different BY order than the BY/CLASS order defined in the table definition

# PART XXXII SAS System under Macintosh

#### General

Overall Rank	Part Rank	Number of Votes	Item Number	
466.5	1.0	34	569	provide the ability to change the orientation of the toolbar

# PART XXXIII SAS System under OpenVMS

#### General

Overall Rank	Part Rank	Number of Votes	Item Number	
519.5	1.0	23	570	provide transparent access of catalogs and catalog entries between OpenVMS for VAX and AXP host systems
567.0	2.0	11	571	allow the use of user-defined logical name tables
588.0	3.0	1	572	allow the RAH and WBH dataset options to be specified as system options, on LIBNAME statements and in DATA step views

# PART XXXIV SAS System for UNIX Workstations

### General

Overall Rank	Part Rank	Number of Votes	Item Number	
298.5	1.0	80	574	provide an informat to convert UNIX datetime values into SAS datetime values
322.5	2.0	69	573	provide support to fully utilize SMP boxes
332.5	3.0	66	575	support the 'X' command from within a SAS X11 session
360.5	4.0	58	578	provide the ability to define a SASPATH environment variable with a list of directories that the SAS system would search in batch mode for the *.sas file
438.0	5.0	39	579	provide an Xresource to allow a blinking cursor in the PROGRAM EDITOR
466.5	6.0	34	576	implement PROC SOURCE
507.0	7.0	26	577	provide the ability to read and write to dlt tape drives

# PART XXXV SAS System for Personal Computers

#### General

General				
Overall Rank	Part Rank	Number of Votes	Item Number	
5.0	1.0	627	589	implement a menu option for exporting the contents of a SAS data set or OUTPUT window to a Microsoft Word document file type
70.0	2.0	291	587	provide the ability to view the .log and .lst files while SAS is still writing to them in batch mode
114.5	3.0	222	586	provide more file extension options when choosing FILE-SAVE AS in order to save the contents of a window
191.5	4.0	135	588	provide a way to send SAS titles to external database packages like Excel or HTML using the DBLOAD procedure
245.5	5.0	105	582	provide an option to allow the page size of an Excel file created by SAS to be changed
262.0	6.0	96	585	support the acknowledgement of a receipt when a mail message is sent
332.5	7.0	66	584	provide support for outer join processing with the SAS ODBC driver
338.0	8.0	65	580	provide unicode support under Windows NT
409.0	9.0	44	581	provide the ability to stop a SAS session from running after PROC ODBCSERVER runs
488.5	10.0	30	583	add the ability to define a path along with the DLL name in the MODULE or ROUTINE attribute in the SASCBTBL table

### **Distribution of Respondent Job Functions:**

21%	Manager/Staff End User Department
15%	SAS Software Representative
45%	Applications Programmer
18%	SAS Software Consultant
19%	Systems Analyst
7%	SAS Software Training Coordinator
8%	Systems Manager
42%	Statistician
10%	Manager/Staff Information Center