

## 2005 SASware Ballot® Results

	Overall Rank	Part Rank	Number of Votes	Item Number	
<b>PART I</b>					
<b>SAS Language</b>					
<i>General</i>	7	3	225	4	add the ability to use FTP access through a LIBNAME statement to read or write SAS data sets on an FTP server
	38	10	140	3	provide an option to display the number of observation and variable values as formatted values (using the COMMA format, for example) within SAS log NOTE: messages
	53	12	115	2	allow SMTP e-mail (in a DATA step) to continue sending e-mail after an invalid address has been encountered
	75	14	95	5	disable data set compression if the SPD engine estimates that compression will not reduce the size of the data set
	135	16	45	1	provide a way to specify a secondary SMTP relay with the EMAILHOST parameter or extend the time (or increase the number of attempts) to connect by modifying the SAS configuration to help eliminate connection failures
<i>DATA Step</i>	3	2	287	7	allow formatting of TITLE and FOOTNOTE statements so that the text can be constructed in the same way as a formatted PUT statement
	8	4	209	8	allow the use of a character string as a delimiter for the DLM= option in the INFILE statement
	11	5	201	6	provide a new option for the SET, MERGE, UPDATE, and MODIFY statements that in the presence of a BY statement will be set to 1 when any of the data sets named in the statement has exhausted all observations

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<b>PART I</b>					
<b>SAS Language</b>					
<i>Informats and Formats</i>					
	28	7	157	10	allow the DATETIME format to honor a length of 5 to display only the day and month in the form of DDMMM
	33	8	147	9	provide a DATETIME format to display the hours as 24:00 instead of 00:00
	51	11	118	12	allow the TRAILSGN informat to read and remove embedded characters such as commas and dollar signs, along with reading a trailing plus or minus sign
	92	15	76	11	provide an NLWORDS format, similar to the WORDS format, to write numeric values as words using the specified locale language
<i>WHERE Statement</i>	2	1	311	13	enhance the WHERE statement to allow the shorthand notation of integer ranges within the IN operator
<i>Display Manager System &amp; Enhanced/Text Editor</i>					
	23	6	167	17	provide the capability to right-click an INCLUDE statement then have the option to open and edit the referenced file without having to go to the File/Open menu
	34	9	146	14	add the ability to the Enhanced Editor to intelligently link to certain objects, such as a LIBNAME statement, to show contents in the Explorer widow, or a %INCLUDE statement populating a new Editor window
	64	13	105	16	add the Remote Submit choice to the pop-up menu that is seen when right-clicking in the Enhanced Editor
	157	17	30	15	include some special NLS-translated data sets in SASHELP

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<b>PART II Base SAS Procedures</b>					
<i>PROC APPEND</i>	6	3	238	18	add the ability to list more than one name on the DATA= option of PROC APPEND
<i>PROC COMPARE</i>	12	5	200	21	add an option to ignore case when comparing the values of character variables
	19	11	183	19	add an EXCLUDE statement in order to remove a variable list from the comparison
	21	13	178	20	add an option to list the variables with unequal values in the output data set
	85	44	83	22	add an option to PROC COMPARE that allows the comparison of two data sets even if they contain no observations
<i>PROC CONTENTS</i>	34	18	146	23	provide an option to include the code that generated or modified the data set in the procedural output
<i>PROC COPY</i>	134	58	46	24	provide an option to automatically truncate data set names when copying to SAS 6 libraries
<i>PROC CORR</i>	42	20	133	26	add an option to print only the upper triangular portion of the correlation matrix
	62	30	106	25	provide an option to display column variable labels in the output
	71	36	97	30	add a PAIRWISE option to compute only paired correlations from the VAR and WITH statements; for example, for VAR a b c; and WITH x y z;, only correlations of (a with x), (b with y), and (c with z) are produced
	104	49	64	27	add an option to compute the polyserial correlation between continuous and ordinal variables
	106	50	59	29	add polychoric correlations

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<b>PART II Base SAS Procedures</b>					
<b><i>PROC CORR</i></b> <i>(continued)</i>	131	56	48	28	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
	150	59	35	31	add a NOINT option for uncentered and uncorrected correlations and p-values
<b><i>PROC CPORT</i></b>	75	40	95	32	provide an option to allow the encryption of transport files
	155	60	32	33	add a NOCLONE option, as in PROC COPY, to both PROC CPORT and PROC CIMPORT
<b><i>PROC DATASETS</i></b>	121	55	52	34	set an appropriate value of the SYSCC macro variable when statements such as a LABEL statement generate a warning when following the MODIFY statement
<b><i>PROC FORMAT</i></b>	15	8	191	35	provide the ability to create a picture format for a character value
<b><i>PROC PRINT</i></b>	4	1	271	38	provide the ability to display the label of the BY variable rather than the variable name on the summary line
	10	4	202	37	provide an option to insert a blank line after every n lines and provide a secondary option to specify the n value
	14	7	192	42	add an option that allows the user to specify a label for the total line when the SUM option is used
	16	9	190	41	add an option to print a special report when no observations are found in the data set
	18	10	185	39	provide the ability to specify a variable that triggers calculation of subtotals when its value changes

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<b>PART II Base SAS Procedures</b>					
<i>PROC PRINT</i> (continued)	20	12	179	36	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
	45	21	129	40	add an option to put the grand total summary line on a separate page when the SUM and PAGEBY statements are used
<i>PROC REPORT</i>	26	15	165	46	provide the ability to suppress summary lines when there is only one observation for a group
	45	21	129	55	add an option to keep groups from splitting across pages
	48	23	123	60	add an option that will reset the page number for each BY group
	51	24	118	51	allow a header to span more than one ID variable
	57	26	109	43	provide the ability to use multi-label formats
	57	26	109	47	provide the ability to dynamically align text from LINE statements with report columns
	59	28	108	49	provide the ability to use the break options SKIP, OL, UL, DUL, and DOL in all ODS destinations except OUTPUT
	66	32	104	50	provide the ability to conditionally execute LINE statements in a COMPUTE block
	68	34	100	48	provide the ability to add labels and column names to ACROSS variables in an output data set
	71	36	97	52	provide an option to display GROUP and ORDER variables in one box similar to TABULATE output in HTML, RTF, PDF, and PRINTER destinations

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<b>PART II</b>					
<b>Base SAS Procedures</b>					
<b>PROC REPORT</b> <i>(continued)</i>	71	36	97	56	provide the 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
	71	36	97	59	provide a method to define a SPLIT character that can be used with all ODS destinations
	84	43	85	58	add an option to suppress the printing of a blank LINE statement when the variables are blank or missing
	87	45	79	45	provide support for the OF variable list syntax in conjunction with functions such as SUM and MEAN
	108	51	58	44	add an option that is used in conjunction with a FLOW'ed ORDER variable that would allow other variables to print beside the flowed lines of text
	108	51	58	53	provide the ability to autopopulate computed variables under ACROSS, based on the number of ACROSS values, so that the exact number of columns does not need to be determined prior to PROC REPORT
	108	51	58	54	allow placement control of values in the LINE statement via absolute or relative pointers when using ODS destinations other than OUTPUT
	115	54	56	57	provide the ability to span special characters in headers for all ODS destinations except OUTPUT
<b>PROC SORT</b>	5	2	255	61	enhance PROC SORT to include a new option that would test the input data set to see if it is already in sequence
<b>PROC SQL</b>	12	5	200	62	enhance PROC SQL to add support for the MEDIAN function as a summary function

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<b>PART II Base SAS Procedures</b>					
<b><i>PROC SQL</i></b> <i>(continued)</i>	22	14	168	64	provide syntax to PROC SQL for variable lists, specifically in the SELECT clause
	40	19	135	68	add syntax that would allow SQL PASSTHRU to connect to the data-base using options from an existing LIBNAME connection
	56	25	110	63	add transaction processing syntax to PROC SQL
	59	28	108	65	add the ability to collect more host information, such as the number of records deleted or updated, with the EXECUTE statement
	67	33	102	67	add the ROLLUP option to the PROC SQL GROUP BY clause
	79	42	93	66	add an option to PROC SQL to report on the amount of utility file space that was consumed
<b><i>PROC TABULATE</i></b>	70	35	99	69	add the PANELS= option to PROC TABULATE
<b><i>PROC TRANSPOSE</i></b>	29	16	156	71	provide the SUFFIX option, which is similar to the PREFIX option, in the PROC TRANSPOSE statement
	31	17	149	70	provide the ability to order by formatted values, including missing values, in the output data set
<b><i>PROC UNIVARIATE</i></b>	64	31	105	76	add an option to compute exact p-values for the Wilcoxon signed-rank test
	78	41	94	74	provide one-tailed Wilcoxon signed-rank tests
	94	46	74	73	provide Dixon's test for outliers
	96	47	73	72	provide Grubb's test for outliers

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<b>PART II Base SAS Procedures</b>					
<i>PROC UNIVARIATE</i> (continued)	103	48	66	75	add VREF= and HREF= data sets for the PLOT statements in both the UNIVARIATE and CAPABILITY procedures
	131	56	48	77	add an option to limit the number of bins in the key cell of a comparative histogram that is displayed within a range of k standard deviations above and below the mean of the data in the key cell
<b>PART III SAS Macro Facility</b>					
	1	1	318	78	add %SELECT and %WHEN to the MACRO facility and have it function the same as SELECT and WHEN do in the DATA step
<b>PART IV Output Delivery System (ODS)</b>					
	9	1	207	83	provide an easy-to-use GUI to generate STYLE template code
	45	2	129	79	provide a method to query ODS options, similar to ODS SHOW, and make the results accessible for use within programming statements
	62	3	106	81	provide a plaintext ODS output destination that supports several style options
	75	4	95	80	provide the ability to switch character sets in order to produce special characters that are not in the character map of the current character set
	81	5	90	85	provide the ability to underline text in ODS PRINTER destinations
	91	6	77	82	allow ODS printer code to interpret FILLCHAR of '-' as a request for a continuous line



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<b>PART IV</b>					
<b>Output Delivery System (ODS)</b>					
<i>(continued)</i>					
	94	7	74	87	provide the ability to use custom JavaScript in PDF files created by ODS
	123	8	51	84	provide a way of programmatically determining the last HTML temporary file created when HTML is selected from the Results tab
	141	9	39	86	provide an automatic viewer on z/OS systems for PDF files created by ODS
<b>PART V</b>					
<b>SAS/GRAPH</b>					
<i>GENERAL</i>					
	16	1	190	91	provide an option to automatically wrap the text of a TITLE or FOOTNOTE statement to a new line instead of reducing the text height or truncating the text string to fit on a single line
	25	2	166	90	add DESCENDING and ASCENDING options
	30	3	154	88	provide the ability to angle and rotate axis values 90 or -90 degrees
	49	6	121	95	provide the ability to specify varying axis ranges across BY groups based on values in the data set
	50	7	120	89	provide an option to stagger the axis values
	55	9	112	96	provide the ability to output points from interpolated lines
	90	13	78	93	provide the ability to specify multiple annotate data sets with the ANNOTATE= option
	98	14	72	94	provide the ability to specify a gradient pattern fill for the VALUE option
	108	16	58	92	provide a procedure that creates a Critical Success Factor (CSF) chart

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<b>PART V SAS/GRAPH</b>					
<i>PROC GCHART</i>	39	4	137	97	add an option to automatically size statistics such as SUM or PERCENT to fit over the bars on a vertical bar chart
	82	11	86	98	provide an option in the PIE statement to specify the radius of the pie chart
<i>PROC GPLOT</i>	40	5	135	103	provide an option to control the thickness of reference lines
	54	8	114	100	add the ability to draw error bars in both x and y directions
	68	10	100	99	add the DISCRETE option to the PLOT and PLOT2 statements
	82	11	86	101	add an option to represent the MEAN value on a HILO or STD interpolation with a specified symbol instead of a hash mark
	131	17	48	102	provide the ability to generate horizontal HILO and HILOC interpolation lines
<i>PROC GREPLAY</i>	100	15	70	104	add templates with an additional panel for shared titles
<i>PROC G3D</i>	148	18	36	105	provide the ability to specify solid shapes for the SHAPE option in the SCATTER statement
<b>PART VI SAS AppDev Studio</b>					
	174	1	24	109	provide the ability to apply actions to multiple selected rows at once in TableView
	179	2	22	108	provide the ability to apply column properties to multiple columns at once in the TableView customizer
	189	3	19	106	enable the use of the navigation bar to return to the previous location within an OLAP report when navigating down and then back up rather than returning to the top of the report
	189	3	19	107	make available the tableEditable property in the TableView customizer

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<b>PART VI</b>					
<b>SAS AppDev Studio</b> <i>(continued)</i>					
	189	3	19	112	provide the ability to export images as well as the table in the Visual Data Explorer (VDE)
	189	3	19	113	provide the ability to display the column labels when reaching through to the detail data in the Visual Data Explorer (VDE)
	197	7	18	111	provide the ability for the Visual Data Explorer (VDE) to filter dates based on formatted values other than MONTH, DAY, or YEAR
	218	8	11	114	provide the ability to hide empty cells in a Visual Data Explorer (VDE) report
	224	9	4	110	set filled markers as the default for LinePlot
<b>PART VII</b>					
<b>SAS OLAP SERVER</b>					
<i>Configuration &amp; Administration</i>					
	145	1	38	118	provide a facility to synchronize a cube when a column name has changed so you do not have to delete and rebuild the entire cube
	157	2	30	116	provide a visual way to denote that a cube has been checked out and is not available for update
	161	4	29	115	provide a way to retrieve the entire MDX string for an active query on a cube
	161	4	29	117	add an option at the server level to allow an administrator to specify how summarizations are displayed for all cubes
<i>Cube Designer</i>	157	2	30	122	create a default hierarchy automatically that contains all levels of the current dimension when no hierarchy has been explicitly defined

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<b>PART VII SAS OLAP SERVER</b>					
<i>Cube Designer</i> (continued)	166	6	27	121	enhance the Manual Tuning interface to display selected levels when an aggregation is selected
	170	7	26	119	allow an existing aggregation name to be modified
	176	8	23	120	make the Performance Options window available from the Manual Tuning interface
	189	9	19	123	provide a way to selectively reset advanced cube options when the input type is changed
<b>PART VIII SAS/STAT</b>					
<i>General</i>	23	1	167	124	add a procedure for sample survey design including optimal sample size allocation methods
<i>PROC BOXPLOT</i>	80	3	92	128	provide the ability to generate horizontal box plots in PROC BOXPLOT
	86	4	81	127	add a WEIGHT statement so that weighted quantiles can be used in generating box plots
	87	5	79	129	add an option to draw reference lines between blocks
	96	7	73	126	add an option to center labels within each block
	98	8	72	125	add an option to specify the length of the whiskers in percentile units from 0 to 25
<i>PROC GAM</i>	135	26	45	130	add a WEIGHT statement
<i>PROC GENMOD</i>	92	6	76	131	show variable labels in results
<i>PROC GLM</i>	102	9	68	132	support the maximum t-test for one-way ANOVA for monotone alternatives

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<b>PART VIII SAS/STAT</b>					
<i>PROC LIFEREG</i>	123	19	51	134	provide the output data set of PROC LIFEREG with automatically computed estimates of the HAZARD function
	126	21	50	135	fit a three-parameter (shape, scale, and threshold) Weibull distribution
	130	25	49	133	fit parametric models for truncated data
	139	27	41	137	add the ability to fit frailty models
	152	31	33	136	add an OFFSET option
<i>PROC LIFETEST</i>	105	10	61	138	perform multiple comparisons for tests of homogeneity of the survival curves
	108	11	58	140	provide additional graphics statements such as AXIS and LEGEND
	108	11	58	144	compute the median survival time for the life table or actuarial method (by interpolation)
	114	13	57	141	perform person-year and standardized mortality ratio analysis
	117	14	55	142	perform actuarial life table and demographic analyses
	117	14	55	143	add an option to plot failure versus time
	121	18	52	139	produce cumulative incidence tables and plots
<i>PROC MI</i>	145	29	38	145	add an option for missing pattern print
<i>PROC MIXED</i>	126	21	50	146	add deletion diagnostics for best linear unbiased predictions (blup)
<i>PROC PHREG</i>	119	16	54	147	add the ability to perform frailty analysis and fit random effects models
	141	28	39	148	add a GROUPNAMES= option to add or delete a group of covariates simultaneously for use with variable selection techniques

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<b>PART VIII SAS/STAT</b>					
<i>PROC REG</i>	36	2	144	149	provide a test for lack of fit
	123	19	51	150	send to output the partial leverage variables used to produce partial leverage plots
<i>PROC SURVEYMEANS</i>	120	17	53	152	add percentile estimation
	126	21	50	151	compute ratio estimates for subpopulations or domains
	126	21	50	153	add a CONTRAST statement for comparing means, totals, and percentages across levels of domain variables
	152	31	33	155	add an option to specify which subpopulations to analyze from the DOMAIN statement, rather than getting all the output from the domain levels
	170	33	26	154	provide double ratio estimation
<i>PROC SURVEYREG</i>	150	30	35	156	add a DOMAIN statement
<b>PART IX SAS/ETS</b>					
<i>PROC ARIMA</i>	135	1	45	157	support holdout samples and rolling simulation capability
	138	2	43	158	print and send to the OUTEST= data set statistics of fit such as R-square, adjusted R-square, mean absolute percent error (MAPE), mean percent error (MPE), mean absolute error (MAE), and Theil statistics
	157	5	30	160	support an ID statement to copy specified variables from the input data set to the output data set
	185	15	20	159	support RESTRICT and BOUNDS statements to impose restrictions and inequality constraints on the model parameters

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<b>PART IX SAS/ETS</b>					
<i>PROC AUTOREG</i>	148	4	36	162	compute additional statistics of fit such as mean absolute percent error (MAPE), mean absolute deviation (MAD), and the corrected Akaike's information criterion (AICC)
	161	6	29	161	compute standardized parameter estimates
	161	6	29	163	support tests and restrictions on AR, GARCH, and HETERO parameters
<i>PROC EXPAND</i>	174	9	24	164	support a COPY statement to copy character variables to the OUT= data set
<i>PROC MDC</i>	185	15	20	166	add FREQ and WEIGHT statements
	204	24	15	165	support estimation of cross-nested logit discrete choice models
	204	24	15	167	support alternative normalizations for the nested logit model
<i>PROC MODEL</i>	139	3	41	168	support simultaneous equation models with random effects
	182	12	21	169	support the quasi-maximum likelihood adjustment to the standard errors of the GARCH parameter estimates
	182	12	21	170	provide the ability to specify the functional form for the conditional covariance for multivariate GARCH models
<i>PROC QLIM</i>	166	8	27	174	support the random-effects probit model
	176	10	23	178	support multivariate logit models
	179	11	22	175	support the fixed-effects logit model
	182	12	21	171	support panel-data fixed and random effects for qualitative and limited dependent variable models
	189	18	19	172	support models with right-hand side endogenous variables such as the simultaneous probit model
	197	21	18	179	compute goodness-of-fit statistics for Tobit models

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<b>PART IX SAS/ETS</b>					
<b><i>PROC QLIM</i></b> <i>(continued)</i>	209	28	14	173	add a TEST statement to provide multiple tests, such as LM, LR, and Wald, for testing functions of parameters
	209	28	14	176	support Huber-White standard errors for the Tobit model with the COVEST= option
	209	28	14	177	add a grouped regression model for ordinal censored data with known thresholds
<b><i>PROC SPECTRA</i></b>	204	24	15	180	compute the confidence limits on the spectral density estimates and send output to the OUT= data set
<b><i>PROC VARMAX</i></b>	189	18	19	183	support simultaneous forecasting of individual variables and their grand total, accounting for correlation among the variables
	197	21	18	181	support HEGY and Engle-Granger cointegration tests
	197	21	18	182	support likelihood ratio tests with the TEST statement
<b><i>PROC X12</i></b>	185	15	20	185	support user-defined regressors in the REGRESSION statement
	189	18	19	187	support the X11REGRESSION statement as an alternative to the REGRESSION statement for handling calendar effects
	204	24	15	184	support the Easter and Statistics Canada's Easter predefined regressors in the REGRESSION statement
	209	28	14	186	support temporary and permanent user-defined prior adjustments in the TRANSFORM statement



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<b>PART X SAS/QC</b>					
<i>PROC CAPABILITY</i>	147	1	37	188	provide overlaid and comparative versions of all graphical displays
<i>PROC RELIABILITY</i>	172	2	25	190	add an OUTPUT statement
	197	3	18	191	fit parametric models for truncated data
	218	4	11	189	provide a method in the MCFPLOT statement to place a straight reference line on the MCF plot
<b>PART XI SAS/IML</b>					
	155	1	32	192	allow user-defined modules to have optional arguments
	166	2	27	194	allow the RANK and RANKTIE functions to accept missing values
	172	3	25	195	provide the ability to use undefined matrices in user-defined IML functions
	179	4	22	196	provide a function to compute one-step ahead and multi-step forecasts for fractionally integrated ARIMA models
	215	5	13	193	allow parentheses for RETURN statements to be optional
<b>PART XII Enterprise Guide</b>					
	.	.	0	197	add the ability to insert SPSS data files
<b>PART XIII Data File Management</b>					
<i>Import/Export Wizard</i>	.	.	0	198	add transport files to the standard data types available for importing via the Import Wizard
	.	.	0	199	add a transport file to the list of output file types when using the Export Wizard
	.	.	0	200	allow the import of SPSS portable files via the Import Wizard

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<b>PART XIV SAS/ACCESS</b>					
<i>General</i>	61	1	107	201	support arithmetic operations on DATE column types in WHERE predicates
	115	3	56	203	provide functionality for SASDATEFMT to be used as a global option
	141	4	39	202	allow the ability to pass an NLS character set via the LIBNAME statement
<i>Interface to DB2</i>	106	2	59	204	provide the ability to trap error messages and programmatically determine whether a note instead of an error message should be written to the SAS log
<b>PART XV SAS Universal ODBC Driver</b>					
	87	1	79	205	add an option for the ability to encrypt all data using SAS proprietary encryption
<b>PART XVI SAS Scalable Performance Data Server</b>					
	152	1	33	206	provide a utility to check the internal structure of a database without having to read all the tables in the domain
<b>PART XVII SAS/SHARE</b>					
	.	.	0	207	provide a client-side LOCKWAIT option to specify a maximum time interval to wait for the availability of a locked object under the control of a SAS/SHARE server
<b>PART XVIII SAS Information Delivery Portal</b>					
	165	1	28	208	provide an option to remember the user name and password in the Portal Logon Window
	176	2	23	209	provide a method in the Collection Portlet to move or copy links from one collection to another

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<b>PART XIX</b>					
<b>SAS Integration Technologies</b>					
	.	.	0	210	allow SAS to be a DCOM client that can talk to external software rather than a DCOM server that is called by external programs
<b>PART XX</b>					
<b>SAS Research Data Management</b>					
	141	1	39	211	provide a way to interrupt a job
	166	2	27	214	add a process flow diagram for ETL and analytical processes
	185	3	20	221	provide the ability to print or export the audit trail
	203	4	17	212	provide a way to load users and user groups in batch from an existing data set
	204	5	15	215	add a query filter with an expression builder for uploaded raw data files
	209	6	14	217	add an option to start and stop all Research Data Management (RDM) servers as services
	209	6	14	220	provide a method to expand, maximize, and widen the Audit window in order to view more columns
	215	8	13	213	provide an Order By field to choose which variable to sort the audit table on
	217	9	12	219	add the ability to drill down into a spot on a microarray
	218	10	11	218	add an option to enter SAS code in a command line interface within SDS
	222	11	9	216	enable a user to open the application and the input engine objects from the Repository window

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<b>PART XXI SAS IT Resource Management</b>					
	197	1	18	222	allow the use of custom fonts and colors in ITRM via ODS
	218	2	11	224	increase the allowable number of analysis variables to 30 for an ITRM chart
	222	3	9	223	add the ability to bookmark reports in the QuickStart Gallery
<b>PART XXII Systems (General)</b>					
	32	1	148	225	provide confirmation during installation that each component is installed properly
<b>PART XXIII SAS System for Mainframes</b>					
<i>SAS System under z/OS</i>	101	1	69	226	enhance the LRECL= option of the INFILE/FILE statement to accept a value greater than 32760
<b>PART XXIV SAS System for PCs</b>					
	27	1	158	229	add options and support to wait for a locked data set to be freed before proceeding with a SAS program
	42	2	133	227	add a -sassavedfolder option to define where SAS programs are saved without regard to where they were opened
	44	3	132	228	return all available file information, including file size and modification date, for the FINFO() function
<b>PART XXV SAS System for UNIX</b>					
	36	1	144	230	add options and support to wait for a locked data set to be freed before proceeding with a SAS program

**Distribution of Respondent Job Functions:**

<b>43%</b>	Applications Programmer
<b>15%</b>	Manager/Staff End User Department
<b>4%</b>	Manager/Staff Information Center
<b>19%</b>	SAS Software Consultant
<b>10%</b>	SAS Software Representative
<b>5%</b>	SAS Software Training Coordinator
<b>39%</b>	Statistician
<b>25%</b>	Systems Analyst
<b>6%</b>	Systems Manager