

## Example 1: US College and University Graduation Data

1. Allison1.out: Mplus 6 Output for Listwise Analysis (N = 455)
2. Allison2.out: Mplus 6 Output for Direct ML Analysis (N = 1302) with ML standard errors
3. Allison3.out: Mplus 6 Output for Direct ML Analysis (N = 1,302) with robust standard errors
4. Allison4.out: Mplus 6 Output for Direct ML Analysis (N = 1,302) with bootstrap-based standard errors and bias-corrected confidence intervals

Mplus VERSION 6.1  
MUTHEN & MUTHEN  
11/10/2010 9:42 AM

INPUT INSTRUCTIONS

TITLE: Demo of direct ML estimation ;

DATA:

FILE is usnews1.txt ;

VARIABLE:

NAMES ARE csat act stufac gradrat rmb rd private lenroll ;  
MISSING ARE ALL (-999) ;  
USEVARIABLES ARE csat stufac gradrat rmb rd private lenroll ;  
AUXILIARY ARE act ;

ANALYSIS:

TYPE = GENERAL ;

MODEL:

gradrat ON csat stufac rmb rd private lenroll ;

OUTPUT:

patterns sampstat standardized cinterval ;

\*\*\* WARNING

Data set contains cases with missing on x-variables.

These cases were not included in the analysis.

Number of cases with missing on x-variables: 826

\*\*\* WARNING

Data set contains cases with missing on all variables except

x-variables. These cases were not included in the analysis.

Number of cases with missing on all variables except x-variables: 21

2 WARNING(S) FOUND IN THE INPUT INSTRUCTIONS

Demo of direct ML estimation ;

SUMMARY OF ANALYSIS

Number of groups	1
Number of observations	455
Number of dependent variables	1
Number of independent variables	5
Number of continuous latent variables	0

Observed dependent variables

Continuous  
GRADRAT

Observed independent variables

CSAT STUFAC RMB RD PRIVATE LENROLL

Observed auxiliary variables

ACT

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Estimator	ML
Information matrix	OBSERVED
Maximum number of iterations	1000
Convergence criterion	0.500D-04
Maximum number of steepest descent iterations	20
Maximum number of iterations for H1	2000
Convergence criterion for H1	0.100D-03

Input data file(s)  
usnews1.txt

Input data format FREE

SUMMARY OF DATA

Number of missing data patterns 1

SUMMARY OF MISSING DATA PATTERNS

MISSING DATA PATTERNS (x = not missing)

	1
GRADRAT	x
CSAT	x
STUFAC	x
RMBRD	x
PRIVATE	x
LENROLL	x

MISSING DATA PATTERN FREQUENCIES

Pattern	Frequency
1	455

COVARIANCE COVERAGE OF DATA

Minimum covariance coverage value 0.100

PROPORTION OF DATA PRESENT

	Covariance Coverage				
	GRADRAT	CSAT	STUFAC	RMBRD	PRIVATE
GRADRAT	1.000				
CSAT	1.000	1.000			
STUFAC	1.000	1.000	1.000		
RMBRD	1.000	1.000	1.000	1.000	
PRIVATE	1.000	1.000	1.000	1.000	1.000
LENROLL	1.000	1.000	1.000	1.000	1.000

	Covariance Coverage	
	LENROLL	
LENROLL	1.000	

SAMPLE STATISTICS

ESTIMATED SAMPLE STATISTICS

Means		GRADRAT	CSAT	STUFAC	RMBRD	PRIVATE
1		<u>63.385</u>	<u>984.187</u>	<u>14.667</u>	<u>4.418</u>	<u>0.690</u>

Means		LENROLL
1		<u>6.239</u>

Covariances		GRADRAT	CSAT	STUFAC	RMBRD	PRIVATE
GRADRAT		<u>355.445</u>				
CSAT		1415.108	<u>15778.767</u>			
STUFAC		-31.690	-236.764	<u>30.288</u>		
RMBRD		9.169	62.059	-1.512	<u>1.167</u>	
PRIVATE		3.460	9.902	-0.803	0.176	<u>0.214</u>
LENROLL		0.026	23.073	0.887	-0.041	<u>-0.244</u>

Covariances		LENROLL
LENROLL		<u>0.824</u>

Correlations		GRADRAT	CSAT	STUFAC	RMBRD	PRIVATE
GRADRAT		<u>1.000</u>				
CSAT		0.598	<u>1.000</u>			
STUFAC		-0.305	-0.342	<u>1.000</u>		
RMBRD		0.450	0.457	-0.254	<u>1.000</u>	
PRIVATE		0.397	0.170	-0.316	0.351	<u>1.000</u>
LENROLL		0.002	0.202	0.178	-0.042	<u>-0.582</u>

Correlations		LENROLL
LENROLL		<u>1.000</u>

MAXIMUM LOG-LIKELIHOOD VALUE FOR THE UNRESTRICTED (H1) MODEL IS -7418.437

THE MODEL ESTIMATION TERMINATED NORMALLY

MODEL FIT INFORMATION

Number of Free Parameters 7

Loglikelihood

H0 Value	-1838.653
H1 Value	-1838.653

Information Criteria

Akaike (AIC)	3691.305
Bayesian (BIC)	3720.148
Sample-Size Adjusted BIC	3697.932
(n* = (n + 2) / 24)	

Chi-Square Test of Model Fit

Value	0.000
Degrees of Freedom	0
P-Value	0.0000

RMSEA (Root Mean Square Error Of Approximation)

Estimate	0.000	
90 Percent C.I.	0.000	0.000
Probability RMSEA <= .05	0.000	

CFI/TLI

CFI	1.000
TLI	1.000

Chi-Square Test of Model Fit for the Baseline Model

Value	286.313
Degrees of Freedom	5
P-Value	0.0000

SRMR (Standardized Root Mean Square Residual)

Value	0.000
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MODEL RESULTS

	Estimate	S.E.	Est./S.E.	Two-Tailed P-Value
GRADRAT ON				
CSAT	0.067	0.006	10.539	0.000
STUFAC	-0.123	0.131	-0.939	0.347
RMBRD	2.161	0.709	3.049	0.002
PRIVATE	13.588	1.933	7.029	0.000
LENROLL	2.416	0.953	2.536	0.011
Intercepts				
GRADRAT	-35.024	7.634	-4.588	0.000
Residual Variances				
GRADRAT	189.445	12.560	15.083	0.000

STANDARDIZED MODEL RESULTS

STDYX Standardization

	Estimate	S.E.	Est./S.E.	Two-Tailed P-Value
GRADRAT ON				
CSAT	0.448	0.040	11.129	0.000
STUFAC	-0.036	0.038	-0.940	0.347
RMBRD	0.124	0.041	3.057	0.002
PRIVATE	0.333	0.047	7.116	0.000
LENROLL	0.116	0.046	2.538	0.011
Intercepts				
GRADRAT	-1.858	0.381	-4.878	0.000
Residual Variances				
GRADRAT	0.533	0.034	15.607	0.000

STDY Standardization

	Estimate	S.E.	Est./S.E.	Two-Tailed P-Value
GRADRAT ON				
CSAT	0.004	0.000	11.352	0.000
STUFAC	-0.007	0.007	-0.940	0.347
RMBRD	0.115	0.037	3.067	0.002
PRIVATE	0.721	0.099	7.255	0.000
LENROLL	0.128	0.050	2.547	0.011
Intercepts				
GRADRAT	-1.858	0.381	-4.878	0.000
Residual Variances				
GRADRAT	0.533	0.034	15.607	0.000

STD Standardization

	Estimate	S.E.	Est./S.E.	Two-Tailed P-Value
GRADRAT ON				
CSAT	0.067	0.006	10.539	0.000
STUFAC	-0.123	0.131	-0.939	0.347
RMBRD	2.161	0.709	3.049	0.002
PRIVATE	13.588	1.933	7.029	0.000
LENROLL	2.416	0.953	2.536	0.011
Intercepts				
GRADRAT	-35.024	7.634	-4.588	0.000
Residual Variances				
GRADRAT	189.445	12.560	15.083	0.000

R-SQUARE

Observed Variable	Estimate	S.E.	Est./S.E.	Two-Tailed P-Value
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GRADRAT                    0.467            0.034            13.675            0.000

QUALITY OF NUMERICAL RESULTS

Condition Number for the Information Matrix                    0.579E-06  
 (ratio of smallest to largest eigenvalue)

CONFIDENCE INTERVALS OF MODEL RESULTS

	Lower .5%	Lower 2.5%	Lower 5%	Estimate	Upper 5%	Upper 2.5%
Upper .5%						
GRADRAT ON						
CSAT	0.051	0.055	0.057	0.067	0.078	0.080
0.084						
STUFAC	-0.461	-0.380	-0.339	-0.123	0.092	0.134
0.214						
RMBRD	0.335	0.772	0.995	2.161	3.327	3.551
3.987						
PRIVATE	8.608	9.799	10.408	13.588	16.768	17.377
18.568						
LENROLL	-0.037	0.549	0.849	2.416	3.984	4.284
4.870						
Intercepts						
GRADRAT	-54.687	-49.986	-47.581	-35.024	-22.466	-20.062
-15.361						
Residual Variances						
GRADRAT	157.093	164.827	168.784	189.445	210.106	214.062
221.796						

CONFIDENCE INTERVALS OF STANDARDIZED MODEL RESULTS

STDYX Standardization

	Lower .5%	Lower 2.5%	Lower 5%	Estimate	Upper 5%	Upper 2.5%
Upper .5%						
GRADRAT ON						
CSAT	0.344	0.369	0.382	0.448	0.514	0.527
0.552						
STUFAC	-0.134	-0.111	-0.099	-0.036	0.027	0.039
0.063						
RMBRD	0.019	0.044	0.057	0.124	0.190	0.203
0.228						
PRIVATE	0.213	0.241	0.256	0.333	0.410	0.425
0.454						
LENROLL	-0.002	0.026	0.041	0.116	0.192	0.206
0.234						
Intercepts						
GRADRAT	-2.839	-2.604	-2.484	-1.858	-1.231	-1.111
-0.877						
Residual Variances						
GRADRAT	0.445	0.466	0.477	0.533	0.589	0.600
0.621						

STDY Standardization

	Lower .5%	Lower 2.5%	Lower 5%	Estimate	Upper 5%	Upper 2.5%
Upper .5%						
GRADRAT ON						
CSAT	0.003	0.003	0.003	0.004	0.004	0.004
0.004						
STUFAC	-0.024	-0.020	-0.018	-0.007	0.005	0.007
0.011						
RMBRD	0.018	0.041	0.053	0.115	0.176	0.188
0.211						
PRIVATE	0.465	0.526	0.557	0.721	0.884	0.915
0.977						
LENROLL	-0.001	0.030	0.045	0.128	0.211	0.227
0.258						
Intercepts						
GRADRAT	-2.839	-2.604	-2.484	-1.858	-1.231	-1.111
-0.877						
Residual Variances						
GRADRAT	0.445	0.466	0.477	0.533	0.589	0.600
0.621						

STD Standardization

	Lower .5%	Lower 2.5%	Lower 5%	Estimate	Upper 5%	Upper 2.5%
Upper .5%						
GRADRAT ON						
CSAT	0.051	0.055	0.057	0.067	0.078	0.080
0.084						
STUFAC	-0.461	-0.380	-0.339	-0.123	0.092	0.134
0.214						
RMBRD	0.335	0.772	0.995	2.161	3.327	3.551
3.987						
PRIVATE	8.608	9.799	10.408	13.588	16.768	17.377
18.568						
LENROLL	-0.037	0.549	0.849	2.416	3.984	4.284
4.870						
Intercepts						
GRADRAT	-54.687	-49.986	-47.581	-35.024	-22.466	-20.062
-15.361						
Residual Variances						
GRADRAT	157.093	164.827	168.784	189.445	210.106	214.062
221.796						

Beginning Time: 09:42:05  
 Ending Time: 09:42:05  
 Elapsed Time: 00:00:00

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Mplus VERSION 6.1  
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11/10/2010 9:42 AM

INPUT INSTRUCTIONS

TITLE: Demo of direct ML estimation ;

DATA:

FILE is usnews1.txt ;

VARIABLE:

NAMES ARE csat act stufac gradrat rmbird private lenroll ;  
MISSING ARE ALL (-999) ;  
USEVARIABLES ARE csat stufac gradrat rmbird private lenroll ;  
AUXILIARY ARE act ;

ANALYSIS:

TYPE = GENERAL ;

MODEL:

gradrat ON csat stufac rmbird private lenroll ;

! Referring to the variables' names below means  
! Mplus will estimate their variances, which brings  
! them into the model and invokes full-information  
! maximum likelihood estimation for all 1,302 cases

csat ;  
stufac ;  
rmbird ;  
lenroll ;

! Note that the variable "private" is not listed above  
! That is because private has no missing data, so we  
! don't have to list it

OUTPUT:

patterns sampstat standardized cinterval ;

INPUT READING TERMINATED NORMALLY

Demo of direct ML estimation ;

SUMMARY OF ANALYSIS

Number of groups	1
Number of observations	1302
Number of dependent variables	1
Number of independent variables	5
Number of continuous latent variables	0

Observed dependent variables

Continuous  
GRADRAT

Observed independent variables

CSAT STUFAC RMBRD PRIVATE LENROLL

Observed auxiliary variables  
ACT

Estimator ML  
 Information matrix OBSERVED  
 Maximum number of iterations 1000  
 Convergence criterion 0.500D-04  
 Maximum number of steepest descent iterations 20  
 Maximum number of iterations for H1 2000  
 Convergence criterion for H1 0.100D-03

Input data file(s)  
usnews1.txt

Input data format FREE

SUMMARY OF DATA

Number of missing data patterns 14

SUMMARY OF MISSING DATA PATTERNS

MISSING DATA PATTERNS (x = not missing)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
GRADRAT	x	x	x	x	x	x								
CSAT	x	x					x	x	x	x				
STUFAC	x	x	x	x	x	x	x	x	x		x	x	x	
RMBRD	x		x	x			x				x			
LENROLL	x	x	x		x		x	x			x	x		x
PRIVATE	x	x	x	x	x	x	x	x	x	x	x	x	x	x

MISSING DATA PATTERN FREQUENCIES

Pattern	Frequency	Pattern	Frequency	Pattern	Frequency
1	455	6	1	11	27
2	277	7	21	12	22
3	279	8	24	13	1
4	1	9	1	14	1
5	191	10	1		

COVARIANCE COVERAGE OF DATA

Minimum covariance coverage value 0.100

PROPORTION OF DATA PRESENT

	Covariance Coverage				
	GRADRAT	CSAT	STUFAC	RMBRD	LENROLL
GRADRAT	0.925				
CSAT	0.562	0.598			
STUFAC	0.925	0.598	0.998		

RMBRD	0.565	0.366	0.601	0.601	
LENROLL	0.923	0.597	0.995	0.601	0.996
PRIVATE	0.925	0.598	0.998	0.601	0.996

Covariance Coverage  
PRIVATE

PRIVATE	1.000
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SAMPLE STATISTICS

ESTIMATED SAMPLE STATISTICS

Means

	GRADRAT	CSAT	STUFAC	RMBRD	LENROLL
1	59.917	958.964	14.863	4.078	6.169

Means

	PRIVATE
1	0.639

Covariances

	GRADRAT	CSAT	STUFAC	RMBRD	LENROLL
GRADRAT	355.429				
CSAT	1390.974	15505.577			
STUFAC	-31.057	-197.351	26.883		
RMBRD	10.424	68.900	-1.687	1.331	
LENROLL	-0.507	23.222	1.380	-0.023	0.993
PRIVATE	3.612	9.481	-0.915	0.191	-0.296

Covariances

	PRIVATE
PRIVATE	0.231

Correlations

	GRADRAT	CSAT	STUFAC	RMBRD	LENROLL
GRADRAT	1.000				
CSAT	0.593	1.000			
STUFAC	-0.318	-0.306	1.000		
RMBRD	0.479	0.480	-0.282	1.000	
LENROLL	-0.027	0.187	0.267	-0.020	1.000
PRIVATE	0.399	0.159	-0.367	0.344	-0.619

Correlations

	PRIVATE
PRIVATE	1.000

MAXIMUM LOG-LIKELIHOOD VALUE FOR THE UNRESTRICTED (H1) MODEL IS -17079.344

THE MODEL ESTIMATION TERMINATED NORMALLY

MODEL FIT INFORMATION

Number of Free Parameters 21

Loglikelihood

H0 Value -16627.226  
H1 Value -16186.739

Information Criteria

Akaike (AIC) 33296.452  
Bayesian (BIC) 33405.057  
Sample-Size Adjusted BIC 33338.350  
( $n^* = (n + 2) / 24$ )

Chi-Square Test of Model Fit

Value 880.974  
Degrees of Freedom 4  
P-Value 0.0000

RMSEA (Root Mean Square Error Of Approximation)

Estimate 0.410  
90 Percent C.I. 0.388 0.433  
Probability RMSEA <= .05 0.000

CFI/TLI

CFI 0.000  
TLI -0.714

Chi-Square Test of Model Fit for the Baseline Model

Value 644.686  
Degrees of Freedom 5  
P-Value 0.0000

SRMR (Standardized Root Mean Square Residual)

Value 0.168

MODEL RESULTS

	Estimate	S.E.	Est./S.E.	Two-Tailed P-Value
GRADRAT ON				
CSAT	0.065	0.005	12.999	0.000
STUFAC	-0.187	0.102	-1.824	0.068
RMBRD	2.123	0.572	3.714	0.000
PRIVATE	15.275	1.239	12.327	0.000
LENROLL	2.813	0.589	4.772	0.000

STUFAC WITH					
CSAT	-192.754	21.108	-9.132	0.000	
RMBRD WITH					
CSAT	69.965	6.008	11.645	0.000	
STUFAC	-1.716	0.198	-8.657	0.000	
LENROLL WITH					
CSAT	24.025	4.074	5.897	0.000	
STUFAC	1.382	0.148	9.308	0.000	
RMBRD	-0.029	0.043	-0.670	0.503	
Means					
CSAT	959.616	4.109	233.516	0.000	
STUFAC	14.860	0.144	103.357	0.000	
RMBRD	4.111	0.039	104.105	0.000	
LENROLL	6.167	0.028	222.912	0.000	
Intercepts					
GRADRAT	-35.060	5.126	-6.839	0.000	
Variances					
CSAT	15479.662	764.804	20.240	0.000	
STUFAC	26.876	1.054	25.497	0.000	
RMBRD	1.344	0.066	20.218	0.000	
LENROLL	0.993	0.039	25.473	0.000	
Residual Variances					
GRADRAT	187.726	8.618	21.783	0.000	

STANDARDIZED MODEL RESULTS

STDYX Standardization

	Estimate	S.E.	Est./S.E.	Two-Tailed P-Value
GRADRAT ON				
CSAT	0.427	0.033	12.942	0.000
STUFAC	-0.052	0.028	-1.819	0.069
RMBRD	0.131	0.036	3.667	0.000
PRIVATE	0.390	0.029	13.642	0.000
LENROLL	0.149	0.030	4.953	0.000
STUFAC WITH				
CSAT	-0.299	0.029	-10.330	0.000
RMBRD WITH				
CSAT	0.485	0.032	15.297	0.000
STUFAC	-0.285	0.030	-9.638	0.000
LENROLL WITH				
CSAT	0.194	0.031	6.180	0.000
STUFAC	0.267	0.026	10.375	0.000
RMBRD	-0.025	0.037	-0.671	0.502
Means				
CSAT	7.713	0.196	39.405	0.000
STUFAC	2.866	0.063	45.737	0.000
RMBRD	3.546	0.095	37.293	0.000

LENROLL	6.188	0.125	49.662	0.000
Intercepts				
GRADRAT	-1.866	0.252	-7.419	0.000
Variances				
CSAT	1.000	0.000	999.000	999.000
STUFAC	1.000	0.000	999.000	999.000
RMBRD	1.000	0.000	999.000	999.000
LENROLL	1.000	0.000	999.000	999.000
Residual Variances				
GRADRAT	0.532	0.024	22.462	0.000

STDY Standardization

	Estimate	S.E.	Est./S.E.	Two-Tailed P-Value
GRADRAT ON				
CSAT	0.427	0.033	12.942	0.000
STUFAC	-0.052	0.028	-1.819	0.069
RMBRD	0.131	0.036	3.667	0.000
PRIVATE	0.813	0.058	13.994	0.000
LENROLL	0.149	0.030	4.953	0.000
STUFAC WITH				
CSAT	-0.299	0.029	-10.330	0.000
RMBRD WITH				
CSAT	0.485	0.032	15.297	0.000
STUFAC	-0.285	0.030	-9.638	0.000
LENROLL WITH				
CSAT	0.194	0.031	6.180	0.000
STUFAC	0.267	0.026	10.375	0.000
RMBRD	-0.025	0.037	-0.671	0.502
Means				
CSAT	7.713	0.196	39.405	0.000
STUFAC	2.866	0.063	45.737	0.000
RMBRD	3.546	0.095	37.293	0.000
LENROLL	6.188	0.125	49.662	0.000
Intercepts				
GRADRAT	-1.866	0.252	-7.419	0.000
Variances				
CSAT	1.000	0.000	999.000	999.000
STUFAC	1.000	0.000	999.000	999.000
RMBRD	1.000	0.000	999.000	999.000
LENROLL	1.000	0.000	999.000	999.000
Residual Variances				
GRADRAT	0.532	0.024	22.462	0.000

STD Standardization

	Estimate	S.E.	Est./S.E.	Two-Tailed P-Value
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GRADRAT ON					
CSAT	0.065	0.005	12.999	0.000	
STUFAC	-0.187	0.102	-1.824	0.068	
RMBRD	2.123	0.572	3.714	0.000	
PRIVATE	15.275	1.239	12.327	0.000	
LENROLL	2.813	0.589	4.772	0.000	
STUFAC WITH					
CSAT	-192.754	21.108	-9.132	0.000	
RMBRD WITH					
CSAT	69.965	6.008	11.645	0.000	
STUFAC	-1.716	0.198	-8.657	0.000	
LENROLL WITH					
CSAT	24.025	4.074	5.897	0.000	
STUFAC	1.382	0.148	9.308	0.000	
RMBRD	-0.029	0.043	-0.670	0.503	
Means					
CSAT	959.616	4.109	233.516	0.000	
STUFAC	14.860	0.144	103.357	0.000	
RMBRD	4.111	0.039	104.105	0.000	
LENROLL	6.167	0.028	222.912	0.000	
Intercepts					
GRADRAT	-35.060	5.126	-6.839	0.000	
Variances					
CSAT	15479.662	764.804	20.240	0.000	
STUFAC	26.876	1.054	25.497	0.000	
RMBRD	1.344	0.066	20.218	0.000	
LENROLL	0.993	0.039	25.473	0.000	
Residual Variances					
GRADRAT	187.726	8.618	21.783	0.000	

R-SQUARE

Observed Variable	Estimate	S.E.	Est./S.E.	Two-Tailed P-Value
GRADRAT	0.468	0.024	19.770	0.000

QUALITY OF NUMERICAL RESULTS

Condition Number for the Information Matrix (ratio of smallest to largest eigenvalue) 0.618E-06

CONFIDENCE INTERVALS OF MODEL RESULTS

	Lower .5%	Lower 2.5%	Lower 5%	Estimate	Upper 5%	Upper 2.5%
Upper .5%						
GRADRAT ON						
CSAT	0.052	0.055	0.056	0.065	0.073	0.074
0.077						
STUFAC	-0.451	-0.388	-0.356	-0.187	-0.018	0.014
0.077						
RMBRD	0.650	1.002	1.183	2.123	3.063	3.243



3.595							
PRIVATE	12.083	12.846	13.236	15.275	17.313	17.703	
18.466							
LENROLL	1.295	1.657	1.843	2.813	3.782	3.968	
4.331							
STUFAC WITH							
CSAT	-247.123	-234.125	-227.476	-192.754	-158.032	-151.383	
-138.384							
RMBRD WITH							
CSAT	54.489	58.189	60.081	69.965	79.849	81.741	
85.441							
STUFAC	-2.226	-2.104	-2.042	-1.716	-1.390	-1.327	
-1.205							
LENROLL WITH							
CSAT	13.532	16.040	17.324	24.025	30.727	32.010	
34.519							
STUFAC	0.999	1.091	1.138	1.382	1.626	1.673	
1.764							
RMBRD	-0.138	-0.112	-0.098	-0.029	0.041	0.055	
0.081							
Means							
CSAT	949.031	951.561	952.856	959.616	966.376	967.670	
970.201							
STUFAC	14.490	14.578	14.624	14.860	15.097	15.142	
15.230							
RMBRD	4.009	4.034	4.046	4.111	4.176	4.189	
4.213							
LENROLL	6.096	6.113	6.122	6.167	6.213	6.222	
6.239							
Intercepts							
GRADRAT	-48.264	-45.107	-43.492	-35.060	-26.627	-25.012	
-21.855							
Variances							
CSAT	13509.680	13980.646	14221.560	15479.662	16737.766	16978.678	1
7449.645							
STUFAC	24.161	24.810	25.142	26.876	28.610	28.942	
29.591							
RMBRD	1.173	1.214	1.235	1.344	1.453	1.474	
1.515							
LENROLL	0.893	0.917	0.929	0.993	1.057	1.070	
1.094							
Residual Variances							
GRADRAT	165.528	170.835	173.549	187.726	201.902	204.617	
209.924							

CONFIDENCE INTERVALS OF STANDARDIZED MODEL RESULTS

STDYX Standardization

	Lower .5%	Lower 2.5%	Lower 5%	Estimate	Upper 5%	Upper 2.5%
Upper .5%						
GRADRAT ON						
CSAT	0.342	0.363	0.373	0.427	0.482	0.492

0.512							
STUFAC	-0.125	-0.107	-0.098	-0.052	-0.005	0.004	
0.021							
RMBRD	0.039	0.061	0.072	0.131	0.190	0.201	
0.223							
PRIVATE	0.317	0.334	0.343	0.390	0.438	0.447	
0.464							
LENROLL	0.072	0.090	0.100	0.149	0.199	0.208	
0.227							
STUFAC WITH							
CSAT	-0.373	-0.356	-0.346	-0.299	-0.251	-0.242	
-0.224							
RMBRD WITH							
CSAT	0.403	0.423	0.433	0.485	0.537	0.547	
0.567							
STUFAC	-0.362	-0.344	-0.334	-0.285	-0.237	-0.227	
-0.209							
LENROLL WITH							
CSAT	0.113	0.132	0.142	0.194	0.245	0.255	
0.275							
STUFAC	0.201	0.217	0.225	0.267	0.310	0.318	
0.334							
RMBRD	-0.119	-0.097	-0.085	-0.025	0.036	0.047	
0.070							
Means							
CSAT	7.209	7.329	7.391	7.713	8.035	8.097	
8.217							
STUFAC	2.705	2.744	2.763	2.866	2.970	2.989	
3.028							
RMBRD	3.301	3.360	3.390	3.546	3.703	3.733	
3.791							
LENROLL	5.867	5.944	5.983	6.188	6.393	6.432	
6.509							
Intercepts							
GRADRAT	-2.514	-2.359	-2.280	-1.866	-1.452	-1.373	
-1.218							
Variances							
CSAT	1.000	1.000	1.000	1.000	1.000	1.000	
1.000							
STUFAC	1.000	1.000	1.000	1.000	1.000	1.000	
1.000							
RMBRD	1.000	1.000	1.000	1.000	1.000	1.000	
1.000							
LENROLL	1.000	1.000	1.000	1.000	1.000	1.000	
1.000							
Residual Variances							
GRADRAT	0.471	0.485	0.493	0.532	0.571	0.578	
0.593							

STDY Standardization

	Lower .5%	Lower 2.5%	Lower 5%	Estimate	Upper 5%	Upper 2.5%
Upper .5%						
GRADRAT ON						

CSAT	0.342	0.363	0.373	0.427	0.482	0.492
0.512						
STUFAC	-0.125	-0.107	-0.098	-0.052	-0.005	0.004
0.021						
RMBRD	0.039	0.061	0.072	0.131	0.190	0.201
0.223						
PRIVATE	0.663	0.699	0.717	0.813	0.909	0.927
0.963						
LENROLL	0.072	0.090	0.100	0.149	0.199	0.208
0.227						
STUFAC WITH						
CSAT	-0.373	-0.356	-0.346	-0.299	-0.251	-0.242
-0.224						
RMBRD WITH						
CSAT	0.403	0.423	0.433	0.485	0.537	0.547
0.567						
STUFAC	-0.362	-0.344	-0.334	-0.285	-0.237	-0.227
-0.209						
LENROLL WITH						
CSAT	0.113	0.132	0.142	0.194	0.245	0.255
0.275						
STUFAC	0.201	0.217	0.225	0.267	0.310	0.318
0.334						
RMBRD	-0.119	-0.097	-0.085	-0.025	0.036	0.047
0.070						
Means						
CSAT	7.209	7.329	7.391	7.713	8.035	8.097
8.217						
STUFAC	2.705	2.744	2.763	2.866	2.970	2.989
3.028						
RMBRD	3.301	3.360	3.390	3.546	3.703	3.733
3.791						
LENROLL	5.867	5.944	5.983	6.188	6.393	6.432
6.509						
Intercepts						
GRADRAT	-2.514	-2.359	-2.280	-1.866	-1.452	-1.373
-1.218						
Variances						
CSAT	1.000	1.000	1.000	1.000	1.000	1.000
1.000						
STUFAC	1.000	1.000	1.000	1.000	1.000	1.000
1.000						
RMBRD	1.000	1.000	1.000	1.000	1.000	1.000
1.000						
LENROLL	1.000	1.000	1.000	1.000	1.000	1.000
1.000						
Residual Variances						
GRADRAT	0.471	0.485	0.493	0.532	0.571	0.578
0.593						

STD Standardization

	Lower .5%	Lower 2.5%	Lower 5%	Estimate	Upper 5%	Upper 2.5%
Upper .5%						

GRADRAT ON							
CSAT	0.052	0.055	0.056	0.065	0.073	0.074	
0.077							
STUFAC	-0.451	-0.388	-0.356	-0.187	-0.018	0.014	
0.077							
RMBRD	0.650	1.002	1.183	2.123	3.063	3.243	
3.595							
PRIVATE	12.083	12.846	13.236	15.275	17.313	17.703	
18.466							
LENROLL	1.295	1.657	1.843	2.813	3.782	3.968	
4.331							
STUFAC WITH							
CSAT	-247.123	-234.125	-227.476	-192.754	-158.032	-151.383	
-138.384							
RMBRD WITH							
CSAT	54.489	58.189	60.081	69.965	79.849	81.741	
85.441							
STUFAC	-2.226	-2.104	-2.042	-1.716	-1.390	-1.327	
-1.205							
LENROLL WITH							
CSAT	13.532	16.040	17.324	24.025	30.727	32.010	
34.519							
STUFAC	0.999	1.091	1.138	1.382	1.626	1.673	
1.764							
RMBRD	-0.138	-0.112	-0.098	-0.029	0.041	0.055	
0.081							
Means							
CSAT	949.031	951.561	952.856	959.616	966.376	967.670	
970.201							
STUFAC	14.490	14.578	14.624	14.860	15.097	15.142	
15.230							
RMBRD	4.009	4.034	4.046	4.111	4.176	4.189	
4.213							
LENROLL	6.096	6.113	6.122	6.167	6.213	6.222	
6.239							
Intercepts							
GRADRAT	-48.264	-45.107	-43.492	-35.060	-26.627	-25.012	
-21.855							
Variances							
CSAT	13509.680	13980.646	14221.560	15479.662	16737.766	16978.678	1
7449.645							
STUFAC	24.161	24.810	25.142	26.876	28.610	28.942	
29.591							
RMBRD	1.173	1.214	1.235	1.344	1.453	1.474	
1.515							
LENROLL	0.893	0.917	0.929	0.993	1.057	1.070	
1.094							
Residual Variances							
GRADRAT	165.528	170.835	173.549	187.726	201.902	204.617	
209.924							

Beginning Time: 09:42:12  
 Ending Time: 09:42:13  
 Elapsed Time: 00:00:01

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Mplus VERSION 6.1  
MUTHEN & MUTHEN  
11/10/2010 9:42 AM

INPUT INSTRUCTIONS

TITLE: Demo of direct ML estimation with robust standard errors ;

DATA:

FILE is usnews1.txt ;

VARIABLE:

NAMES ARE csat act stufac gradrat rmbrd private lenroll ;  
MISSING ARE ALL (-999) ;  
USEVARIABLES ARE csat stufac gradrat rmbrd private lenroll ;  
AUXILIARY ARE act ;

ANALYSIS:

TYPE = GENERAL ;  
ESTIMATOR = MLR ; ! Invokes robust "sandwich" standard errors

MODEL:

gradrat ON csat stufac rmbrd private lenroll ;  
  
csat ;  
stufac ;  
rmbrd ;  
lenroll ;

OUTPUT:

patterns sampstat standardized ;

INPUT READING TERMINATED NORMALLY

Demo of direct ML estimation with robust standard errors ;

SUMMARY OF ANALYSIS

Number of groups	1
Number of observations	1302
Number of dependent variables	1
Number of independent variables	5
Number of continuous latent variables	0

Observed dependent variables

Continuous  
GRADRAT

Observed independent variables

CSAT STUFAC RMBRD PRIVATE LENROLL

Observed auxiliary variables

ACT

Estimator	MLR
Information matrix	OBSERVED

Maximum number of iterations 1000  
 Convergence criterion 0.500D-04  
 Maximum number of steepest descent iterations 20  
 Maximum number of iterations for H1 2000  
 Convergence criterion for H1 0.100D-03

Input data file(s)  
 usnews1.txt

Input data format FREE

SUMMARY OF DATA

Number of missing data patterns 14

SUMMARY OF MISSING DATA PATTERNS

MISSING DATA PATTERNS (x = not missing)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
GRADRAT	x	x	x	x	x	x								
CSAT	x	x					x	x	x	x				
STUFAC	x	x	x	x	x	x	x	x	x		x	x	x	
RMBRD	x		x	x			x				x			
LENROLL	x	x	x		x		x	x			x	x		x
PRIVATE	x	x	x	x	x	x	x	x	x	x	x	x	x	x

MISSING DATA PATTERN FREQUENCIES

Pattern	Frequency	Pattern	Frequency	Pattern	Frequency
1	455	6	1	11	27
2	277	7	21	12	22
3	279	8	24	13	1
4	1	9	1	14	1
5	191	10	1		

COVARIANCE COVERAGE OF DATA

Minimum covariance coverage value 0.100

PROPORTION OF DATA PRESENT

	Covariance Coverage				
	GRADRAT	CSAT	STUFAC	RMBRD	LENROLL
GRADRAT	0.925				
CSAT	0.562	0.598			
STUFAC	0.925	0.598	0.998		
RMBRD	0.565	0.366	0.601	0.601	
LENROLL	0.923	0.597	0.995	0.601	0.996
PRIVATE	0.925	0.598	0.998	0.601	0.996

Covariance Coverage  
 PRIVATE

PRIVATE 1.000

SAMPLE STATISTICS

ESTIMATED SAMPLE STATISTICS

Means		GRADRAT	CSAT	STUFAC	RMBRD	LENROLL
1		59.917	958.964	14.863	4.078	6.169

Means		PRIVATE
1		0.639

Covariances		GRADRAT	CSAT	STUFAC	RMBRD	LENROLL
GRADRAT		355.429				
CSAT		1390.974	15505.577			
STUFAC		-31.057	-197.351	26.883		
RMBRD		10.424	68.900	-1.687	1.331	
LENROLL		-0.507	23.222	1.380	-0.023	0.993
PRIVATE		3.612	9.481	-0.915	0.191	-0.296

Covariances		PRIVATE
PRIVATE		0.231

Correlations		GRADRAT	CSAT	STUFAC	RMBRD	LENROLL
GRADRAT		1.000				
CSAT		0.593	1.000			
STUFAC		-0.318	-0.306	1.000		
RMBRD		0.479	0.480	-0.282	1.000	
LENROLL		-0.027	0.187	0.267	-0.020	1.000
PRIVATE		0.399	0.159	-0.367	0.344	-0.619

Correlations		PRIVATE
PRIVATE		1.000

MAXIMUM LOG-LIKELIHOOD VALUE FOR THE UNRESTRICTED (H1) MODEL IS -17079.344

THE MODEL ESTIMATION TERMINATED NORMALLY

MODEL FIT INFORMATION



Number of Free Parameters 21

Loglikelihood

H0 Value	-16627.226
H0 Scaling Correction Factor for MLR	3.001
H1 Value	-16186.739
H1 Scaling Correction Factor for MLR	2.772

Information Criteria

Akaike (AIC)	33296.452
Bayesian (BIC)	33405.057
Sample-Size Adjusted BIC ( $n^* = (n + 2) / 24$ )	33338.350

Chi-Square Test of Model Fit

Value	560.090*
Degrees of Freedom	4
P-Value	0.0000
Scaling Correction Factor for MLR	1.573

\* The chi-square value for MLM, MLMV, MLR, ULSMV, WLSM and WLSMV cannot be used for chi-square difference testing in the regular way. MLM, MLR and WLSM chi-square difference testing is described on the Mplus website. MLMV, WLSMV, and ULSMV difference testing is done using the DIFFTEST option.

RMSEA (Root Mean Square Error Of Approximation)

Estimate	0.327	
90 Percent C.I.	0.304	0.350
Probability RMSEA <= .05	0.000	

CFI/TLI

CFI	0.000
TLI	-0.284

Chi-Square Test of Model Fit for the Baseline Model

Value	546.568
Degrees of Freedom	5
P-Value	0.0000

SRMR (Standardized Root Mean Square Residual)

Value	0.168
-------	-------

MODEL RESULTS

	Estimate	S.E.	Est./S.E.	Two-Tailed P-Value
GRADRAT ON				
CSAT	0.065	0.005	12.125	0.000
STUFAC	-0.187	0.111	-1.688	0.091

RMBRD	2.123	0.622	3.416	0.001
PRIVATE	15.275	1.322	11.555	0.000
LENROLL	2.813	0.674	4.175	0.000
STUFAC WITH CSAT	-192.754	19.909	-9.682	0.000
RMBRD WITH CSAT	69.965	6.645	10.529	0.000
STUFAC	-1.716	0.204	-8.393	0.000
LENROLL WITH CSAT	24.025	3.677	6.533	0.000
STUFAC	1.382	0.135	10.239	0.000
RMBRD	-0.029	0.043	-0.663	0.507
Means				
CSAT	959.616	3.987	240.707	0.000
STUFAC	14.860	0.144	103.354	0.000
RMBRD	4.111	0.039	104.757	0.000
LENROLL	6.167	0.028	222.903	0.000
Intercepts				
GRADRAT	-35.060	5.166	-6.787	0.000
Variances				
CSAT	15479.662	895.976	17.277	0.000
STUFAC	26.876	5.370	5.005	0.000
RMBRD	1.344	0.069	19.522	0.000
LENROLL	0.993	0.036	27.351	0.000
Residual Variances				
GRADRAT	187.726	10.072	18.638	0.000

STANDARDIZED MODEL RESULTS

STDYX Standardization

	Estimate	S.E.	Est./S.E.	Two-Tailed P-Value
GRADRAT ON				
CSAT	0.427	0.038	11.184	0.000
STUFAC	-0.052	0.033	-1.552	0.121
RMBRD	0.131	0.038	3.443	0.001
PRIVATE	0.390	0.030	12.847	0.000
LENROLL	0.149	0.034	4.328	0.000
STUFAC WITH CSAT	-0.299	0.037	-8.162	0.000
RMBRD WITH CSAT	0.485	0.033	14.756	0.000
STUFAC	-0.285	0.052	-5.533	0.000
LENROLL WITH CSAT	0.194	0.029	6.743	0.000
STUFAC	0.267	0.042	6.318	0.000
RMBRD	-0.025	0.037	-0.664	0.507

Means

CSAT	7.713	0.220	35.079	0.000
STUFAC	2.866	0.271	10.570	0.000
RMBRD	3.546	0.085	41.649	0.000
LENROLL	6.188	0.115	53.685	0.000
Intercepts				
GRADRAT	-1.866	0.260	-7.184	0.000
Variances				
CSAT	1.000	0.000	999.000	999.000
STUFAC	1.000	0.000	999.000	999.000
RMBRD	1.000	0.000	999.000	999.000
LENROLL	1.000	0.000	999.000	999.000
Residual Variances				
GRADRAT	0.532	0.024	21.843	0.000

STDY Standardization

	Estimate	S.E.	Est./S.E.	Two-Tailed P-Value
GRADRAT ON				
CSAT	0.427	0.038	11.184	0.000
STUFAC	-0.052	0.033	-1.552	0.121
RMBRD	0.131	0.038	3.443	0.001
PRIVATE	0.813	0.063	12.895	0.000
LENROLL	0.149	0.034	4.328	0.000
STUFAC WITH				
CSAT	-0.299	0.037	-8.162	0.000
RMBRD WITH				
CSAT	0.485	0.033	14.756	0.000
STUFAC	-0.285	0.052	-5.533	0.000
LENROLL WITH				
CSAT	0.194	0.029	6.743	0.000
STUFAC	0.267	0.042	6.318	0.000
RMBRD	-0.025	0.037	-0.664	0.507
Means				
CSAT	7.713	0.220	35.079	0.000
STUFAC	2.866	0.271	10.570	0.000
RMBRD	3.546	0.085	41.649	0.000
LENROLL	6.188	0.115	53.685	0.000
Intercepts				
GRADRAT	-1.866	0.260	-7.184	0.000
Variances				
CSAT	1.000	0.000	999.000	999.000
STUFAC	1.000	0.000	999.000	999.000
RMBRD	1.000	0.000	999.000	999.000
LENROLL	1.000	0.000	999.000	999.000
Residual Variances				
GRADRAT	0.532	0.024	21.843	0.000

STD Standardization

	Estimate	S.E.	Est./S.E.	Two-Tailed P-Value
GRADRAT ON				
CSAT	0.065	0.005	12.125	0.000
STUFAC	-0.187	0.111	-1.688	0.091
RMBRD	2.123	0.622	3.416	0.001
PRIVATE	15.275	1.322	11.555	0.000
LENROLL	2.813	0.674	4.175	0.000
STUFAC WITH				
CSAT	-192.754	19.909	-9.682	0.000
RMBRD WITH				
CSAT	69.965	6.645	10.529	0.000
STUFAC	-1.716	0.204	-8.393	0.000
LENROLL WITH				
CSAT	24.025	3.677	6.533	0.000
STUFAC	1.382	0.135	10.239	0.000
RMBRD	-0.029	0.043	-0.663	0.507
Means				
CSAT	959.616	3.987	240.707	0.000
STUFAC	14.860	0.144	103.354	0.000
RMBRD	4.111	0.039	104.757	0.000
LENROLL	6.167	0.028	222.903	0.000
Intercepts				
GRADRAT	-35.060	5.166	-6.787	0.000
Variances				
CSAT	15479.662	895.976	17.277	0.000
STUFAC	26.876	5.370	5.005	0.000
RMBRD	1.344	0.069	19.522	0.000
LENROLL	0.993	0.036	27.351	0.000
Residual Variances				
GRADRAT	187.726	10.072	18.638	0.000

R-SQUARE

Observed Variable	Estimate	S.E.	Est./S.E.	Two-Tailed P-Value
GRADRAT	0.468	0.024	19.225	0.000

QUALITY OF NUMERICAL RESULTS

Condition Number for the Information Matrix (ratio of smallest to largest eigenvalue) 0.618E-06

Beginning Time: 09:42:20  
 Ending Time: 09:42:20  
 Elapsed Time: 00:00:00

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Mplus VERSION 6.1  
MUTHEN & MUTHEN  
11/10/2010 9:42 AM

INPUT INSTRUCTIONS

TITLE: Demo of direct ML estimation with bootstrap standard errors ;

DATA:

FILE is usnews1.txt ;

VARIABLE:

NAMES ARE csat act stufac gradrat rmb rd private lenroll ;  
MISSING ARE ALL (-999) ;  
USEVARIABLES ARE csat stufac gradrat rmb rd private lenroll ;  
AUXILIARY ARE act ;

ANALYSIS:

TYPE = GENERAL ;  
BOOTSTRAP = 5000 ; ! Invoke the bootstrap and generate bootstrap  
! based standard errors

MODEL:

gradrat ON csat stufac rmb rd private lenroll ;  
  
csat ;  
stufac ;  
rmb rd ;  
lenroll ;

! Request bootstrap-based asymmetric bias-corrected confidence intervals

OUTPUT:

patterns sampstat standardized cinterval(bcbootstrap) ;

INPUT READING TERMINATED NORMALLY

Demo of direct ML estimation with bootstrap standard errors ;

SUMMARY OF ANALYSIS

Number of groups	1
Number of observations	1302
Number of dependent variables	1
Number of independent variables	5
Number of continuous latent variables	0

Observed dependent variables

Continuous  
GRADRAT

Observed independent variables

CSAT STUFAC RMB RD PRIVATE LENROLL

Observed auxiliary variables

ACT

```

Estimator                               ML
Information matrix                       OBSERVED
Maximum number of iterations             1000
Convergence criterion                    0.500D-04
Maximum number of steepest descent iterations 20
Maximum number of iterations for H1      2000
Convergence criterion for H1            0.100D-03
Number of bootstrap draws
  Requested                             5000
  Completed                             5000

```

```

Input data file(s)
  usnews1.txt

```

```

Input data format  FREE

```

SUMMARY OF DATA

```

      Number of missing data patterns          14

```

SUMMARY OF MISSING DATA PATTERNS

MISSING DATA PATTERNS (x = not missing)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
GRADRAT	x	x	x	x	x	x								
CSAT	x	x					x	x	x	x				
STUFAC	x	x	x	x	x	x	x	x	x		x	x	x	
RMBRD	x		x	x			x				x			
LENROLL	x	x	x		x		x	x			x	x		x
PRIVATE	x	x	x	x	x	x	x	x	x	x	x	x	x	x

MISSING DATA PATTERN FREQUENCIES

Pattern	Frequency	Pattern	Frequency	Pattern	Frequency
1	455	6	1	11	27
2	277	7	21	12	22
3	279	8	24	13	1
4	1	9	1	14	1
5	191	10	1		

COVARIANCE COVERAGE OF DATA

```

Minimum covariance coverage value  0.100

```

PROPORTION OF DATA PRESENT

	Covariance Coverage				
	GRADRAT	CSAT	STUFAC	RMBRD	LENROLL
GRADRAT	0.925				
CSAT	0.562	0.598			
STUFAC	0.925	0.598	0.998		
RMBRD	0.565	0.366	0.601	0.601	
LENROLL	0.923	0.597	0.995	0.601	0.996

PRIVATE	0.925	0.598	0.998	0.601	0.996
---------	-------	-------	-------	-------	-------

Covariance Coverage  
PRIVATE

PRIVATE	1.000
---------	-------

SAMPLE STATISTICS

ESTIMATED SAMPLE STATISTICS

Means

	GRADRAT	CSAT	STUFAC	RMBRD	LENROLL
1	59.917	958.964	14.863	4.078	6.169

Means

	PRIVATE
1	0.639

Covariances

	GRADRAT	CSAT	STUFAC	RMBRD	LENROLL
GRADRAT	355.429				
CSAT	1390.974	15505.577			
STUFAC	-31.057	-197.351	26.883		
RMBRD	10.424	68.900	-1.687	1.331	
LENROLL	-0.507	23.222	1.380	-0.023	0.993
PRIVATE	3.612	9.481	-0.915	0.191	-0.296

Covariances

	PRIVATE
PRIVATE	0.231

Correlations

	GRADRAT	CSAT	STUFAC	RMBRD	LENROLL
GRADRAT	1.000				
CSAT	0.593	1.000			
STUFAC	-0.318	-0.306	1.000		
RMBRD	0.479	0.480	-0.282	1.000	
LENROLL	-0.027	0.187	0.267	-0.020	1.000
PRIVATE	0.399	0.159	-0.367	0.344	-0.619

Correlations

	PRIVATE
PRIVATE	1.000

MAXIMUM LOG-LIKELIHOOD VALUE FOR THE UNRESTRICTED (H1) MODEL IS -17079.344



THE MODEL ESTIMATION TERMINATED NORMALLY

MODEL FIT INFORMATION

Number of Free Parameters 21

Loglikelihood

H0 Value -16627.226  
 H1 Value -16186.739

Information Criteria

Akaike (AIC) 33296.452  
 Bayesian (BIC) 33405.057  
 Sample-Size Adjusted BIC 33338.350  
 (n\* = (n + 2) / 24)

Chi-Square Test of Model Fit

Value 880.974  
 Degrees of Freedom 4  
 P-Value 0.0000

RMSEA (Root Mean Square Error Of Approximation)

Estimate 0.410  
 90 Percent C.I. 0.388 0.433  
 Probability RMSEA <= .05 0.000

CFI/TLI

CFI 0.000  
 TLI -0.714

Chi-Square Test of Model Fit for the Baseline Model

Value 644.686  
 Degrees of Freedom 5  
 P-Value 0.0000

SRMR (Standardized Root Mean Square Residual)

Value 0.168

MODEL RESULTS

	Estimate	S.E.	Est./S.E.	Two-Tailed P-Value
GRADRAT ON				
CSAT	0.065	0.005	12.073	0.000
STUFAC	-0.187	0.129	-1.452	0.147
RMBRD	2.123	0.630	3.369	0.001
PRIVATE	15.275	1.337	11.421	0.000
LENROLL	2.813	0.687	4.096	0.000

STUFAC WITH

CSAT	-192.754	20.825	-9.256	0.000
RMBRD WITH				
CSAT	69.965	6.677	10.479	0.000
STUFAC	-1.716	0.208	-8.237	0.000
LENROLL WITH				
CSAT	24.025	3.757	6.394	0.000
STUFAC	1.382	0.134	10.329	0.000
RMBRD	-0.029	0.043	-0.670	0.503
Means				
CSAT	959.616	4.073	235.627	0.000
STUFAC	14.860	0.144	102.868	0.000
RMBRD	4.111	0.039	105.030	0.000
LENROLL	6.167	0.028	217.839	0.000
Intercepts				
GRADRAT	-35.060	5.307	-6.606	0.000
Variances				
CSAT	15479.662	897.982	17.238	0.000
STUFAC	26.876	5.414	4.964	0.000
RMBRD	1.344	0.069	19.460	0.000
LENROLL	0.993	0.036	27.511	0.000
Residual Variances				
GRADRAT	187.726	10.056	18.668	0.000

STANDARDIZED MODEL RESULTS

	StdYX Estimate	StdY Estimate	Std Estimate
GRADRAT ON			
CSAT	0.427	0.427	0.065
STUFAC	-0.052	-0.052	-0.187
RMBRD	0.131	0.131	2.123
PRIVATE	0.390	0.813	15.275
LENROLL	0.149	0.149	2.813
STUFAC WITH			
CSAT	-0.299	-0.299	-192.754
RMBRD WITH			
CSAT	0.485	0.485	69.965
STUFAC	-0.285	-0.285	-1.716
LENROLL WITH			
CSAT	0.194	0.194	24.025
STUFAC	0.267	0.267	1.382
RMBRD	-0.025	-0.025	-0.029
Means			
CSAT	7.713	7.713	959.616
STUFAC	2.866	2.866	14.860
RMBRD	3.546	3.546	4.111
LENROLL	6.188	6.188	6.167
Intercepts			
GRADRAT	-1.866	-1.866	-35.060

Variances			
CSAT	1.000	1.000	15479.662
STUFAC	1.000	1.000	26.876
RMBRD	1.000	1.000	1.344
LENROLL	1.000	1.000	0.993

Residual Variances			
GRADRAT	0.532	0.532	187.726

R-SQUARE

Observed Variable	Estimate
GRADRAT	0.468

CONFIDENCE INTERVALS OF MODEL RESULTS

	Lower .5%	Lower 2.5%	Lower 5%	Estimate	Upper 5%	Upper 2.5%
Upper .5%						
GRADRAT ON						
CSAT	0.051	0.054	0.056	0.065	0.073	0.075
0.078						
STUFAC	-0.478	-0.385	-0.356	-0.187	0.057	0.120
0.227						
RMBRD	0.380	0.876	1.081	2.123	3.119	3.347
3.720						
PRIVATE	11.724	12.641	13.035	15.275	17.480	17.945
18.679						
LENROLL	0.987	1.467	1.697	2.813	3.939	4.170
4.582						
STUFAC WITH						
CSAT	-247.492	-233.400	-226.387	-192.754	-158.313	-152.690
-142.229						
RMBRD WITH						
CSAT	53.076	57.425	59.438	69.965	81.379	83.445
87.663						
STUFAC	-2.318	-2.150	-2.066	-1.716	-1.391	-1.335
-1.220						
LENROLL WITH						
CSAT	13.901	16.739	17.798	24.025	30.236	31.432
33.477						
STUFAC	1.025	1.106	1.152	1.382	1.597	1.638
1.713						
RMBRD	-0.138	-0.112	-0.097	-0.029	0.042	0.056
0.084						
Means						
CSAT	948.524	951.533	952.960	959.616	966.320	967.758
970.405						
STUFAC	14.510	14.588	14.630	14.860	15.102	15.149
15.252						
RMBRD	4.016	4.037	4.048	4.111	4.176	4.190
4.212						
LENROLL	6.096	6.112	6.120	6.167	6.214	6.222
6.238						

Intercepts							
GRADRAT	-48.875	-45.292	-43.603	-35.060	-25.959	-24.325	
-21.127							
Variances							
CSAT	13293.960	13770.181	14065.698	15479.662	16970.277	17277.734	1
7909.047							
STUFAC	17.645	18.894	19.822	26.876	38.468	40.670	
44.827							
RMBRD	1.181	1.219	1.238	1.344	1.467	1.489	
1.536							
LENROLL	0.902	0.922	0.935	0.993	1.053	1.065	
1.086							
Residual Variances							
GRADRAT	163.225	168.953	172.074	187.726	204.818	208.225	
215.100							

Beginning Time: 09:42:30  
Ending Time: 09:42:57  
Elapsed Time: 00:00:27

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## **Example 2: Clustered Logistic Regression of Gay Couples Study Data**

1. HoffDemo1.out: Mplus 6 Output for Listwise Analysis (N = 955) with robust standard errors
2. HoffDemo2.out: Mplus 6 Output for Direct ML Analysis (N = 1166) with robust standard errors

Mplus VERSION 6.1  
MUTHEN & MUTHEN  
11/10/2010 9:38 AM

INPUT INSTRUCTIONS

TITLE: Clustered logistic regression ;

DATA:

FILE IS long\_demo.txt ;

VARIABLE:

NAMES ARE coupid couphiv crela non\_mono uaibin partner cesd age sais ;  
MISSING ARE ALL (-999) ;  
USEVARIABLES ARE crela non\_mono uaibin cesd age sais hivdisc hivpos ;  
CLUSTER IS coupid ; ! Identifies the cluster ID variable ;  
CATEGORICAL ARE uaibin ; ! Identifies ordinal or binary mediators or outcomes ;

! Create dummy variables to indicate couple HIV status ;

DEFINE:

IF (couphiv EQ 1) THEN hivdisc = 0 ;  
IF (couphiv EQ 2) THEN hivdisc = 1 ;  
IF (couphiv EQ 3) THEN hivdisc = 0 ;  
IF (couphiv EQ 1) THEN hivpos = 0 ;  
IF (couphiv EQ 2) THEN hivpos = 0 ;  
IF (couphiv EQ 3) THEN hivpos = 1 ;

! Analysis type is COMPLEX ;  
! MonteCarlo integration is required to estimate this model ;

ANALYSIS:

TYPE = COMPLEX ;  
ESTIMATOR = MLR ;  
ALGORITHM = integration ;  
INTEGRATION = montecarlo ;

MODEL:

uaibin ON hivdisc hivpos crela non\_mono cesd age sais ;

OUTPUT:

cinterval ;

\*\*\* WARNING

Data set contains cases with missing on x-variables.  
These cases were not included in the analysis.  
Number of cases with missing on x-variables: 177  
1 WARNING(S) FOUND IN THE INPUT INSTRUCTIONS

Clustered logistic regression ;

SUMMARY OF ANALYSIS

Number of groups	1
Number of observations	955
Number of dependent variables	1
Number of independent variables	7
Number of continuous latent variables	0

Observed dependent variables

Binary and ordered categorical (ordinal)

UAIBIN

Observed independent variables

CRELA NON\_MONO CESD AGE SAIS HIVDISC  
HIVPOS

Variables with special functions

Cluster variable COUPID

Estimator MLR  
Information matrix OBSERVED  
Optimization Specifications for the Quasi-Newton Algorithm for Continuous Outcomes  
Maximum number of iterations 100  
Convergence criterion 0.100D-05  
Optimization Specifications for the EM Algorithm  
Maximum number of iterations 500  
Convergence criteria  
Loglikelihood change 0.100D-02  
Relative loglikelihood change 0.100D-05  
Derivative 0.100D-02  
Optimization Specifications for the M step of the EM Algorithm for Categorical Latent variables  
Number of M step iterations 1  
M step convergence criterion 0.100D-02  
Basis for M step termination ITERATION  
Optimization Specifications for the M step of the EM Algorithm for Censored, Binary or Ordered Categorical (Ordinal), Unordered Categorical (Nominal) and Count Outcomes  
Number of M step iterations 1  
M step convergence criterion 0.100D-02  
Basis for M step termination ITERATION  
Maximum value for logit thresholds 15  
Minimum value for logit thresholds -15  
Minimum expected cell size for chi-square 0.100D-01  
Maximum number of iterations for H1 2000  
Convergence criterion for H1 0.100D-03  
Optimization algorithm EMA  
Integration Specifications  
Type MONTECARLO  
Number of integration points 1  
Dimensions of numerical integration 0  
Adaptive quadrature ON  
Monte Carlo integration seed 0  
Link LOGIT  
Cholesky OFF  
  
Input data file(s)  
long\_demo.txt  
Input data format FREE

SUMMARY OF DATA

Number of missing data patterns 1  
Number of clusters 529

COVARIANCE COVERAGE OF DATA

Minimum covariance coverage value 0.100

UNIVARIATE PROPORTIONS AND COUNTS FOR CATEGORICAL VARIABLES

UAIBIN			
Category 1	0.867	828.000	
Category 2	0.133	127.000	

THE MODEL ESTIMATION TERMINATED NORMALLY

MODEL FIT INFORMATION

Number of Free Parameters 8

Loglikelihood

H0 Value	-318.291
H0 Scaling Correction Factor for MLR	1.072

Information Criteria

Akaike (AIC)	652.581
Bayesian (BIC)	691.475
Sample-Size Adjusted BIC ( $n^* = (n + 2) / 24$ )	666.067

MODEL RESULTS

	Estimate	S.E.	Est./S.E.	Two-Tailed P-Value
UAIBIN ON				
HIVDISC	0.769	0.264	2.917	0.004
HIVPOS	0.596	0.281	2.123	0.034
CRELA	0.025	0.017	1.532	0.125
NON_MONO	2.270	0.389	5.832	0.000
CESD	0.000	0.010	0.036	0.971
AGE	-0.019	0.012	-1.662	0.097
SAIS	-0.027	0.012	-2.301	0.021
Thresholds				
UAIBIN\$1	2.261	0.867	2.609	0.009

LOGISTIC REGRESSION ODDS RATIO RESULTS

UAIBIN ON	
HIVDISC	2.158
HIVPOS	1.815
CRELA	1.026
NON_MONO	9.681
CESD	1.000



AGE 0.981  
 SAIS 0.973

QUALITY OF NUMERICAL RESULTS

Condition Number for the Information Matrix 0.367E-05  
 (ratio of smallest to largest eigenvalue)

CONFIDENCE INTERVALS OF MODEL RESULTS

	Lower .5%	Lower 2.5%	Lower 5%	Estimate	Upper 5%	Upper 2.5%
Upper .5%						
UAIBIN ON						
HIVDISC 1.448	0.090	0.252	0.335	0.769	1.203	1.286
HIVPOS 1.319	-0.127	0.046	0.134	0.596	1.058	1.146
CRELA 0.068	-0.017	-0.007	-0.002	0.025	0.053	0.058
NON_MONO 3.273	1.268	1.507	1.630	2.270	2.910	3.033
CESD 0.025	-0.025	-0.019	-0.016	0.000	0.016	0.019
AGE 0.011	-0.049	-0.042	-0.039	-0.019	0.000	0.003
SAIS 0.003	-0.058	-0.050	-0.047	-0.027	-0.008	-0.004
Thresholds						
UAIBIN\$1 4.493	0.029	0.562	0.835	2.261	3.686	3.959

CONFIDENCE INTERVALS FOR THE LOGISTIC REGRESSION ODDS RATIO RESULTS

UAIBIN ON						
HIVDISC 4.255	1.094	1.287	1.398	2.158	3.329	3.617
HIVPOS 3.740	0.881	1.047	1.144	1.815	2.880	3.146
CRELA 1.071	0.983	0.993	0.998	1.026	1.054	1.060
NON_MONO 26.384	3.552	4.514	5.103	9.681	18.365	20.761
CESD 1.026	0.976	0.982	0.985	1.000	1.016	1.020
AGE 1.011	0.952	0.959	0.962	0.981	1.000	1.003
SAIS 1.003	0.944	0.951	0.954	0.973	0.992	0.996

Beginning Time: 09:38:00  
 Ending Time: 09:38:01  
 Elapsed Time: 00:00:01

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Mplus VERSION 6.1  
MUTHEN & MUTHEN  
11/10/2010 9:40 AM

INPUT INSTRUCTIONS

TITLE: Clustered logistic regression ;

DATA:

FILE IS long\_demo.txt ;

VARIABLE:

NAMES ARE coupid couphiv crela non\_mono uaibin partner cesd age sais ;  
MISSING ARE ALL (-999) ;  
USEVARIABLES ARE crela non\_mono uaibin cesd age sais hivdisc hivpos ;  
CLUSTER IS coupid ; ! Identifies the cluster ID variable ;  
CATEGORICAL ARE uaibin ; ! Identifies ordinal or binary mediators or outcomes ;

! Create dummy variables to indicate couple HIV status ;

DEFINE:

IF (couphiv EQ 1) THEN hivdisc = 0 ;  
IF (couphiv EQ 2) THEN hivdisc = 1 ;  
IF (couphiv EQ 3) THEN hivdisc = 0 ;  
IF (couphiv EQ 1) THEN hivpos = 0 ;  
IF (couphiv EQ 2) THEN hivpos = 0 ;  
IF (couphiv EQ 3) THEN hivpos = 1 ;

! Analysis type is COMPLEX ;

! MonteCarlo integration is required to estimate this model ;

ANALYSIS:

TYPE = COMPLEX ;  
ESTIMATOR = MLR ;  
ALGORITHM = integration ;  
INTEGRATION = montecarlo ;

MODEL:

uaibin ON hivdisc hivpos crela non\_mono cesd age sais ;

! Only SAIS and Age have missing data ;

sais ;  
age ;

OUTPUT:

cinterval ;

INPUT READING TERMINATED NORMALLY

Clustered logistic regression ;

SUMMARY OF ANALYSIS

Number of groups	1
Number of observations	1132
Number of dependent variables	1
Number of independent variables	7

```

Number of continuous latent variables                0

Observed dependent variables

  Binary and ordered categorical (ordinal)
  UAIBIN

Observed independent variables
  CRELA      NON_MONO    CESD      AGE      SAIS      HIVDISC
  HIVPOS

Variables with special functions

  Cluster variable      COUPID

Estimator                                          MLR
Information matrix                                OBSERVED
Optimization Specifications for the Quasi-Newton Algorithm for
Continuous Outcomes
  Maximum number of iterations                    100
  Convergence criterion                          0.100D-05
Optimization Specifications for the EM Algorithm
  Maximum number of iterations                    500
  Convergence criteria
    Loglikelihood change                         0.100D-02
    Relative loglikelihood change                0.100D-05
    Derivative                                  0.100D-02
Optimization Specifications for the M step of the EM Algorithm for
Categorical Latent variables
  Number of M step iterations                    1
  M step convergence criterion                  0.100D-02
  Basis for M step termination                  ITERATION
Optimization Specifications for the M step of the EM Algorithm for
Censored, Binary or Ordered Categorical (Ordinal), Unordered
Categorical (Nominal) and Count Outcomes
  Number of M step iterations                    1
  M step convergence criterion                  0.100D-02
  Basis for M step termination                  ITERATION
  Maximum value for logit thresholds            15
  Minimum value for logit thresholds            -15
  Minimum expected cell size for chi-square     0.100D-01
Maximum number of iterations for H1              2000
Convergence criterion for H1                    0.100D-03
Optimization algorithm                          EMA
Integration Specifications
  Type                                          MONTECARLO
  Number of integration points                  50
  Dimensions of numerical integration           2
  Adaptive quadrature                          ON
  Monte Carlo integration seed                 0
Link                                            LOGIT
Cholesky                                       OFF

Input data file(s)
  long_demo.txt
Input data format  FREE

```

SUMMARY OF DATA

```

  Number of missing data patterns              4
  Number of clusters                          566

```

COVARIANCE COVERAGE OF DATA

Minimum covariance coverage value 0.100

PROPORTION OF DATA PRESENT FOR Y

	Covariance Coverage				
	AGE	SAIS	CRELA	NON_MONO	CESD
AGE	0.951				
SAIS	0.844	0.884			
CRELA	0.951	0.884	1.000		
NON_MONO	0.951	0.884	1.000	1.000	
CESD	0.951	0.884	1.000	1.000	1.000
HIVDISC	0.951	0.884	1.000	1.000	1.000
HIVPOS	0.951	0.884	1.000	1.000	1.000

	Covariance Coverage	
	HIVDISC	HIVPOS
HIVDISC	1.000	
HIVPOS	1.000	1.000

UNIVARIATE PROPORTIONS AND COUNTS FOR CATEGORICAL VARIABLES

UAIBIN			
Category 1	0.868	983.000	
Category 2	0.132	149.000	

THE MODEL ESTIMATION TERMINATED NORMALLY

MODEL FIT INFORMATION

Number of Free Parameters 13

Loglikelihood

H0 Value	-8166.921
H0 Scaling Correction Factor for MLR	1.207

Information Criteria

Akaike (AIC)	16359.841
Bayesian (BIC)	16425.254
Sample-Size Adjusted BIC (n* = (n + 2) / 24)	16383.962

MODEL RESULTS

Two-Tailed

	Estimate	S.E.	Est./S.E.	P-Value
UAIBIN ON				
HIVDISC	0.832	0.240	3.471	0.001
HIVPOS	0.356	0.258	1.379	0.168
CRELA	0.016	0.015	1.081	0.280
NON_MONO	1.897	0.299	6.337	0.000
CESD	0.006	0.009	0.647	0.517
AGE	-0.020	0.011	-1.831	0.067
SAIS	-0.027	0.011	-2.420	0.016
SAIS WITH				
AGE	-0.644	3.340	-0.193	0.847
Means				
AGE	41.282	0.452	91.424	0.000
SAIS	40.830	0.309	132.297	0.000
Thresholds				
UAIBIN\$1	1.992	0.778	2.560	0.010
Variances				
AGE	132.383	7.302	18.130	0.000
SAIS	82.053	4.402	18.639	0.000

LOGISTIC REGRESSION ODDS RATIO RESULTS

UAIBIN ON	
HIVDISC	2.297
HIVPOS	1.428
CRELA	1.016
NON_MONO	6.666
CESD	1.006
AGE	0.981
SAIS	0.973

QUALITY OF NUMERICAL RESULTS

Condition Number for the Information Matrix 0.213E-06  
 (ratio of smallest to largest eigenvalue)

CONFIDENCE INTERVALS OF MODEL RESULTS

	Lower .5%	Lower 2.5%	Lower 5%	Estimate	Upper 5%	Upper 2.5%
Upper .5%						
UAIBIN ON						
HIVDISC	0.214	0.362	0.438	0.832	1.226	1.301
1.449						
HIVPOS	-0.309	-0.150	-0.069	0.356	0.781	0.862
1.021						
CRELA	-0.022	-0.013	-0.008	0.016	0.041	0.045
0.054						
NON_MONO	1.126	1.310	1.405	1.897	2.389	2.484
2.668						
CESD	-0.018	-0.012	-0.009	0.006	0.021	0.024
0.030						
AGE	-0.047	-0.040	-0.037	-0.020	-0.002	0.001
0.008						
SAIS	-0.056	-0.049	-0.046	-0.027	-0.009	-0.005

0.002							
SAIS	WITH						
AGE		-9.247	-7.190	-6.138	-0.644	4.849	5.901
7.958							
Means							
AGE		40.119	40.397	40.539	41.282	42.025	42.167
42.445							
SAIS		40.035	40.225	40.322	40.830	41.338	41.435
41.625							
Thresholds							
UAIBIN\$1		-0.012	0.467	0.712	1.992	3.271	3.516
3.996							
Variances							
AGE		113.574	118.071	120.371	132.383	144.395	146.695
151.191							
SAIS		70.713	73.424	74.811	82.053	89.294	90.681
93.392							

CONFIDENCE INTERVALS FOR THE LOGISTIC REGRESSION ODDS RATIO RESULTS

UAIBIN	ON						
HIVDISC		1.239	1.436	1.549	2.297	3.407	3.674
4.259							
HIVPOS		0.734	0.861	0.934	1.428	2.183	2.368
2.777							
CRELA		0.978	0.987	0.992	1.016	1.041	1.046
1.056							
NON_MONO		3.083	3.707	4.074	6.666	10.908	11.987
14.413							
CESD		0.982	0.988	0.991	1.006	1.022	1.025
1.030							
AGE		0.954	0.960	0.964	0.981	0.998	1.001
1.008							
SAIS		0.945	0.952	0.955	0.973	0.991	0.995
1.002							

Beginning Time: 09:40:15  
 Ending Time: 09:40:16  
 Elapsed Time: 00:00:01

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### **Example 3: Multilevel Analysis of Longitudinal CD4 Data**

1. Native\_CD4\_Model\_B\_Test2\_MLR.out: Mplus 6 Output for Direct ML Multiple Groups Analysis with Robust Standard Errors



Mplus VERSION 6.1  
MUTHEN & MUTHEN  
11/08/2010 8:02 AM

INPUT INSTRUCTIONS

TITLE: Square Root CD4 and ML estimation ;  
DATA:  
FILE IS H:\My Documents\Transfer\Elvin\2010\_10\Stata Data\tor\_0815\_reduced2.txt ;  
VARIABLE: NAMES ARE cd4v csex cage sqrtcd4 ctime ls0 ls1 ls2 bcd4sp1 bcd4sp2  
bcd4sp3 bcd4sp4 idno caztbl cefvbl cbvlm2 cbvlm3 cbvlm4  
cbvlm5 sregion bcd4spx1 bcd4spx2 bcd4spx3 ;  
USEVARIABLES ARE sqrtcd4 ls0 ls1 ls2  
csex cage bcd4spx1 bcd4spx2 bcd4spx3  
cbvlm2 cbvlm3 cbvlm4 cbvlm5 caztbl cefvbl ;  
MISSING ARE ALL (-999) ;  
WITHIN = ls0 ls1 ls2 ;  
BETWEEN = csex cage bcd4spx1 bcd4spx2 bcd4spx3  
cbvlm2 cbvlm3 cbvlm4 cbvlm5 caztbl cefvbl ;  
CLUSTER = idno ;  
GROUPING IS sregion (1 = NA 2 = WA 3 = EA 4 = SA 5 = ASIA) ;  
USEOBSERVATIONS ARE (IDNO < 50000) ;

ANALYSIS:

TYPE = TWOLEVEL RANDOM ;  
ESTIMATOR = ML ;  
PROCESSORS = 4 ;

MODEL:

%WITHIN%  
s0 | sqrtcd4 ON ls0 ;  
s1 | sqrtcd4 ON ls1 ;  
s2 | sqrtcd4 ON ls2 ;  
  
sqrtcd4 ;  
  
%BETWEEN%  
  
sqrtcd4 ON bcd4spx1 bcd4spx2 bcd4spx3  
csex (050)  
cage (060)  
cbvlm2 (070)  
cbvlm3 (080)  
cbvlm4 (090)  
cbvlm5 (0100)  
caztbl (0110)  
cefvbl (0120) ;  
  
sqrtcd4 WITH s0 ;  
sqrtcd4 WITH s1 ;  
sqrtcd4 WITH s2 ;  
s0 WITH s1 ;  
s1 WITH s2 ;  
s0 WITH s2 ;  
  
[sqrtcd4] ;  
[s0] ;  
[s1] ;  
[s2] ;  
  
[caztbl] (mcaztbl) ;  
[cefvbl] (mcefvbl) ;  
caztbl (vcaztbl) ;

```
    cefvbl (vcefvbl) ;

    [cbv1m2] (mbv12) ;
    [cbv1m3] (mbv13) ;
    [cbv1m4] (mbv14) ;
    [cbv1m5] (mbv15) ;

    cbv1m2 (vbv12) ;
    cbv1m3 (vbv13) ;
    cbv1m4 (vbv14) ;
    cbv1m5 (vbv15) ;
```

MODEL NA:

```
%WITHIN%

    sqrtcd4 (r1) ;

%BETWEEN%

    sqrtcd4 ON bcd4spx1 (b110)
              bcd4spx2 (b120)
              bcd4spx3 (b130) ;

    sqrtcd4 WITH s0 (c101) ;
    sqrtcd4 WITH s1 (c102) ;
    sqrtcd4 WITH s2 (c103) ;
    s0 WITH s1 (c112) ;
    s0 WITH s2 (c113) ;
    s1 WITH s2 (c123) ;

    [sqrtcd4] (a10) ;
    [s0] (a11) ;
    [s1] (a12) ;
    [s2] (a13) ;

    sqrtcd4 (v10) ;
    s0 (v12) ;
    s1 (v13) ;
    s2 (v14) ;
```

MODEL WA:

```
%WITHIN%

    sqrtcd4 (r2) ;

%BETWEEN%

    sqrtcd4 ON bcd4spx1 (b210)
              bcd4spx2 (b220)
              bcd4spx3 (b230) ;

    sqrtcd4 WITH s0 (c201) ;
    sqrtcd4 WITH s1 (c202) ;
    sqrtcd4 WITH s2 (c203) ;
    s0 WITH s1 (c212) ;
    s0 WITH s2 (c213) ;
    s1 WITH s2 (c223) ;

    [sqrtcd4] (a20) ;
    [s0] (a21) ;
    [s1] (a22) ;
```

[s2] (a23) ;

sqrtcd4 (v20) ;

s0 (v22) ;

s1 (v23) ;

s2 (v24) ;

MODEL EA:

%WITHIN%

sqrtcd4 (r3) ;

%BETWEEN%

sqrtcd4 ON bcd4spx1 (b310)  
bcd4spx2 (b320)  
bcd4spx3 (b330) ;

sqrtcd4 WITH s0 (c301) ;

sqrtcd4 WITH s1 (c302) ;

sqrtcd4 WITH s2 (c303) ;

s0 WITH s1 (c312) ;

s0 WITH s2 (c313) ;

s1 WITH s2 (c323) ;

[sqrtcd4] (a30) ;

[s0] (a31) ;

[s1] (a32) ;

[s2] (a33) ;

sqrtcd4 (v30) ;

s0 (v32) ;

s1 (v33) ;

s2 (v34) ;

MODEL SA:

%WITHIN%

sqrtcd4 (r4) ;

%BETWEEN%

sqrtcd4 ON bcd4spx1 (b410)  
bcd4spx2 (b420)  
bcd4spx3 (b430) ;

sqrtcd4 WITH s0 (c401) ;

sqrtcd4 WITH s1 (c402) ;

sqrtcd4 WITH s2 (c403) ;

s0 WITH s1 (c412) ;

s0 WITH s2 (c413) ;

s1 WITH s2 (c423) ;

[sqrtcd4] (a40) ;

[s0] (a41) ;

[s1] (a42) ;

[s2] (a43) ;

sqrtcd4 (v40) ;

s0 (v42) ;

s1 (v43) ;

s2 (v44) ;

MODEL ASIA:

%WITHIN%

sqrtcd4 (r5) ;

%BETWEEN%

sqrtcd4 ON bcd4spx1 (b510)  
bcd4spx2 (b520)  
bcd4spx3 (b530) ;

sqrtcd4 WITH s0 (c501) ;  
sqrtcd4 WITH s1 (c502) ;  
sqrtcd4 WITH s2 (c503) ;  
s0 WITH s1 (c512) ;  
s0 WITH s2 (c513) ;  
s1 WITH s2 (c523) ;

[sqrtcd4] (a50) ;  
[s0] (a51) ;  
[s1] (a52) ;  
[s2] (a53) ;

sqrtcd4 (v50) ;  
s0 (v52) ;  
s1 (v53) ;  
s2 (v54) ;

MODEL CONSTRAINT:

NEW m111 m121 m141 m151 m161 m181  
m211 m221 m241 m251 m261 m281  
m311 m321 m341 m351 m361 m381  
m411 m421 m441 m451 m461 m481  
m511 m521 m541 m551 m561 m581

m112 m122 m142 m152 m162 m182  
m212 m222 m242 m252 m262 m282  
m312 m322 m342 m352 m362 m382  
m412 m422 m442 m452 m462 m482  
m512 m522 m542 m552 m562 m582

m113 m123 m143 m153 m163 m183  
m213 m223 m243 m253 m263 m283  
m313 m323 m343 m353 m363 m383  
m413 m423 m443 m453 m463 m483  
m513 m523 m543 m553 m563 m583 ;

NEW m111x m121x m141x m151x m161x m181x  
m211x m221x m241x m251x m261x m281x  
m311x m321x m341x m351x m361x m381x  
m411x m421x m441x m451x m461x m481x  
m511x m521x m541x m551x m561x m581x

m112x m122x m142x m152x m162x m182x  
m212x m222x m242x m252x m262x m282x  
m312x m322x m342x m352x m362x m382x  
m412x m422x m442x m452x m462x m482x  
m512x m522x m542x m552x m562x m582x

m113x m123x m143x m153x m163x m183x

m213x m223x m243x m253x m263x m283x  
m313x m323x m343x m353x m363x m383x  
m413x m423x m443x m453x m463x m483x  
m513x m523x m543x m553x m563x m583x ;

NEW NS\_1\_25 NS\_1\_50 NS\_1\_100 NS\_1\_150 NS\_1\_200 NS\_1\_300  
NS\_2\_25 NS\_2\_50 NS\_2\_100 NS\_2\_150 NS\_2\_200 NS\_2\_300  
NS\_3\_25 NS\_3\_50 NS\_3\_100 NS\_3\_150 NS\_3\_200 NS\_3\_300

NE\_1\_25 NE\_1\_50 NE\_1\_100 NE\_1\_150 NE\_1\_200 NE\_1\_300  
NE\_2\_25 NE\_2\_50 NE\_2\_100 NE\_2\_150 NE\_2\_200 NE\_2\_300  
NE\_3\_25 NE\_3\_50 NE\_3\_100 NE\_3\_150 NE\_3\_200 NE\_3\_300

NW\_1\_25 NW\_1\_50 NW\_1\_100 NW\_1\_150 NW\_1\_200 NW\_1\_300  
NW\_2\_25 NW\_2\_50 NW\_2\_100 NW\_2\_150 NW\_2\_200 NW\_2\_300  
NW\_3\_25 NW\_3\_50 NW\_3\_100 NW\_3\_150 NW\_3\_200 NW\_3\_300

NA\_1\_25 NA\_1\_50 NA\_1\_100 NA\_1\_150 NA\_1\_200 NA\_1\_300  
NA\_2\_25 NA\_2\_50 NA\_2\_100 NA\_2\_150 NA\_2\_200 NA\_2\_300  
NA\_3\_25 NA\_3\_50 NA\_3\_100 NA\_3\_150 NA\_3\_200 NA\_3\_300

SE\_1\_25 SE\_1\_50 SE\_1\_100 SE\_1\_150 SE\_1\_200 SE\_1\_300  
SE\_2\_25 SE\_2\_50 SE\_2\_100 SE\_2\_150 SE\_2\_200 SE\_2\_300  
SE\_3\_25 SE\_3\_50 SE\_3\_100 SE\_3\_150 SE\_3\_200 SE\_3\_300 ;

NEW SW\_1\_25 SW\_1\_50 SW\_1\_100 SW\_1\_150 SW\_1\_200 SW\_1\_300  
SW\_2\_25 SW\_2\_50 SW\_2\_100 SW\_2\_150 SW\_2\_200 SW\_2\_300  
SW\_3\_25 SW\_3\_50 SW\_3\_100 SW\_3\_150 SW\_3\_200 SW\_3\_300

SA\_1\_25 SA\_1\_50 SA\_1\_100 SA\_1\_150 SA\_1\_200 SA\_1\_300  
SA\_2\_25 SA\_2\_50 SA\_2\_100 SA\_2\_150 SA\_2\_200 SA\_2\_300  
SA\_3\_25 SA\_3\_50 SA\_3\_100 SA\_3\_150 SA\_3\_200 SA\_3\_300

EW\_1\_25 EW\_1\_50 EW\_1\_100 EW\_1\_150 EW\_1\_200 EW\_1\_300  
EW\_2\_25 EW\_2\_50 EW\_2\_100 EW\_2\_150 EW\_2\_200 EW\_2\_300  
EW\_3\_25 EW\_3\_50 EW\_3\_100 EW\_3\_150 EW\_3\_200 EW\_3\_300

EA\_1\_25 EA\_1\_50 EA\_1\_100 EA\_1\_150 EA\_1\_200 EA\_1\_300  
EA\_2\_25 EA\_2\_50 EA\_2\_100 EA\_2\_150 EA\_2\_200 EA\_2\_300  
EA\_3\_25 EA\_3\_50 EA\_3\_100 EA\_3\_150 EA\_3\_200 EA\_3\_300

WA\_1\_25 WA\_1\_50 WA\_1\_100 WA\_1\_150 WA\_1\_200 WA\_1\_300  
WA\_2\_25 WA\_2\_50 WA\_2\_100 WA\_2\_150 WA\_2\_200 WA\_2\_300  
WA\_3\_25 WA\_3\_50 WA\_3\_100 WA\_3\_150 WA\_3\_200 WA\_3\_300 ;

NEW u1 u2 u3 u4 u5 ;

! Time one knot values (4 months);

! Due to centering at 4 months, time is represented by the constant term ;

m111=a10 + b110\*25 + b120\*.0765595 + b130\*0 ;  
m121=a10 + b110\*50 + b120\*1.043728 + b130\*0 ;  
m141=a10 + b110\*100 + b120\*10.55919 + b130\*.2051171 ;  
m151=a10 + b110\*150 + b120\*38.38751 + b130\*5.538162 ;  
m161=a10 + b110\*200 + b120\*92.08804 + b130\*23.91666 ;  
m181=a10 + b110\*300 + b120\*246.1956 + b130\*86.20248 ;

m211=a20 + b210\*25 + b220\*.0765595 + b230\*0 ;  
m221=a20 + b210\*50 + b220\*1.043728 + b230\*0 ;  
m241=a20 + b210\*100 + b220\*10.55919 + b230\*.2051171 ;  
m251=a20 + b210\*150 + b220\*38.38751 + b230\*5.538162 ;  
m261=a20 + b210\*200 + b220\*92.08804 + b230\*23.91666 ;  
m281=a20 + b210\*300 + b220\*246.1956 + b230\*86.20248 ;

m311=a30 + b310\*25 + b320\*.0765595 + b330\*0 ;  
 m321=a30 + b310\*50 + b320\*1.043728 + b330\*0 ;  
 m341=a30 + b310\*100 + b320\*10.55919 + b330\*.2051171 ;  
 m351=a30 + b310\*150 + b320\*38.38751 + b330\*5.538162 ;  
 m361=a30 + b310\*200 + b320\*92.08804 + b330\*23.91666 ;  
 m381=a30 + b310\*300 + b320\*246.1956 + b330\*86.20248 ;

m411=a40 + b410\*25 + b420\*.0765595 + b430\*0 ;  
 m421=a40 + b410\*50 + b420\*1.043728 + b430\*0 ;  
 m441=a40 + b410\*100 + b420\*10.55919 + b430\*.2051171 ;  
 m451=a40 + b410\*150 + b420\*38.38751 + b430\*5.538162 ;  
 m461=a40 + b410\*200 + b420\*92.08804 + b430\*23.91666 ;  
 m481=a40 + b410\*300 + b420\*246.1956 + b430\*86.20248 ;

m511=a50 + b510\*25 + b520\*.0765595 + b530\*0 ;  
 m521=a50 + b510\*50 + b520\*1.043728 + b530\*0 ;  
 m541=a50 + b510\*100 + b520\*10.55919 + b530\*.2051171 ;  
 m551=a50 + b510\*150 + b520\*38.38751 + b530\*5.538162 ;  
 m561=a50 + b510\*200 + b520\*92.08804 + b530\*23.91666 ;  
 m581=a50 + b510\*300 + b520\*246.1956 + b530\*86.20248 ;

! Time two knot values;  
 ! These represent the expected values of the spline knots at the end of time 2;  
 ! (12 months), so the multiplier for time is constant + 8\*time2 slope ;

m112=a10 + b110\*25 + b120\*.0765595 + b130\*0 + 8\*a12 ;  
 m122=a10 + b110\*50 + b120\*1.043728 + b130\*0 + 8\*a12 ;  
 m142=a10 + b110\*100 + b120\*10.55919 + b130\*.2051171 + 8\*a12 ;  
 m152=a10 + b110\*150 + b120\*38.38751 + b130\*5.538162 + 8\*a12 ;  
 m162=a10 + b110\*200 + b120\*92.08804 + b130\*23.91666 + 8\*a12 ;  
 m182=a10 + b110\*300 + b120\*246.1956 + b130\*86.20248 + 8\*a12 ;

m212=a20 + b210\*25 + b220\*.0765595 + b230\*0 + 8\*a22 ;  
 m222=a20 + b210\*50 + b220\*1.043728 + b230\*0 + 8\*a22 ;  
 m242=a20 + b210\*100 + b220\*10.55919 + b230\*.2051171 + 8\*a22 ;  
 m252=a20 + b210\*150 + b220\*38.38751 + b230\*5.538162 + 8\*a22 ;  
 m262=a20 + b210\*200 + b220\*92.08804 + b230\*23.91666 + 8\*a22 ;  
 m282=a20 + b210\*300 + b220\*246.1956 + b230\*86.20248 + 8\*a22 ;

m312=a30 + b310\*25 + b320\*.0765595 + b330\*0 + 8\*a32 ;  
 m322=a30 + b310\*50 + b320\*1.043728 + b330\*0 + 8\*a32 ;  
 m342=a30 + b310\*100 + b320\*10.55919 + b330\*.2051171 + 8\*a32 ;  
 m352=a30 + b310\*150 + b320\*38.38751 + b330\*5.538162 + 8\*a32 ;  
 m362=a30 + b310\*200 + b320\*92.08804 + b330\*23.91666 + 8\*a32 ;  
 m382=a30 + b310\*300 + b320\*246.1956 + b330\*86.20248 + 8\*a32 ;

m412=a40 + b410\*25 + b420\*.0765595 + b430\*0 + 8\*a42 ;  
 m422=a40 + b410\*50 + b420\*1.043728 + b430\*0 + 8\*a42 ;  
 m442=a40 + b410\*100 + b420\*10.55919 + b430\*.2051171 + 8\*a42 ;  
 m452=a40 + b410\*150 + b420\*38.38751 + b430\*5.538162 + 8\*a42 ;  
 m462=a40 + b410\*200 + b420\*92.08804 + b430\*23.91666 + 8\*a42 ;  
 m482=a40 + b410\*300 + b420\*246.1956 + b430\*86.20248 + 8\*a42 ;

m512=a50 + b510\*25 + b520\*.0765595 + b530\*0 + 8\*a52 ;  
 m522=a50 + b510\*50 + b520\*1.043728 + b530\*0 + 8\*a52 ;  
 m542=a50 + b510\*100 + b520\*10.55919 + b530\*.2051171 + 8\*a52 ;  
 m552=a50 + b510\*150 + b520\*38.38751 + b530\*5.538162 + 8\*a52 ;  
 m562=a50 + b510\*200 + b520\*92.08804 + b530\*23.91666 + 8\*a52 ;  
 m582=a50 + b510\*300 + b520\*246.1956 + b530\*86.20248 + 8\*a52 ;

! Time three knot values;  
 ! These represent the expected values of the spline knots at the end of time 3;

! (36 months), so the multiplier for time is constant + 8\*time2 slope +  
! 24\*time3 ;

m113=a10 + b110\*25 + b120\*.0765595 + b130\*0 + 8\*a12 + 24\*a13 ;  
m123=a10 + b110\*50 + b120\*1.043728 + b130\*0 + 8\*a12 + 24\*a13 ;  
m143=a10 + b110\*100 + b120\*10.55919 + b130\*.2051171 + 8\*a12 + 24\*a13 ;  
m153=a10 + b110\*150 + b120\*38.38751 + b130\*5.538162 + 8\*a12 + 24\*a13 ;  
m163=a10 + b110\*200 + b120\*92.08804 + b130\*23.91666 + 8\*a12 + 24\*a13 ;  
m183=a10 + b110\*300 + b120\*246.1956 + b130\*86.20248 + 8\*a12 + 24\*a13 ;

m213=a20 + b210\*25 + b220\*.0765595 + b230\*0 + 8\*a22 + 24\*a23 ;  
m223=a20 + b210\*50 + b220\*1.043728 + b230\*0 + 8\*a22 + 24\*a23 ;  
m243=a20 + b210\*100 + b220\*10.55919 + b230\*.2051171 + 8\*a22 + 24\*a23 ;  
m253=a20 + b210\*150 + b220\*38.38751 + b230\*5.538162 + 8\*a22 + 24\*a23 ;  
m263=a20 + b210\*200 + b220\*92.08804 + b230\*23.91666 + 8\*a22 + 24\*a23 ;  
m283=a20 + b210\*300 + b220\*246.1956 + b230\*86.20248 + 8\*a22 + 24\*a23 ;

m313=a30 + b310\*25 + b320\*.0765595 + b330\*0 + 8\*a32 + 24\*a33 ;  
m323=a30 + b310\*50 + b320\*1.043728 + b330\*0 + 8\*a32 + 24\*a33 ;  
m343=a30 + b310\*100 + b320\*10.55919 + b330\*.2051171 + 8\*a32 + 24\*a33 ;  
m353=a30 + b310\*150 + b320\*38.38751 + b330\*5.538162 + 8\*a32 + 24\*a33 ;  
m363=a30 + b310\*200 + b320\*92.08804 + b330\*23.91666 + 8\*a32 + 24\*a33 ;  
m383=a30 + b310\*300 + b320\*246.1956 + b330\*86.20248 + 8\*a32 + 24\*a33 ;

m413=a40 + b410\*25 + b420\*.0765595 + b430\*0 + 8\*a42 + 24\*a43 ;  
m423=a40 + b410\*50 + b420\*1.043728 + b430\*0 + 8\*a42 + 24\*a43 ;  
m443=a40 + b410\*100 + b420\*10.55919 + b430\*.2051171 + 8\*a42 + 24\*a43 ;  
m453=a40 + b410\*150 + b420\*38.38751 + b430\*5.538162 + 8\*a42 + 24\*a43 ;  
m463=a40 + b410\*200 + b420\*92.08804 + b430\*23.91666 + 8\*a42 + 24\*a43 ;  
m483=a40 + b410\*300 + b420\*246.1956 + b430\*86.20248 + 8\*a42 + 24\*a43 ;

m513=a50 + b510\*25 + b520\*.0765595 + b530\*0 + 8\*a52 + 24\*a53 ;  
m523=a50 + b510\*50 + b520\*1.043728 + b530\*0 + 8\*a52 + 24\*a53 ;  
m543=a50 + b510\*100 + b520\*10.55919 + b530\*.2051171 + 8\*a52 + 24\*a53 ;  
m553=a50 + b510\*150 + b520\*38.38751 + b530\*5.538162 + 8\*a52 + 24\*a53 ;  
m563=a50 + b510\*200 + b520\*92.08804 + b530\*23.91666 + 8\*a52 + 24\*a53 ;  
m583=a50 + b510\*300 + b520\*246.1956 + b530\*86.20248 + 8\*a52 + 24\*a53 ;

! Variance components (total variance) for random effects ;  
! See Eric Vittinghoff e-mail of Nov. 3, 2010 ;

u1 = (1\*v10 + (-2.5)\*c101 + 8\*c102 + 24\*c103)\*1 +  
(1\*c101 + (-2.5)\*v12 + 8\*c112 + 24\*c113)\*(-2.5) +  
(1\*c102 + (-2.5)\*c112 + 8\*v13 + 24\*c123)\*8 +  
(1\*c103 + (-2.5)\*c113 + 8\*c123 + 24\*v14)\*24 ;

u2 = (1\*v20 + (-2.5)\*c201 + 8\*c202 + 24\*c203)\*1 +  
(1\*c201 + (-2.5)\*v22 + 8\*c212 + 24\*c213)\*(-2.5) +  
(1\*c202 + (-2.5)\*c212 + 8\*v23 + 24\*c223)\*8 +  
(1\*c203 + (-2.5)\*c213 + 8\*c223 + 24\*v24)\*24 ;

u3 = (1\*v30 + (-2.5)\*c301 + 8\*c302 + 24\*c303)\*1 +  
(1\*c301 + (-2.5)\*v32 + 8\*c312 + 24\*c313)\*(-2.5) +  
(1\*c302 + (-2.5)\*c312 + 8\*v33 + 24\*c323)\*8 +  
(1\*c303 + (-2.5)\*c313 + 8\*c323 + 24\*v34)\*24 ;

u4 = (1\*v40 + (-2.5)\*c401 + 8\*c402 + 24\*c403)\*1 +  
(1\*c401 + (-2.5)\*v42 + 8\*c412 + 24\*c413)\*(-2.5) +  
(1\*c402 + (-2.5)\*c412 + 8\*v43 + 24\*c423)\*8 +  
(1\*c403 + (-2.5)\*c413 + 8\*c423 + 24\*v44)\*24 ;

u5 = (1\*v50 + (-2.5)\*c501 + 8\*c502 + 24\*c503)\*1 +  
(1\*c501 + (-2.5)\*v52 + 8\*c512 + 24\*c513)\*(-2.5) +

(1\*c502 + (-2.5)\*c512 + 8\*v53 + 24\*c523)\*8 +  
(1\*c503 + (-2.5)\*c513 + 8\*c523 + 24\*v54)\*24 ;

! Backtransformation to native scale of measurement ;

m111x = m111\*\*2 + u1 + r1 ;  
m121x = m121\*\*2 + u1 + r1 ;  
m141x = m141\*\*2 + u1 + r1 ;  
m151x = m151\*\*2 + u1 + r1 ;  
m161x = m161\*\*2 + u1 + r1 ;  
m181x = m181\*\*2 + u1 + r1 ;

m211x = m211\*\*2 + u2 + r2 ;  
m221x = m221\*\*2 + u2 + r2 ;  
m241x = m241\*\*2 + u2 + r2 ;  
m251x = m251\*\*2 + u2 + r2 ;  
m261x = m261\*\*2 + u2 + r2 ;  
m281x = m281\*\*2 + u2 + r2 ;

m311x = m311\*\*2 + u3 + r3 ;  
m321x = m321\*\*2 + u3 + r3 ;  
m341x = m341\*\*2 + u3 + r3 ;  
m351x = m351\*\*2 + u3 + r3 ;  
m361x = m361\*\*2 + u3 + r3 ;  
m381x = m381\*\*2 + u3 + r3 ;

m411x = m411\*\*2 + u4 + r4 ;  
m421x = m421\*\*2 + u4 + r4 ;  
m441x = m441\*\*2 + u4 + r4 ;  
m451x = m451\*\*2 + u4 + r4 ;  
m461x = m461\*\*2 + u4 + r4 ;  
m481x = m481\*\*2 + u4 + r4 ;

m511x = m511\*\*2 + u5 + r5 ;  
m521x = m521\*\*2 + u5 + r5 ;  
m541x = m541\*\*2 + u5 + r5 ;  
m551x = m551\*\*2 + u5 + r5 ;  
m561x = m561\*\*2 + u5 + r5 ;  
m581x = m581\*\*2 + u5 + r5 ;

m112x = m112\*\*2 + u1 + r1 ;  
m122x = m122\*\*2 + u1 + r1 ;  
m142x = m142\*\*2 + u1 + r1 ;  
m152x = m152\*\*2 + u1 + r1 ;  
m162x = m162\*\*2 + u1 + r1 ;  
m182x = m182\*\*2 + u1 + r1 ;

m212x = m212\*\*2 + u2 + r2 ;  
m222x = m222\*\*2 + u2 + r2 ;  
m242x = m242\*\*2 + u2 + r2 ;  
m252x = m252\*\*2 + u2 + r2 ;  
m262x = m262\*\*2 + u2 + r2 ;  
m282x = m282\*\*2 + u2 + r2 ;

m312x = m312\*\*2 + u3 + r3 ;  
m322x = m322\*\*2 + u3 + r3 ;  
m342x = m342\*\*2 + u3 + r3 ;  
m352x = m352\*\*2 + u3 + r3 ;  
m362x = m362\*\*2 + u3 + r3 ;  
m382x = m382\*\*2 + u3 + r3 ;

m412x = m412\*\*2 + u4 + r4 ;



m422x = m422\*\*2 + u4 + r4 ;  
m442x = m442\*\*2 + u4 + r4 ;  
m452x = m452\*\*2 + u4 + r4 ;  
m462x = m462\*\*2 + u4 + r4 ;  
m482x = m482\*\*2 + u4 + r4 ;

m512x = m512\*\*2 + u5 + r5 ;  
m522x = m522\*\*2 + u5 + r5 ;  
m542x = m542\*\*2 + u5 + r5 ;  
m552x = m552\*\*2 + u5 + r5 ;  
m562x = m562\*\*2 + u5 + r5 ;  
m582x = m582\*\*2 + u5 + r5 ;

m113x = m113\*\*2 + u1 + r1 ;  
m123x = m123\*\*2 + u1 + r1 ;  
m143x = m143\*\*2 + u1 + r1 ;  
m153x = m153\*\*2 + u1 + r1 ;  
m163x = m163\*\*2 + u1 + r1 ;  
m183x = m183\*\*2 + u1 + r1 ;

m213x = m213\*\*2 + u2 + r2 ;  
m223x = m223\*\*2 + u2 + r2 ;  
m243x = m243\*\*2 + u2 + r2 ;  
m253x = m253\*\*2 + u2 + r2 ;  
m263x = m263\*\*2 + u2 + r2 ;  
m283x = m283\*\*2 + u2 + r2 ;

m313x = m313\*\*2 + u3 + r3 ;  
m323x = m323\*\*2 + u3 + r3 ;  
m343x = m343\*\*2 + u3 + r3 ;  
m353x = m353\*\*2 + u3 + r3 ;  
m363x = m363\*\*2 + u3 + r3 ;  
m383x = m383\*\*2 + u3 + r3 ;

m413x = m413\*\*2 + u4 + r4 ;  
m423x = m423\*\*2 + u4 + r4 ;  
m443x = m443\*\*2 + u4 + r4 ;  
m453x = m453\*\*2 + u4 + r4 ;  
m463x = m463\*\*2 + u4 + r4 ;  
m483x = m483\*\*2 + u4 + r4 ;

m513x = m513\*\*2 + u5 + r5 ;  
m523x = m523\*\*2 + u5 + r5 ;  
m543x = m543\*\*2 + u5 + r5 ;  
m553x = m553\*\*2 + u5 + r5 ;  
m563x = m563\*\*2 + u5 + r5 ;  
m583x = m583\*\*2 + u5 + r5 ;

! Differences: NA - SA ;

NS\_1\_25 = m111x - m411x ; ! Time 1, BLCD4 = 25 ;  
NS\_1\_50 = m121x - m421x ; ! Time 1, BLCD4 = 50 ;  
NS\_1\_100 = m141x - m441x ; ! Time 1, BLCD4 = 100 ;  
NS\_1\_150 = m151x - m451x ; ! Time 1, BLCD4 = 150 ;  
NS\_1\_200 = m161x - m461x ; ! Time 1, BLCD4 = 200 ;  
NS\_1\_300 = m181x - m481x ; ! Time 1, BLCD4 = 300 ;

NS\_2\_25 = m112x - m412x ; ! Time 2, BLCD4 = 25 ;  
NS\_2\_50 = m122x - m422x ; ! Time 2, BLCD4 = 50 ;  
NS\_2\_100 = m142x - m442x ; ! Time 2, BLCD4 = 100 ;  
NS\_2\_150 = m152x - m452x ; ! Time 2, BLCD4 = 150 ;

NS\_2\_200 = m162x - m462x ; ! Time 2, BLCD4 = 200 ;  
NS\_2\_300 = m182x - m482x ; ! Time 2, BLCD4 = 300 ;

NS\_3\_25 = m113x - m413x ; ! Time 3, BLCD4 = 25 ;  
NS\_3\_50 = m123x - m423x ; ! Time 3, BLCD4 = 50 ;  
NS\_3\_100 = m143x - m443x ; ! Time 3, BLCD4 = 100 ;  
NS\_3\_150 = m153x - m453x ; ! Time 3, BLCD4 = 150 ;  
NS\_3\_200 = m163x - m463x ; ! Time 3, BLCD4 = 200 ;  
NS\_3\_300 = m183x - m483x ; ! Time 3, BLCD4 = 300 ;

! Differences: NA - EA ;

NE\_1\_25 = m111x - m311x ; ! Time 1, BLCD4 = 25 ;  
NE\_1\_50 = m121x - m321x ; ! Time 1, BLCD4 = 50 ;  
NE\_1\_100 = m141x - m341x ; ! Time 1, BLCD4 = 100 ;  
NE\_1\_150 = m151x - m351x ; ! Time 1, BLCD4 = 150 ;  
NE\_1\_200 = m161x - m361x ; ! Time 1, BLCD4 = 200 ;  
NE\_1\_300 = m181x - m381x ; ! Time 1, BLCD4 = 300 ;

NE\_2\_25 = m112x - m312x ; ! Time 2, BLCD4 = 25 ;  
NE\_2\_50 = m122x - m322x ; ! Time 2, BLCD4 = 50 ;  
NE\_2\_100 = m142x - m342x ; ! Time 2, BLCD4 = 100 ;  
NE\_2\_150 = m152x - m352x ; ! Time 2, BLCD4 = 150 ;  
NE\_2\_200 = m162x - m362x ; ! Time 2, BLCD4 = 200 ;  
NE\_2\_300 = m182x - m382x ; ! Time 2, BLCD4 = 300 ;

NE\_3\_25 = m113x - m313x ; ! Time 3, BLCD4 = 25 ;  
NE\_3\_50 = m123x - m323x ; ! Time 3, BLCD4 = 50 ;  
NE\_3\_100 = m143x - m343x ; ! Time 3, BLCD4 = 100 ;  
NE\_3\_150 = m153x - m353x ; ! Time 3, BLCD4 = 150 ;  
NE\_3\_200 = m163x - m363x ; ! Time 3, BLCD4 = 200 ;  
NE\_3\_300 = m183x - m383x ; ! Time 3, BLCD4 = 300 ;

! Differences: NA - WA ;

NW\_1\_25 = m111x - m211x ; ! Time 1, BLCD4 = 25 ;  
NW\_1\_50 = m121x - m221x ; ! Time 1, BLCD4 = 50 ;  
NW\_1\_100 = m141x - m241x ; ! Time 1, BLCD4 = 100 ;  
NW\_1\_150 = m151x - m251x ; ! Time 1, BLCD4 = 150 ;  
NW\_1\_200 = m161x - m261x ; ! Time 1, BLCD4 = 200 ;  
NW\_1\_300 = m181x - m281x ; ! Time 1, BLCD4 = 300 ;

NW\_2\_25 = m112x - m212x ; ! Time 2, BLCD4 = 25 ;  
NW\_2\_50 = m122x - m222x ; ! Time 2, BLCD4 = 50 ;  
NW\_2\_100 = m142x - m242x ; ! Time 2, BLCD4 = 100 ;  
NW\_2\_150 = m152x - m252x ; ! Time 2, BLCD4 = 150 ;  
NW\_2\_200 = m162x - m262x ; ! Time 2, BLCD4 = 200 ;  
NW\_2\_300 = m182x - m282x ; ! Time 2, BLCD4 = 300 ;

NW\_3\_25 = m113x - m213x ; ! Time 3, BLCD4 = 25 ;  
NW\_3\_50 = m123x - m223x ; ! Time 3, BLCD4 = 50 ;  
NW\_3\_100 = m143x - m243x ; ! Time 3, BLCD4 = 100 ;  
NW\_3\_150 = m153x - m253x ; ! Time 3, BLCD4 = 150 ;  
NW\_3\_200 = m163x - m263x ; ! Time 3, BLCD4 = 200 ;  
NW\_3\_300 = m183x - m283x ; ! Time 3, BLCD4 = 300 ;

! Differences: NA - ASIA ;

NA\_1\_25 = m111x - m511x ; ! Time 1, BLCD4 = 25 ;  
NA\_1\_50 = m121x - m521x ; ! Time 1, BLCD4 = 50 ;  
NA\_1\_100 = m141x - m541x ; ! Time 1, BLCD4 = 100 ;  
NA\_1\_150 = m151x - m551x ; ! Time 1, BLCD4 = 150 ;  
NA\_1\_200 = m161x - m561x ; ! Time 1, BLCD4 = 200 ;

NA\_1\_300 = m181x - m581x ; ! Time 1, BLCD4 = 300 ;

NA\_2\_25 = m112x - m512x ; ! Time 2, BLCD4 = 25 ;  
NA\_2\_50 = m122x - m522x ; ! Time 2, BLCD4 = 50 ;  
NA\_2\_100 = m142x - m542x ; ! Time 2, BLCD4 = 100 ;  
NA\_2\_150 = m152x - m552x ; ! Time 2, BLCD4 = 150 ;  
NA\_2\_200 = m162x - m562x ; ! Time 2, BLCD4 = 200 ;  
NA\_2\_300 = m182x - m582x ; ! Time 2, BLCD4 = 300 ;

NA\_3\_25 = m113x - m513x ; ! Time 3, BLCD4 = 25 ;  
NA\_3\_50 = m123x - m523x ; ! Time 3, BLCD4 = 50 ;  
NA\_3\_100 = m143x - m543x ; ! Time 3, BLCD4 = 100 ;  
NA\_3\_150 = m153x - m553x ; ! Time 3, BLCD4 = 150 ;  
NA\_3\_200 = m163x - m563x ; ! Time 3, BLCD4 = 200 ;  
NA\_3\_300 = m183x - m583x ; ! Time 3, BLCD4 = 300 ;

! Differences: SA - EA ;

SE\_1\_25 = m411x - m311x ; ! Time 1, BLCD4 = 25 ;  
SE\_1\_50 = m421x - m321x ; ! Time 1, BLCD4 = 50 ;  
SE\_1\_100 = m441x - m341x ; ! Time 1, BLCD4 = 100 ;  
SE\_1\_150 = m451x - m351x ; ! Time 1, BLCD4 = 150 ;  
SE\_1\_200 = m461x - m361x ; ! Time 1, BLCD4 = 200 ;  
SE\_1\_300 = m481x - m381x ; ! Time 1, BLCD4 = 300 ;

SE\_2\_25 = m412x - m312x ; ! Time 2, BLCD4 = 25 ;  
SE\_2\_50 = m422x - m322x ; ! Time 2, BLCD4 = 50 ;  
SE\_2\_100 = m442x - m342x ; ! Time 2, BLCD4 = 100 ;  
SE\_2\_150 = m452x - m352x ; ! Time 2, BLCD4 = 150 ;  
SE\_2\_200 = m462x - m362x ; ! Time 2, BLCD4 = 200 ;  
SE\_2\_300 = m482x - m382x ; ! Time 2, BLCD4 = 300 ;

SE\_3\_25 = m413x - m313x ; ! Time 3, BLCD4 = 25 ;  
SE\_3\_50 = m423x - m323x ; ! Time 3, BLCD4 = 50 ;  
SE\_3\_100 = m443x - m343x ; ! Time 3, BLCD4 = 100 ;  
SE\_3\_150 = m453x - m353x ; ! Time 3, BLCD4 = 150 ;  
SE\_3\_200 = m463x - m363x ; ! Time 3, BLCD4 = 200 ;  
SE\_3\_300 = m483x - m383x ; ! Time 3, BLCD4 = 300 ;

! Differences: SA - WA ;

SW\_1\_25 = m411x - m211x ; ! Time 1, BLCD4 = 25 ;  
SW\_1\_50 = m421x - m221x ; ! Time 1, BLCD4 = 50 ;  
SW\_1\_100 = m441x - m241x ; ! Time 1, BLCD4 = 100 ;  
SW\_1\_150 = m451x - m251x ; ! Time 1, BLCD4 = 150 ;  
SW\_1\_200 = m461x - m261x ; ! Time 1, BLCD4 = 200 ;  
SW\_1\_300 = m481x - m281x ; ! Time 1, BLCD4 = 300 ;

SW\_2\_25 = m412x - m212x ; ! Time 2, BLCD4 = 25 ;  
SW\_2\_50 = m422x - m222x ; ! Time 2, BLCD4 = 50 ;  
SW\_2\_100 = m442x - m242x ; ! Time 2, BLCD4 = 100 ;  
SW\_2\_150 = m452x - m252x ; ! Time 2, BLCD4 = 150 ;  
SW\_2\_200 = m462x - m262x ; ! Time 2, BLCD4 = 200 ;  
SW\_2\_300 = m482x - m282x ; ! Time 2, BLCD4 = 300 ;

SW\_3\_25 = m413x - m213x ; ! Time 3, BLCD4 = 25 ;  
SW\_3\_50 = m423x - m223x ; ! Time 3, BLCD4 = 50 ;  
SW\_3\_100 = m443x - m243x ; ! Time 3, BLCD4 = 100 ;  
SW\_3\_150 = m453x - m253x ; ! Time 3, BLCD4 = 150 ;  
SW\_3\_200 = m463x - m263x ; ! Time 3, BLCD4 = 200 ;  
SW\_3\_300 = m483x - m283x ; ! Time 3, BLCD4 = 300 ;

! Differences: SA - ASIA ;

SA\_1\_25 = m411x - m511x ; ! Time 1, BLCD4 = 25 ;  
SA\_1\_50 = m421x - m521x ; ! Time 1, BLCD4 = 50 ;  
SA\_1\_100 = m441x - m541x ; ! Time 1, BLCD4 = 100 ;  
SA\_1\_150 = m451x - m551x ; ! Time 1, BLCD4 = 150 ;  
SA\_1\_200 = m461x - m561x ; ! Time 1, BLCD4 = 200 ;  
SA\_1\_300 = m481x - m581x ; ! Time 1, BLCD4 = 300 ;

SA\_2\_25 = m412x - m512x ; ! Time 2, BLCD4 = 25 ;  
SA\_2\_50 = m422x - m522x ; ! Time 2, BLCD4 = 50 ;  
SA\_2\_100 = m442x - m542x ; ! Time 2, BLCD4 = 100 ;  
SA\_2\_150 = m452x - m552x ; ! Time 2, BLCD4 = 150 ;  
SA\_2\_200 = m462x - m562x ; ! Time 2, BLCD4 = 200 ;  
SA\_2\_300 = m482x - m582x ; ! Time 2, BLCD4 = 300 ;

SA\_3\_25 = m413x - m513x ; ! Time 3, BLCD4 = 25 ;  
SA\_3\_50 = m423x - m523x ; ! Time 3, BLCD4 = 50 ;  
SA\_3\_100 = m443x - m543x ; ! Time 3, BLCD4 = 100 ;  
SA\_3\_150 = m453x - m553x ; ! Time 3, BLCD4 = 150 ;  
SA\_3\_200 = m463x - m563x ; ! Time 3, BLCD4 = 200 ;  
SA\_3\_300 = m483x - m583x ; ! Time 3, BLCD4 = 300 ;

! Differences: EA - WA ;

EW\_1\_25 = m311x - m211x ; ! Time 1, BLCD4 = 25 ;  
EW\_1\_50 = m321x - m221x ; ! Time 1, BLCD4 = 50 ;  
EW\_1\_100 = m341x - m241x ; ! Time 1, BLCD4 = 100 ;  
EW\_1\_150 = m351x - m251x ; ! Time 1, BLCD4 = 150 ;  
EW\_1\_200 = m361x - m261x ; ! Time 1, BLCD4 = 200 ;  
EW\_1\_300 = m381x - m281x ; ! Time 1, BLCD4 = 300 ;

EW\_2\_25 = m312x - m212x ; ! Time 2, BLCD4 = 25 ;  
EW\_2\_50 = m322x - m222x ; ! Time 2, BLCD4 = 50 ;  
EW\_2\_100 = m342x - m242x ; ! Time 2, BLCD4 = 100 ;  
EW\_2\_150 = m352x - m252x ; ! Time 2, BLCD4 = 150 ;  
EW\_2\_200 = m362x - m262x ; ! Time 2, BLCD4 = 200 ;  
EW\_2\_300 = m382x - m282x ; ! Time 2, BLCD4 = 300 ;

EW\_3\_25 = m313x - m213x ; ! Time 3, BLCD4 = 25 ;  
EW\_3\_50 = m323x - m223x ; ! Time 3, BLCD4 = 50 ;  
EW\_3\_100 = m343x - m243x ; ! Time 3, BLCD4 = 100 ;  
EW\_3\_150 = m353x - m253x ; ! Time 3, BLCD4 = 150 ;  
EW\_3\_200 = m363x - m263x ; ! Time 3, BLCD4 = 200 ;  
EW\_3\_300 = m383x - m283x ; ! Time 3, BLCD4 = 300 ;

! Differences: EA - ASIA ;

EA\_1\_25 = m311x - m511x ; ! Time 1, BLCD4 = 25 ;  
EA\_1\_50 = m321x - m521x ; ! Time 1, BLCD4 = 50 ;  
EA\_1\_100 = m341x - m541x ; ! Time 1, BLCD4 = 100 ;  
EA\_1\_150 = m351x - m551x ; ! Time 1, BLCD4 = 150 ;  
EA\_1\_200 = m361x - m561x ; ! Time 1, BLCD4 = 200 ;  
EA\_1\_300 = m381x - m581x ; ! Time 1, BLCD4 = 300 ;

EA\_2\_25 = m312x - m512x ; ! Time 2, BLCD4 = 25 ;  
EA\_2\_50 = m322x - m522x ; ! Time 2, BLCD4 = 50 ;  
EA\_2\_100 = m342x - m542x ; ! Time 2, BLCD4 = 100 ;  
EA\_2\_150 = m352x - m552x ; ! Time 2, BLCD4 = 150 ;  
EA\_2\_200 = m362x - m562x ; ! Time 2, BLCD4 = 200 ;  
EA\_2\_300 = m382x - m582x ; ! Time 2, BLCD4 = 300 ;

EA\_3\_25 = m313x - m513x ; ! Time 3, BLCD4 = 25 ;  
EA\_3\_50 = m323x - m523x ; ! Time 3, BLCD4 = 50 ;  
EA\_3\_100 = m343x - m543x ; ! Time 3, BLCD4 = 100 ;  
EA\_3\_150 = m353x - m553x ; ! Time 3, BLCD4 = 150 ;  
EA\_3\_200 = m363x - m563x ; ! Time 3, BLCD4 = 200 ;  
EA\_3\_300 = m383x - m583x ; ! Time 3, BLCD4 = 300 ;

! Differences: WA - ASIA ;

WA\_1\_25 = m211x - m511x ; ! Time 1, BLCD4 = 25 ;  
WA\_1\_50 = m221x - m521x ; ! Time 1, BLCD4 = 50 ;  
WA\_1\_100 = m241x - m541x ; ! Time 1, BLCD4 = 100 ;  
WA\_1\_150 = m251x - m551x ; ! Time 1, BLCD4 = 150 ;  
WA\_1\_200 = m261x - m561x ; ! Time 1, BLCD4 = 200 ;  
WA\_1\_300 = m281x - m581x ; ! Time 1, BLCD4 = 300 ;

WA\_2\_25 = m212x - m512x ; ! Time 2, BLCD4 = 25 ;  
WA\_2\_50 = m222x - m522x ; ! Time 2, BLCD4 = 50 ;  
WA\_2\_100 = m242x - m542x ; ! Time 2, BLCD4 = 100 ;  
WA\_2\_150 = m252x - m552x ; ! Time 2, BLCD4 = 150 ;  
WA\_2\_200 = m262x - m562x ; ! Time 2, BLCD4 = 200 ;  
WA\_2\_300 = m282x - m582x ; ! Time 2, BLCD4 = 300 ;

WA\_3\_25 = m213x - m513x ; ! Time 3, BLCD4 = 25 ;  
WA\_3\_50 = m223x - m523x ; ! Time 3, BLCD4 = 50 ;  
WA\_3\_100 = m243x - m543x ; ! Time 3, BLCD4 = 100 ;  
WA\_3\_150 = m253x - m553x ; ! Time 3, BLCD4 = 150 ;  
WA\_3\_200 = m263x - m563x ; ! Time 3, BLCD4 = 200 ;  
WA\_3\_300 = m283x - m583x ; ! Time 3, BLCD4 = 300 ;

OUTPUT:

CINTERVAL TECH1 ;

INPUT READING TERMINATED NORMALLY

Square Root CD4 and ML estimation ;

SUMMARY OF ANALYSIS

Number of groups	5
Number of observations	
Group NA	25013
Group WA	1359
Group EA	5194
Group SA	65377
Group ASIA	3023
Number of dependent variables	1
Number of independent variables	14
Number of continuous latent variables	3

Observed dependent variables

  Continuous  
  SQRTCD4

Observed independent variables

LS0	LS1	LS2	CSEX	CAGE	BCD4SPX1
BCD4SPX2	BCD4SPX3	CBVLM2	CBVLM3	CBVLM4	CBVLM5
CAZTBL	CEFVBL				

Continuous latent variables

S0	S1	S2
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Variables with special functions

Grouping variable	SREGION	
Cluster variable	IDNO	
Within variables		
LS0	LS1	LS2

Between variables					
CSEX	CAGE	BCD4SPX1	BCD4SPX2	BCD4SPX3	CBVLM2
CBVLM3	CBVLM4	CBVLM5	CAZTBL	CEFVBL	

Estimator	ML
Information matrix	OBSERVED
Maximum number of iterations	100
Convergence criterion	0.100D-05
Maximum number of EM iterations	500
Convergence criteria for the EM algorithm	
Loglikelihood change	0.100D-02
Relative loglikelihood change	0.100D-05
Derivative	0.100D-03
Minimum variance	0.100D-03
Maximum number of steepest descent iterations	20
Maximum number of iterations for H1	2000
Convergence criterion for H1	0.100D-03
Optimization algorithm	EMA

Input data file(s)

H:\My Documents\Transfer\Elvin\2010\_10\Stata Data\tor\_0815\_reduced2.txt  
 Input data format FREE

SUMMARY OF DATA

Group NA	
Number of missing data patterns	2
Number of clusters	4450

Group WA	
Number of missing data patterns	2
Number of clusters	649

Group EA	
Number of missing data patterns	2
Number of clusters	803

Group SA	
Number of missing data patterns	6
Number of clusters	20323

Group ASIA

Number of missing data patterns 2  
 Number of clusters 593

COVARIANCE COVERAGE OF DATA

Minimum covariance coverage value 0.100

PROPORTION OF DATA PRESENT FOR NA

	Covariance Coverage				
	CBVLM2	CBVLM3	CBVLM4	CBVLM5	CAZTBL
CBVLM2	0.936				
CBVLM3	0.936	0.936			
CBVLM4	0.936	0.936	0.936		
CBVLM5	0.936	0.936	0.936	0.936	
CAZTBL	0.936	0.936	0.936	0.936	1.000
CEFVBL	0.936	0.936	0.936	0.936	1.000
SQRTCD4	0.936	0.936	0.936	0.936	1.000
LS0	0.936	0.936	0.936	0.936	1.000
LS1	0.936	0.936	0.936	0.936	1.000
LS2	0.936	0.936	0.936	0.936	1.000
CSEX	0.936	0.936	0.936	0.936	1.000
CAGE	0.936	0.936	0.936	0.936	1.000
BCD4SPX1	0.936	0.936	0.936	0.936	1.000
BCD4SPX2	0.936	0.936	0.936	0.936	1.000
BCD4SPX3	0.936	0.936	0.936	0.936	1.000

	Covariance Coverage				
	CEFVBL	SQRTCD4	LS0	LS1	LS2
CEFVBL	1.000				
SQRTCD4	1.000	1.000			
LS0	1.000	1.000	1.000		
LS1	1.000	1.000	1.000	1.000	
LS2	1.000	1.000	1.000	1.000	1.000
CSEX	1.000	1.000	1.000	1.000	1.000
CAGE	1.000	1.000	1.000	1.000	1.000
BCD4SPX1	1.000	1.000	1.000	1.000	1.000
BCD4SPX2	1.000	1.000	1.000	1.000	1.000
BCD4SPX3	1.000	1.000	1.000	1.000	1.000

	Covariance Coverage				
	CSEX	CAGE	BCD4SPX1	BCD4SPX2	BCD4SPX3
CSEX	1.000				
CAGE	1.000	1.000			
BCD4SPX1	1.000	1.000	1.000		
BCD4SPX2	1.000	1.000	1.000	1.000	
BCD4SPX3	1.000	1.000	1.000	1.000	1.000

PROPORTION OF DATA PRESENT FOR WA

	Covariance Coverage				
	CBVLM2	CBVLM3	CBVLM4	CBVLM5	CAZTBL

CBVLM2	0.383				
CBVLM3	0.383	0.383			
CBVLM4	0.383	0.383	0.383		
CBVLM5	0.383	0.383	0.383	0.383	
CAZTBL	0.383	0.383	0.383	0.383	1.000
CEFVBL	0.383	0.383	0.383	0.383	1.000
SQRTCD4	0.383	0.383	0.383	0.383	1.000
LS0	0.383	0.383	0.383	0.383	1.000
LS1	0.383	0.383	0.383	0.383	1.000
LS2	0.383	0.383	0.383	0.383	1.000
CSEX	0.383	0.383	0.383	0.383	1.000
CAGE	0.383	0.383	0.383	0.383	1.000
BCD4SPX1	0.383	0.383	0.383	0.383	1.000
BCD4SPX2	0.383	0.383	0.383	0.383	1.000
BCD4SPX3	0.383	0.383	0.383	0.383	1.000

Covariance Coverage

	CEFVBL	SQRTCD4	LS0	LS1	LS2
CEFVBL	1.000				
SQRTCD4	1.000	1.000			
LS0	1.000	1.000	1.000		
LS1	1.000	1.000	1.000	1.000	
LS2	1.000	1.000	1.000	1.000	1.000
CSEX	1.000	1.000	1.000	1.000	1.000
CAGE	1.000	1.000	1.000	1.000	1.000
BCD4SPX1	1.000	1.000	1.000	1.000	1.000
BCD4SPX2	1.000	1.000	1.000	1.000	1.000
BCD4SPX3	1.000	1.000	1.000	1.000	1.000

Covariance Coverage

	CSEX	CAGE	BCD4SPX1	BCD4SPX2	BCD4SPX3
CSEX	1.000				
CAGE	1.000	1.000			
BCD4SPX1	1.000	1.000	1.000		
BCD4SPX2	1.000	1.000	1.000	1.000	
BCD4SPX3	1.000	1.000	1.000	1.000	1.000

PROPORTION OF DATA PRESENT FOR EA

Covariance Coverage

	CBVLM2	CBVLM3	CBVLM4	CBVLM5	CAZTBL
CBVLM2	0.984				
CBVLM3	0.984	0.984			
CBVLM4	0.984	0.984	0.984		
CBVLM5	0.984	0.984	0.984	0.984	
CAZTBL	0.984	0.984	0.984	0.984	1.000
CEFVBL	0.984	0.984	0.984	0.984	1.000
SQRTCD4	0.984	0.984	0.984	0.984	1.000
LS0	0.984	0.984	0.984	0.984	1.000
LS1	0.984	0.984	0.984	0.984	1.000
LS2	0.984	0.984	0.984	0.984	1.000
CSEX	0.984	0.984	0.984	0.984	1.000
CAGE	0.984	0.984	0.984	0.984	1.000
BCD4SPX1	0.984	0.984	0.984	0.984	1.000
BCD4SPX2	0.984	0.984	0.984	0.984	1.000



	0.984	0.984	0.984	0.984	1.000
	Covariance Coverage				
	CEFVBL	SQRTCD4	LS0	LS1	LS2
CEFVBL	1.000				
SQRTCD4	1.000	1.000			
LS0	1.000	1.000	1.000		
LS1	1.000	1.000	1.000	1.000	
LS2	1.000	1.000	1.000	1.000	1.000
CSEX	1.000	1.000	1.000	1.000	1.000
CAGE	1.000	1.000	1.000	1.000	1.000
BCD4SPX1	1.000	1.000	1.000	1.000	1.000
BCD4SPX2	1.000	1.000	1.000	1.000	1.000
BCD4SPX3	1.000	1.000	1.000	1.000	1.000

	Covariance Coverage				
	CSEX	CAGE	BCD4SPX1	BCD4SPX2	BCD4SPX3
CSEX	1.000				
CAGE	1.000	1.000			
BCD4SPX1	1.000	1.000	1.000		
BCD4SPX2	1.000	1.000	1.000	1.000	
BCD4SPX3	1.000	1.000	1.000	1.000	1.000

PROPORTION OF DATA PRESENT FOR SA

	Covariance Coverage				
	CBVLM2	CBVLM3	CBVLM4	CBVLM5	CAZTBL
CBVLM2	0.672				
CBVLM3	0.672	0.672			
CBVLM4	0.672	0.672	0.672		
CBVLM5	0.672	0.672	0.672	0.672	
CAZTBL	0.633	0.633	0.633	0.633	0.956
CEFVBL	0.630	0.630	0.630	0.630	0.953
SQRTCD4	0.672	0.672	0.672	0.672	0.956
LS0	0.672	0.672	0.672	0.672	0.956
LS1	0.672	0.672	0.672	0.672	0.956
LS2	0.672	0.672	0.672	0.672	0.956
CSEX	0.672	0.672	0.672	0.672	0.956
CAGE	0.672	0.672	0.672	0.672	0.956
BCD4SPX1	0.672	0.672	0.672	0.672	0.956
BCD4SPX2	0.672	0.672	0.672	0.672	0.956
BCD4SPX3	0.672	0.672	0.672	0.672	0.956

	Covariance Coverage				
	CEFVBL	SQRTCD4	LS0	LS1	LS2
CEFVBL	0.953				
SQRTCD4	0.953	1.000			
LS0	0.953	1.000	1.000		
LS1	0.953	1.000	1.000	1.000	
LS2	0.953	1.000	1.000	1.000	1.000
CSEX	0.953	1.000	1.000	1.000	1.000
CAGE	0.953	1.000	1.000	1.000	1.000
BCD4SPX1	0.953	1.000	1.000	1.000	1.000
BCD4SPX2	0.953	1.000	1.000	1.000	1.000

	0.953	1.000	1.000	1.000	1.000
	Covariance Coverage				
	CSEX	CAGE	BCD4SPX1	BCD4SPX2	BCD4SPX3
CSEX	1.000				
CAGE	1.000	1.000			
BCD4SPX1	1.000	1.000	1.000		
BCD4SPX2	1.000	1.000	1.000	1.000	
BCD4SPX3	1.000	1.000	1.000	1.000	1.000

PROPORTION OF DATA PRESENT FOR ASIA

	Covariance Coverage				
	CBVLM2	CBVLM3	CBVLM4	CBVLM5	CAZTBL
CBVLM2	0.825				
CBVLM3	0.825	0.825			
CBVLM4	0.825	0.825	0.825		
CBVLM5	0.825	0.825	0.825	0.825	
CAZTBL	0.825	0.825	0.825	0.825	1.000
CEFVBL	0.825	0.825	0.825	0.825	1.000
SQRTCD4	0.825	0.825	0.825	0.825	1.000
LS0	0.825	0.825	0.825	0.825	1.000
LS1	0.825	0.825	0.825	0.825	1.000
LS2	0.825	0.825	0.825	0.825	1.000
CSEX	0.825	0.825	0.825	0.825	1.000
CAGE	0.825	0.825	0.825	0.825	1.000
BCD4SPX1	0.825	0.825	0.825	0.825	1.000
BCD4SPX2	0.825	0.825	0.825	0.825	1.000
BCD4SPX3	0.825	0.825	0.825	0.825	1.000

	Covariance Coverage				
	CEFVBL	SQRTCD4	LS0	LS1	LS2
CEFVBL	1.000				
SQRTCD4	1.000	1.000			
LS0	1.000	1.000	1.000		
LS1	1.000	1.000	1.000	1.000	
LS2	1.000	1.000	1.000	1.000	1.000
CSEX	1.000	1.000	1.000	1.000	1.000
CAGE	1.000	1.000	1.000	1.000	1.000
BCD4SPX1	1.000	1.000	1.000	1.000	1.000
BCD4SPX2	1.000	1.000	1.000	1.000	1.000
BCD4SPX3	1.000	1.000	1.000	1.000	1.000

	Covariance Coverage				
	CSEX	CAGE	BCD4SPX1	BCD4SPX2	BCD4SPX3
CSEX	1.000				
CAGE	1.000	1.000			
BCD4SPX1	1.000	1.000	1.000		
BCD4SPX2	1.000	1.000	1.000	1.000	
BCD4SPX3	1.000	1.000	1.000	1.000	1.000

THE STANDARD ERRORS OF THE MODEL PARAMETER ESTIMATES MAY NOT BE TRUSTWORTHY FOR SOME PARAMETERS DUE TO A NON-POSITIVE DEFINITE

FIRST-ORDER DERIVATIVE PRODUCT MATRIX. THIS MAY BE DUE TO THE STARTING VALUES BUT MAY ALSO BE AN INDICATION OF MODEL NONIDENTIFICATION. THE CONDITION NUMBER IS 0.265D-16. PROBLEM INVOLVING PARAMETER 31.

THE MODEL ESTIMATION TERMINATED NORMALLY

MODEL FIT INFORMATION

Number of Free Parameters 110

Loglikelihood

H0 Value -308286.726

Information Criteria

Akaike (AIC) 616793.451  
 Bayesian (BIC) 617839.836  
 Sample-Size Adjusted BIC 617490.252  
 (n\* = (n + 2) / 24)

MODEL RESULTS

	Estimate	S.E.	Est./S.E.	Two-Tailed P-Value
Group NA				
Within Level				
Residual Variances				
SQRTCD4	3.205	0.038	84.777	0.000
Between Level				
SQRTCD4 ON				
BCD4SPX1	0.066	0.003	19.641	0.000
BCD4SPX2	-0.102	0.015	-7.010	0.000
BCD4SPX3	0.190	0.032	6.006	0.000
CSEX	-0.729	0.042	-17.186	0.000
CAGE	-0.044	0.002	-20.092	0.000
CBVLM2	-0.087	0.082	-1.060	0.289
CBVLM3	0.191	0.075	2.542	0.011
CBVLM4	0.627	0.077	8.146	0.000
CBVLM5	1.456	0.079	18.344	0.000
CAZTBL	-0.069	0.049	-1.414	0.157
CEFVBL	-0.252	0.044	-5.725	0.000
SQRTCD4 WITH				
S0	0.203	0.107	1.899	0.058
S1	-0.004	0.026	-0.149	0.881
S2	-0.039	0.011	-3.556	0.000
S0 WITH				
S1	0.064	0.017	3.873	0.000
S2	-0.003	0.008	-0.383	0.702
S1 WITH				

S2	0.010	0.001	7.570	0.000
Means				
CBVLM2	0.002	0.003	0.742	0.458
CBVLM3	-0.008	0.003	-2.423	0.015
CBVLM4	-0.027	0.003	-8.549	0.000
CBVLM5	-0.013	0.003	-4.524	0.000
CAZTBL	-0.045	0.003	-17.373	0.000
CEFVBL	-0.007	0.003	-2.538	0.011
S0	0.278	0.031	8.975	0.000
S1	0.295	0.007	39.556	0.000
S2	0.132	0.003	40.182	0.000
Intercepts				
SQRTCD4	9.920	0.148	67.239	0.000
Variances				
CBVLM2	0.138	0.001	94.289	0.000
CBVLM3	0.190	0.002	94.289	0.000
CBVLM4	0.173	0.002	94.286	0.000
CBVLM5	0.157	0.002	94.287	0.000
CAZTBL	0.178	0.002	114.645	0.000
CEFVBL	0.219	0.002	114.313	0.000
S0	0.127	0.069	1.845	0.065
S1	0.068	0.005	14.898	0.000
S2	0.010	0.001	14.135	0.000
Residual Variances				
SQRTCD4	6.675	0.234	28.535	0.000
Group WA				
Within Level				
Residual Variances				
SQRTCD4	5.577	0.393	14.202	0.000
Between Level				
SQRTCD4 ON				
BCD4SPX1	0.052	0.009	5.757	0.000
BCD4SPX2	-0.061	0.039	-1.540	0.123
BCD4SPX3	0.108	0.087	1.243	0.214
CSEX	-0.729	0.042	-17.186	0.000
CAGE	-0.044	0.002	-20.092	0.000
CBVLM2	-0.087	0.082	-1.060	0.289
CBVLM3	0.191	0.075	2.542	0.011
CBVLM4	0.627	0.077	8.146	0.000
CBVLM5	1.456	0.079	18.344	0.000
CAZTBL	-0.069	0.049	-1.414	0.157
CEFVBL	-0.252	0.044	-5.725	0.000
SQRTCD4 WITH				
S0	-0.616	1.041	-0.591	0.554
S1	-0.008	0.143	-0.055	0.956
S2	0.030	0.138	0.219	0.827
S0 WITH				
S1	0.024	0.184	0.128	0.899
S2	-0.046	0.312	-0.148	0.882
S1 WITH				
S2	0.006	0.014	0.394	0.694

Means

CBVLM2	0.002	0.003	0.742	0.458
CBVLM3	-0.008	0.003	-2.423	0.015
CBVLM4	-0.027	0.003	-8.549	0.000
CBVLM5	-0.013	0.003	-4.524	0.000
CAZTBL	-0.045	0.003	-17.373	0.000
CEFVBL	-0.007	0.003	-2.538	0.011
S0	-0.080	0.276	-0.291	0.771
S1	0.216	0.029	7.521	0.000
S2	0.158	0.030	5.235	0.000

Intercepts

SQRTCD4	10.383	0.424	24.496	0.000
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Variances

CBVLM2	0.138	0.001	94.289	0.000
CBVLM3	0.190	0.002	94.289	0.000
CBVLM4	0.173	0.002	94.286	0.000
CBVLM5	0.157	0.002	94.287	0.000
CAZTBL	0.178	0.002	114.645	0.000
CEFVBL	0.219	0.002	114.313	0.000
S0	1.233	1.234	1.000	0.317
S1	0.023	0.026	0.873	0.383
S2	0.006	0.010	0.657	0.511

Residual Variances

SQRTCD4	5.513	1.008	5.470	0.000
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Group EA

Within Level

Residual Variances

SQRTCD4	4.623	0.122	37.806	0.000
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Between Level

SQRTCD4 ON

BCD4SPX1	0.032	0.006	5.170	0.000
BCD4SPX2	0.017	0.028	0.616	0.538
BCD4SPX3	-0.066	0.063	-1.037	0.300
CSEX	-0.729	0.042	-17.186	0.000
CAGE	-0.044	0.002	-20.092	0.000
CBVLM2	-0.087	0.082	-1.060	0.289
CBVLM3	0.191	0.075	2.542	0.011
CBVLM4	0.627	0.077	8.146	0.000
CBVLM5	1.456	0.079	18.344	0.000
CAZTBL	-0.069	0.049	-1.414	0.157
CEFVBL	-0.252	0.044	-5.725	0.000

SQRTCD4 WITH

S0	-0.363	0.521	-0.697	0.486
S1	0.012	0.085	0.136	0.892
S2	-0.060	0.025	-2.372	0.018

S0 WITH

S1	0.055	0.081	0.679	0.497
S2	-0.017	0.027	-0.644	0.520

S1 WITH

S2	0.003	0.004	0.711	0.477
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Means				
CBVLM2	0.002	0.003	0.742	0.458
CBVLM3	-0.008	0.003	-2.423	0.015
CBVLM4	-0.027	0.003	-8.549	0.000
CBVLM5	-0.013	0.003	-4.524	0.000
CAZTBL	-0.045	0.003	-17.373	0.000
CEFVBL	-0.007	0.003	-2.538	0.011
S0	0.245	0.124	1.968	0.049
S1	0.154	0.019	7.954	0.000
S2	0.153	0.007	20.867	0.000
Intercepts				
SQRTCD4	10.389	0.287	36.189	0.000
Variances				
CBVLM2	0.138	0.001	94.289	0.000
CBVLM3	0.190	0.002	94.289	0.000
CBVLM4	0.173	0.002	94.286	0.000
CBVLM5	0.157	0.002	94.287	0.000
CAZTBL	0.178	0.002	114.645	0.000
CEFVBL	0.219	0.002	114.313	0.000
S0	0.255	0.610	0.419	0.675
S1	0.060	0.015	3.897	0.000
S2	0.011	0.002	6.287	0.000
Residual Variances				
SQRTCD4	4.644	0.647	7.179	0.000
Group SA				
Within Level				
Residual Variances				
SQRTCD4	3.444	0.030	114.104	0.000
Between Level				
SQRTCD4	ON			
BCD4SPX1	0.040	0.001	27.016	0.000
BCD4SPX2	-0.031	0.007	-4.532	0.000
BCD4SPX3	0.052	0.015	3.375	0.001
CSEX	-0.729	0.042	-17.186	0.000
CAGE	-0.044	0.002	-20.092	0.000
CBVLM2	-0.087	0.082	-1.060	0.289
CBVLM3	0.191	0.075	2.542	0.011
CBVLM4	0.627	0.077	8.146	0.000
CBVLM5	1.456	0.079	18.344	0.000
CAZTBL	-0.069	0.049	-1.414	0.157
CEFVBL	-0.252	0.044	-5.725	0.000
SQRTCD4	WITH			
S0	0.899	0.140	6.410	0.000
S1	-0.136	0.017	-7.835	0.000
S2	-0.081	0.010	-8.242	0.000
S0	WITH			
S1	0.055	0.019	2.825	0.005
S2	-0.004	0.013	-0.318	0.751
S1	WITH			
S2	0.011	0.001	9.198	0.000
Means				

CBVLM2	0.002	0.003	0.742	0.458
CBVLM3	-0.008	0.003	-2.423	0.015
CBVLM4	-0.027	0.003	-8.549	0.000
CBVLM5	-0.013	0.003	-4.524	0.000
CAZTBL	-0.045	0.003	-17.373	0.000
CEFVBL	-0.007	0.003	-2.538	0.011
S0	0.568	0.039	14.501	0.000
S1	0.312	0.004	74.068	0.000
S2	0.195	0.003	77.380	0.000
Intercepts				
SQRTCD4	11.109	0.069	161.197	0.000
Variances				
CBVLM2	0.138	0.001	94.289	0.000
CBVLM3	0.190	0.002	94.289	0.000
CBVLM4	0.173	0.002	94.286	0.000
CBVLM5	0.157	0.002	94.287	0.000
CAZTBL	0.178	0.002	114.645	0.000
CEFVBL	0.219	0.002	114.313	0.000
S0	1.543	0.134	11.558	0.000
S1	0.076	0.003	25.130	0.000
S2	0.015	0.001	20.152	0.000
Residual Variances				
SQRTCD4	7.932	0.144	54.963	0.000
Group ASIA				
Within Level				
Residual Variances				
SQRTCD4	2.707	0.095	28.350	0.000
Between Level				
SQRTCD4 ON				
BCD4SPX1	0.057	0.008	6.817	0.000
BCD4SPX2	-0.064	0.037	-1.723	0.085
BCD4SPX3	0.108	0.083	1.301	0.193
CSEX	-0.729	0.042	-17.186	0.000
CAGE	-0.044	0.002	-20.092	0.000
CBVLM2	-0.087	0.082	-1.060	0.289
CBVLM3	0.191	0.075	2.542	0.011
CBVLM4	0.627	0.077	8.146	0.000
CBVLM5	1.456	0.079	18.344	0.000
CAZTBL	-0.069	0.049	-1.414	0.157
CEFVBL	-0.252	0.044	-5.725	0.000
SQRTCD4 WITH				
S0	0.403	0.331	1.215	0.224
S1	-0.049	0.067	-0.737	0.461
S2	-0.084	0.032	-2.610	0.009
S0 WITH				
S1	0.034	0.040	0.853	0.394
S2	-0.011	0.018	-0.613	0.540
S1 WITH				
S2	0.013	0.004	3.492	0.000
Means				
CBVLM2	0.002	0.003	0.742	0.458

CBVLM3	-0.008	0.003	-2.423	0.015
CBVLM4	-0.027	0.003	-8.549	0.000
CBVLM5	-0.013	0.003	-4.524	0.000
CAZTBL	-0.045	0.003	-17.373	0.000
CEFVBL	-0.007	0.003	-2.538	0.011
S0	0.249	0.089	2.807	0.005
S1	0.304	0.018	17.253	0.000
S2	0.151	0.010	15.637	0.000
Intercepts				
SQRTCD4	9.512	0.339	28.050	0.000
Variances				
CBVLM2	0.138	0.001	94.289	0.000
CBVLM3	0.190	0.002	94.289	0.000
CBVLM4	0.173	0.002	94.286	0.000
CBVLM5	0.157	0.002	94.287	0.000
CAZTBL	0.178	0.002	114.645	0.000
CEFVBL	0.219	0.002	114.313	0.000
S0	0.176	0.219	0.804	0.421
S1	0.041	0.010	4.050	0.000
S2	0.009	0.002	4.200	0.000
Residual Variances				
SQRTCD4	6.662	0.644	10.351	0.000
New/Additional Parameters				
M111	11.563	0.094	123.311	0.000
M121	13.116	0.091	144.916	0.000
M141	15.489	0.102	151.678	0.000
M151	16.975	0.079	214.172	0.000
M161	18.313	0.084	218.035	0.000
M181	21.095	0.092	228.139	0.000
M211	11.687	0.272	42.998	0.000
M221	12.937	0.244	52.937	0.000
M241	14.998	0.261	57.433	0.000
M251	16.503	0.215	76.861	0.000
M261	17.846	0.234	76.181	0.000
M281	20.454	0.314	65.193	0.000
M311	11.194	0.189	59.375	0.000
M321	12.014	0.176	68.349	0.000
M341	13.771	0.186	74.097	0.000
M351	15.508	0.170	91.090	0.000
M361	16.834	0.188	89.481	0.000
M381	18.612	0.359	51.787	0.000
M411	12.112	0.043	279.491	0.000
M421	13.087	0.038	342.344	0.000
M441	14.817	0.041	364.195	0.000
M451	16.254	0.040	410.888	0.000
M461	17.583	0.046	386.364	0.000
M481	20.147	0.118	170.665	0.000
M511	10.927	0.207	52.863	0.000
M521	12.285	0.213	57.664	0.000
M541	14.535	0.249	58.486	0.000
M551	16.160	0.201	80.541	0.000
M561	17.533	0.215	81.693	0.000
M581	20.038	0.361	55.442	0.000
M112	13.921	0.100	138.864	0.000
M122	15.473	0.097	159.801	0.000
M142	17.846	0.107	166.247	0.000
M152	19.333	0.086	225.348	0.000
M162	20.670	0.090	229.145	0.000
M182	23.452	0.098	238.646	0.000



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M212	13.416	0.283	47.406	0.000
M222	14.666	0.258	56.909	0.000
M242	16.728	0.275	60.746	0.000
M252	18.232	0.233	78.297	0.000
M262	19.575	0.250	78.416	0.000
M282	22.184	0.320	69.385	0.000
M312	12.426	0.191	65.110	0.000
M322	13.246	0.178	74.410	0.000
M342	15.004	0.188	79.956	0.000
M352	16.740	0.172	97.261	0.000
M362	18.066	0.190	95.083	0.000
M382	19.845	0.361	55.000	0.000
M412	14.610	0.045	321.374	0.000
M422	15.585	0.041	384.262	0.000
M442	17.315	0.043	403.511	0.000
M452	18.753	0.042	447.024	0.000
M462	20.081	0.047	423.108	0.000
M482	22.645	0.118	191.111	0.000
M512	13.357	0.212	63.100	0.000
M522	14.715	0.216	68.039	0.000
M542	16.965	0.250	67.732	0.000
M552	18.591	0.204	90.921	0.000
M562	19.964	0.219	91.265	0.000
M582	22.468	0.363	61.915	0.000
M113	17.091	0.123	138.968	0.000
M123	18.644	0.120	155.251	0.000
M143	21.017	0.129	163.478	0.000
M153	22.503	0.111	202.486	0.000
M163	23.840	0.115	208.080	0.000
M183	26.623	0.121	219.885	0.000
M213	17.197	0.724	23.740	0.000
M223	18.447	0.716	25.773	0.000
M243	20.509	0.722	28.411	0.000
M253	22.013	0.705	31.242	0.000
M263	23.356	0.710	32.888	0.000
M283	25.965	0.742	34.978	0.000
M313	16.109	0.228	70.598	0.000
M323	16.929	0.219	77.410	0.000
M343	18.687	0.228	82.045	0.000
M353	20.424	0.215	94.964	0.000
M363	21.749	0.229	94.830	0.000
M383	23.528	0.383	61.470	0.000
M413	19.299	0.070	275.042	0.000
M423	20.274	0.067	302.172	0.000
M443	22.004	0.069	320.885	0.000
M453	23.442	0.068	344.442	0.000
M463	24.770	0.072	345.455	0.000
M483	27.334	0.130	209.816	0.000
M513	16.987	0.296	57.354	0.000
M523	18.345	0.299	61.272	0.000
M543	20.595	0.324	63.592	0.000
M553	22.220	0.288	77.257	0.000
M563	23.593	0.297	79.503	0.000
M583	26.098	0.415	62.943	0.000
M111X	153.505	2.404	63.849	0.000
M121X	191.822	2.624	73.094	0.000
M141X	259.701	3.396	76.470	0.000
M151X	307.948	2.974	103.544	0.000
M161X	355.140	3.340	106.329	0.000
M181X	464.795	4.159	111.767	0.000
M211X	171.651	28.826	5.955	0.000
M221X	202.421	28.740	7.043	0.000
M241X	260.014	29.054	8.949	0.000

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M251X	307.410	28.954	10.617	0.000
M261X	353.545	29.350	12.046	0.000
M281X	453.436	30.850	14.698	0.000
M311X	146.724	6.506	22.553	0.000
M321X	165.757	6.576	25.206	0.000
M341X	211.079	7.257	29.086	0.000
M351X	261.930	7.348	35.645	0.000
M361X	304.800	8.074	37.750	0.000
M381X	367.846	14.185	25.933	0.000
M411X	173.050	2.027	85.383	0.000
M421X	197.626	2.006	98.502	0.000
M441X	245.886	2.124	115.787	0.000
M451X	290.560	2.174	133.632	0.000
M461X	335.523	2.376	141.224	0.000
M481X	432.268	5.071	85.236	0.000
M511X	135.783	5.217	26.026	0.000
M521X	167.304	5.922	28.250	0.000
M541X	227.638	7.804	29.170	0.000
M551X	277.536	7.124	38.959	0.000
M561X	323.799	8.141	39.776	0.000
M581X	417.900	14.995	27.870	0.000
M112X	213.580	2.953	72.334	0.000
M122X	259.216	3.181	81.501	0.000
M142X	338.283	4.016	84.223	0.000
M152X	393.537	3.541	111.148	0.000
M162X	447.034	3.941	113.427	0.000
M182X	569.808	4.825	118.088	0.000
M212X	215.066	29.201	7.365	0.000
M222X	250.157	29.110	8.593	0.000
M242X	314.882	29.533	10.662	0.000
M252X	367.482	29.426	12.488	0.000
M262X	418.262	29.891	13.993	0.000
M282X	527.174	31.545	16.712	0.000
M312X	175.831	6.844	25.691	0.000
M322X	196.885	6.897	28.545	0.000
M342X	246.539	7.627	32.325	0.000
M352X	301.670	7.699	39.185	0.000
M362X	347.808	8.489	40.972	0.000
M382X	415.238	15.065	27.563	0.000
M412X	239.804	2.190	109.506	0.000
M422X	269.253	2.158	124.795	0.000
M442X	326.155	2.304	141.558	0.000
M452X	378.013	2.367	159.733	0.000
M462X	429.614	2.603	165.076	0.000
M482X	539.171	5.653	95.376	0.000
M512X	194.799	6.187	31.485	0.000
M522X	232.920	6.919	33.663	0.000
M542X	304.188	8.989	33.840	0.000
M552X	361.987	8.145	44.445	0.000
M562X	414.923	9.266	44.778	0.000
M582X	521.198	16.779	31.063	0.000
M113X	311.907	4.288	72.742	0.000
M123X	367.389	4.585	80.135	0.000
M143X	461.503	5.526	83.512	0.000
M153X	526.181	5.142	102.326	0.000
M163X	588.159	5.601	105.011	0.000
M183X	728.577	6.598	110.420	0.000
M213X	330.816	33.252	9.949	0.000
M223X	375.356	33.963	11.052	0.000
M243X	455.671	35.942	12.678	0.000
M253X	519.649	36.852	14.101	0.000
M263X	580.586	38.430	15.108	0.000
M283X	709.220	42.544	16.670	0.000

M313X	280.931	8.932	31.454	0.000
M323X	308.026	9.051	34.034	0.000
M343X	370.628	10.056	36.856	0.000
M353X	438.553	10.271	42.699	0.000
M363X	494.455	11.252	43.945	0.000
M383X	574.987	18.655	30.822	0.000
M413X	398.800	3.181	125.381	0.000
M423X	437.395	3.195	136.911	0.000
M443X	510.517	3.456	147.703	0.000
M453X	575.858	3.610	159.508	0.000
M463X	639.921	3.934	162.684	0.000
M483X	773.523	7.319	105.688	0.000
M513X	304.945	10.451	29.178	0.000
M523X	352.924	11.411	30.929	0.000
M543X	440.523	13.758	32.018	0.000
M553X	510.124	13.225	38.573	0.000
M563X	573.027	14.458	39.634	0.000
M583X	697.484	22.105	31.553	0.000
NS_1_25	-19.544	3.164	-6.178	0.000
NS_1_50	-5.804	3.331	-1.742	0.081
NS_1_100	13.815	4.046	3.414	0.001
NS_1_150	17.387	3.735	4.656	0.000
NS_1_200	19.617	4.136	4.743	0.000
NS_1_300	32.526	6.559	4.959	0.000
NS_2_25	-26.224	3.699	-7.090	0.000
NS_2_50	-10.036	3.875	-2.590	0.010
NS_2_100	12.128	4.676	2.594	0.009
NS_2_150	15.524	4.314	3.599	0.000
NS_2_200	17.420	4.761	3.659	0.000
NS_2_300	30.637	7.431	4.123	0.000
NS_3_25	-86.893	5.365	-16.195	0.000
NS_3_50	-70.007	5.623	-12.450	0.000
NS_3_100	-49.014	6.567	-7.463	0.000
NS_3_150	-49.677	6.339	-7.837	0.000
NS_3_200	-51.762	6.884	-7.520	0.000
NS_3_300	-44.946	9.854	-4.561	0.000
NE_1_25	6.781	6.925	0.979	0.327
NE_1_50	26.065	7.066	3.689	0.000
NE_1_100	48.622	8.003	6.076	0.000
NE_1_150	46.018	7.925	5.807	0.000
NE_1_200	50.340	8.740	5.760	0.000
NE_1_300	96.948	14.786	6.557	0.000
NE_2_25	37.749	7.438	5.075	0.000
NE_2_50	62.332	7.576	8.227	0.000
NE_2_100	91.745	8.606	10.661	0.000
NE_2_150	91.867	8.468	10.849	0.000
NE_2_200	99.226	9.357	10.604	0.000
NE_2_300	154.570	15.821	9.770	0.000
NE_3_25	30.976	9.890	3.132	0.002
NE_3_50	59.363	10.125	5.863	0.000
NE_3_100	90.875	11.460	7.930	0.000
NE_3_150	87.628	11.481	7.632	0.000
NE_3_200	93.703	12.568	7.455	0.000
NE_3_300	153.590	19.792	7.760	0.000
NW_1_25	-18.146	28.925	-0.627	0.530
NW_1_50	-10.599	28.858	-0.367	0.713
NW_1_100	-0.313	29.249	-0.011	0.991
NW_1_150	0.538	29.106	0.018	0.985
NW_1_200	1.595	29.540	0.054	0.957
NW_1_300	11.359	31.127	0.365	0.715
NW_2_25	-1.486	29.349	-0.051	0.960
NW_2_50	9.059	29.281	0.309	0.757
NW_2_100	23.401	29.801	0.785	0.432

NW_2_150	26.055	29.637	0.879	0.379
NW_2_200	28.772	30.150	0.954	0.340
NW_2_300	42.634	31.909	1.336	0.182
NW_3_25	-18.909	33.524	-0.564	0.573
NW_3_50	-7.968	34.266	-0.233	0.816
NW_3_100	5.832	36.360	0.160	0.873
NW_3_150	6.532	37.208	0.176	0.861
NW_3_200	7.573	38.837	0.195	0.845
NW_3_300	19.357	43.051	0.450	0.653
NA_1_25	17.722	5.736	3.090	0.002
NA_1_50	24.518	6.470	3.789	0.000
NA_1_100	32.063	8.506	3.769	0.000
NA_1_150	30.411	7.709	3.945	0.000
NA_1_200	31.341	8.783	3.568	0.000
NA_1_300	46.894	15.544	3.017	0.003
NA_2_25	18.781	6.844	2.744	0.006
NA_2_50	26.297	7.605	3.458	0.001
NA_2_100	34.096	9.838	3.466	0.001
NA_2_150	31.550	8.866	3.558	0.000
NA_2_200	32.111	10.049	3.195	0.001
NA_2_300	48.610	17.439	2.788	0.005
NA_3_25	6.962	11.282	0.617	0.537
NA_3_50	14.465	12.285	1.177	0.239
NA_3_100	20.980	14.817	1.416	0.157
NA_3_150	16.057	14.174	1.133	0.257
NA_3_200	15.131	15.484	0.977	0.328
NA_3_300	31.092	23.047	1.349	0.177
SE_1_25	26.325	6.823	3.858	0.000
SE_1_50	31.869	6.884	4.629	0.000
SE_1_100	34.808	7.570	4.598	0.000
SE_1_150	28.631	7.671	3.732	0.000
SE_1_200	30.723	8.419	3.649	0.000
SE_1_300	64.422	15.043	4.282	0.000
SE_2_25	63.973	7.196	8.890	0.000
SE_2_50	72.368	7.236	10.001	0.000
SE_2_100	79.616	7.976	9.982	0.000
SE_2_150	76.342	8.062	9.469	0.000
SE_2_200	81.806	8.880	9.213	0.000
SE_2_300	123.933	16.064	7.715	0.000
SE_3_25	117.869	9.493	12.417	0.000
SE_3_50	129.369	9.608	13.465	0.000
SE_3_100	139.889	10.642	13.145	0.000
SE_3_150	137.305	10.894	12.603	0.000
SE_3_200	145.466	11.920	12.204	0.000
SE_3_300	198.536	20.010	9.922	0.000
SW_1_25	1.398	28.900	0.048	0.961
SW_1_50	-4.795	28.813	-0.166	0.868
SW_1_100	-14.128	29.132	-0.485	0.628
SW_1_150	-16.850	29.035	-0.580	0.562
SW_1_200	-18.022	29.443	-0.612	0.540
SW_1_300	-21.167	31.254	-0.677	0.498
SW_2_25	24.738	29.287	0.845	0.398
SW_2_50	19.095	29.193	0.654	0.513
SW_2_100	11.273	29.624	0.381	0.704
SW_2_150	10.530	29.520	0.357	0.721
SW_2_200	11.352	30.001	0.378	0.705
SW_2_300	11.996	32.036	0.374	0.708
SW_3_25	67.985	33.407	2.035	0.042
SW_3_50	62.039	34.115	1.819	0.069
SW_3_100	54.846	36.109	1.519	0.129
SW_3_150	56.209	37.028	1.518	0.129
SW_3_200	59.335	38.629	1.536	0.125
SW_3_300	64.304	43.161	1.490	0.136

SA_1_25	37.267	5.603	6.651	0.000
SA_1_50	30.322	6.257	4.846	0.000
SA_1_100	18.248	8.090	2.256	0.024
SA_1_150	13.024	7.451	1.748	0.080
SA_1_200	11.724	8.481	1.382	0.167
SA_1_300	14.368	15.817	0.908	0.364
SA_2_25	45.005	6.570	6.850	0.000
SA_2_50	36.333	7.252	5.010	0.000
SA_2_100	21.967	9.281	2.367	0.018
SA_2_150	16.026	8.484	1.889	0.059
SA_2_200	14.691	9.624	1.527	0.127
SA_2_300	17.973	17.690	1.016	0.310
SA_3_25	93.856	10.931	8.586	0.000
SA_3_50	84.471	11.854	7.126	0.000
SA_3_100	69.994	14.188	4.933	0.000
SA_3_150	65.734	13.712	4.794	0.000
SA_3_200	66.893	14.984	4.464	0.000
SA_3_300	76.039	23.271	3.267	0.001
EW_1_25	-24.927	29.544	-0.844	0.399
EW_1_50	-36.664	29.473	-1.244	0.214
EW_1_100	-48.935	29.931	-1.635	0.102
EW_1_150	-45.480	29.854	-1.523	0.128
EW_1_200	-48.744	30.420	-1.602	0.109
EW_1_300	-85.589	33.932	-2.522	0.012
EW_2_25	-39.235	29.983	-1.309	0.191
EW_2_50	-53.273	29.903	-1.781	0.075
EW_2_100	-68.343	30.484	-2.242	0.025
EW_2_150	-65.812	30.395	-2.165	0.030
EW_2_200	-70.455	31.050	-2.269	0.023
EW_2_300	-111.937	34.932	-3.204	0.001
EW_3_25	-49.885	34.420	-1.449	0.147
EW_3_50	-67.331	35.134	-1.916	0.055
EW_3_100	-85.043	37.306	-2.280	0.023
EW_3_150	-81.096	38.240	-2.121	0.034
EW_3_200	-86.131	40.027	-2.152	0.031
EW_3_300	-134.233	46.437	-2.891	0.004
EA_1_25	10.941	8.309	1.317	0.188
EA_1_50	-1.547	8.820	-0.175	0.861
EA_1_100	-16.559	10.633	-1.557	0.119
EA_1_150	-15.607	10.208	-1.529	0.126
EA_1_200	-18.999	11.439	-1.661	0.097
EA_1_300	-50.054	20.619	-2.428	0.015
EA_2_25	-18.968	9.189	-2.064	0.039
EA_2_50	-36.035	9.735	-3.701	0.000
EA_2_100	-57.649	11.762	-4.901	0.000
EA_2_150	-60.317	11.177	-5.396	0.000
EA_2_200	-67.115	12.536	-5.354	0.000
EA_2_300	-105.960	22.526	-4.704	0.000
EA_3_25	-24.014	13.708	-1.752	0.080
EA_3_50	-44.898	14.528	-3.090	0.002
EA_3_100	-69.895	17.015	-4.108	0.000
EA_3_150	-71.571	16.717	-4.281	0.000
EA_3_200	-78.572	18.293	-4.295	0.000
EA_3_300	-122.498	28.902	-4.238	0.000
WA_1_25	35.869	29.288	1.225	0.221
WA_1_50	35.117	29.336	1.197	0.231
WA_1_100	32.376	30.073	1.077	0.282
WA_1_150	29.874	29.808	1.002	0.316
WA_1_200	29.746	30.449	0.977	0.329
WA_1_300	35.535	34.290	1.036	0.300
WA_2_25	20.267	29.840	0.679	0.497
WA_2_50	17.238	29.909	0.576	0.564
WA_2_100	10.694	30.856	0.347	0.729

WA_2_150	5.495	30.520	0.180	0.857
WA_2_200	3.340	31.284	0.107	0.915
WA_2_300	5.977	35.716	0.167	0.867
WA_3_25	25.871	34.847	0.742	0.458
WA_3_50	22.432	35.816	0.626	0.531
WA_3_100	15.148	38.473	0.394	0.694
WA_3_150	9.525	39.145	0.243	0.808
WA_3_200	7.558	41.054	0.184	0.854
WA_3_300	11.735	47.936	0.245	0.807
U1	16.586	1.231	13.470	0.000
U2	29.487	28.111	1.049	0.294
U3	16.805	5.048	3.329	0.001
U4	22.910	1.758	13.029	0.000
U5	13.671	2.938	4.653	0.000

QUALITY OF NUMERICAL RESULTS

Condition Number for the Information Matrix 0.265E-16  
 (ratio of smallest to largest eigenvalue)

CONFIDENCE INTERVALS OF MODEL RESULTS

	Lower .5%	Lower 2.5%	Lower 5%	Estimate	Upper 5%	Upper 2.5%
Upper .5%						
Group NA						
Within Level						
Residual Variances						
SQRTCD4	3.108	3.131	3.143	3.205	3.267	3.279
3.303						
Between Level						
SQRTCD4 ON						
BCD4SPX1	0.057	0.059	0.061	0.066	0.072	0.073
0.075						
BCD4SPX2	-0.139	-0.130	-0.126	-0.102	-0.078	-0.073
-0.064						
BCD4SPX3	0.109	0.128	0.138	0.190	0.242	0.252
0.272						
CSEX	-0.838	-0.812	-0.799	-0.729	-0.659	-0.646
-0.620						
CAGE	-0.049	-0.048	-0.047	-0.044	-0.040	-0.040
-0.038						
CBVLM2	-0.298	-0.247	-0.222	-0.087	0.048	0.074
0.124						
CBVLM3	-0.003	0.044	0.067	0.191	0.315	0.338
0.385						
CBVLM4	0.429	0.476	0.501	0.627	0.754	0.778
0.826						
CBVLM5	1.252	1.300	1.325	1.456	1.587	1.612
1.660						
CAZTBL	-0.196	-0.165	-0.150	-0.069	0.011	0.027
0.057						
CEFVBL	-0.366	-0.339	-0.325	-0.252	-0.180	-0.166
-0.139						
SQRTCD4 WITH						
S0	-0.072	-0.007	0.027	0.203	0.378	0.412

0.478						
S1	-0.071	-0.055	-0.047	-0.004	0.039	0.047
0.063						
S2	-0.067	-0.061	-0.057	-0.039	-0.021	-0.018
-0.011						
S0	WITH					
S1	0.022	0.032	0.037	0.064	0.092	0.097
0.107						
S2	-0.023	-0.018	-0.015	-0.003	0.010	0.012
0.017						
S1	WITH					
S2	0.007	0.008	0.008	0.010	0.013	0.013
0.014						
Means						
CBVLM2	-0.005	-0.003	-0.003	0.002	0.007	0.008
0.009						
CBVLM3	-0.016	-0.014	-0.013	-0.008	-0.003	-0.002
0.000						
CBVLM4	-0.035	-0.033	-0.032	-0.027	-0.022	-0.021
-0.019						
CBVLM5	-0.021	-0.019	-0.018	-0.013	-0.009	-0.008
-0.006						
CAZTBL	-0.052	-0.050	-0.049	-0.045	-0.041	-0.040
-0.038						
CEFVBL	-0.015	-0.013	-0.012	-0.007	-0.003	-0.002
0.000						
S0	0.198	0.217	0.227	0.278	0.328	0.338
0.357						
S1	0.275	0.280	0.282	0.295	0.307	0.309
0.314						
S2	0.124	0.126	0.127	0.132	0.138	0.139
0.141						
Intercepts						
SQRTCD4	9.540	9.631	9.678	9.920	10.163	10.209
10.300						
Variances						
CBVLM2	0.135	0.135	0.136	0.138	0.141	0.141
0.142						
CBVLM3	0.185	0.186	0.186	0.190	0.193	0.194
0.195						
CBVLM4	0.168	0.169	0.170	0.173	0.176	0.177
0.178						
CBVLM5	0.153	0.154	0.155	0.157	0.160	0.161
0.162						
CAZTBL	0.174	0.175	0.175	0.178	0.180	0.181
0.182						
CEFVBL	0.214	0.215	0.216	0.219	0.222	0.223
0.224						
S0	-0.050	-0.008	0.014	0.127	0.241	0.263
0.305						
S1	0.057	0.059	0.061	0.068	0.076	0.077
0.080						
S2	0.008	0.009	0.009	0.010	0.011	0.012
0.012						
Residual Variances						
SQRTCD4	6.073	6.217	6.290	6.675	7.060	7.134
7.278						

Group WA

Within Level

Residual Variances

SQRTCD4	4.565	4.807	4.931	5.577	6.223	6.346
6.588						

Between Level

SQRTCD4 ON

BCD4SPX1	0.029	0.035	0.037	0.052	0.067	0.070
0.076						
BCD4SPX2	-0.162	-0.138	-0.125	-0.061	0.004	0.017
0.041						
BCD4SPX3	-0.116	-0.062	-0.035	0.108	0.251	0.278
0.331						
CSEX	-0.838	-0.812	-0.799	-0.729	-0.659	-0.646
-0.620						
CAGE	-0.049	-0.048	-0.047	-0.044	-0.040	-0.040
-0.038						
CBVLM2	-0.298	-0.247	-0.222	-0.087	0.048	0.074
0.124						
CBVLM3	-0.003	0.044	0.067	0.191	0.315	0.338
0.385						
CBVLM4	0.429	0.476	0.501	0.627	0.754	0.778
0.826						
CBVLM5	1.252	1.300	1.325	1.456	1.587	1.612
1.660						
CAZTBL	-0.196	-0.165	-0.150	-0.069	0.011	0.027
0.057						
CEFVBL	-0.366	-0.339	-0.325	-0.252	-0.180	-0.166
-0.139						

SQRTCD4 WITH

S0	-3.297	-2.656	-2.328	-0.616	1.097	1.425
2.066						
S1	-0.375	-0.287	-0.242	-0.008	0.227	0.272
0.360						
S2	-0.325	-0.240	-0.196	0.030	0.257	0.300
0.385						

S0 WITH

S1	-0.451	-0.338	-0.280	0.024	0.327	0.385
0.498						
S2	-0.849	-0.657	-0.559	-0.046	0.467	0.565
0.757						

S1 WITH

S2	-0.031	-0.022	-0.018	0.006	0.029	0.033
0.042						

Means

CBVLM2	-0.005	-0.003	-0.003	0.002	0.007	0.008
0.009						
CBVLM3	-0.016	-0.014	-0.013	-0.008	-0.003	-0.002
0.000						
CBVLM4	-0.035	-0.033	-0.032	-0.027	-0.022	-0.021
-0.019						
CBVLM5	-0.021	-0.019	-0.018	-0.013	-0.009	-0.008
-0.006						
CAZTBL	-0.052	-0.050	-0.049	-0.045	-0.041	-0.040



-0.038						
CEFVBL	-0.015	-0.013	-0.012	-0.007	-0.003	-0.002
0.000						
S0	-0.792	-0.622	-0.535	-0.080	0.374	0.461
0.631						
S1	0.142	0.160	0.169	0.216	0.263	0.273
0.290						
S2	0.080	0.099	0.108	0.158	0.207	0.217
0.235						
Intercepts						
SQRTCD4	9.292	9.553	9.686	10.383	11.081	11.214
11.475						
Variances						
CBVLM2	0.135	0.135	0.136	0.138	0.141	0.141
0.142						
CBVLM3	0.185	0.186	0.186	0.190	0.193	0.194
0.195						
CBVLM4	0.168	0.169	0.170	0.173	0.176	0.177
0.178						
CBVLM5	0.153	0.154	0.155	0.157	0.160	0.161
0.162						
CAZTBL	0.174	0.175	0.175	0.178	0.180	0.181
0.182						
CEFVBL	0.214	0.215	0.216	0.219	0.222	0.223
0.224						
S0	-1.944	-1.184	-0.796	1.233	3.263	3.651
4.411						
S1	-0.044	-0.028	-0.020	0.023	0.066	0.074
0.090						
S2	-0.019	-0.013	-0.010	0.006	0.022	0.025
0.031						
Residual Variances						
SQRTCD4	2.917	3.538	3.855	5.513	7.170	7.488
8.108						
Group EA						
Within Level						
Residual Variances						
SQRTCD4	4.308	4.384	4.422	4.623	4.825	4.863
4.938						
Between Level						
SQRTCD4 ON						
BCD4SPX1	0.016	0.020	0.022	0.032	0.042	0.044
0.048						
BCD4SPX2	-0.055	-0.038	-0.029	0.017	0.063	0.072
0.090						
BCD4SPX3	-0.229	-0.190	-0.170	-0.066	0.039	0.059
0.098						
CSEX	-0.838	-0.812	-0.799	-0.729	-0.659	-0.646
-0.620						
CAGE	-0.049	-0.048	-0.047	-0.044	-0.040	-0.040
-0.038						
CBVLM2	-0.298	-0.247	-0.222	-0.087	0.048	0.074
0.124						
CBVLM3	-0.003	0.044	0.067	0.191	0.315	0.338
0.385						

CBVLM4	0.429	0.476	0.501	0.627	0.754	0.778
0.826						
CBVLM5	1.252	1.300	1.325	1.456	1.587	1.612
1.660						
CAZTBL	-0.196	-0.165	-0.150	-0.069	0.011	0.027
0.057						
CEFVBL	-0.366	-0.339	-0.325	-0.252	-0.180	-0.166
-0.139						
SQRTCD4 WITH						
S0	-1.704	-1.384	-1.220	-0.363	0.493	0.657
0.978						
S1	-0.206	-0.154	-0.128	0.012	0.151	0.177
0.229						
S2	-0.125	-0.109	-0.101	-0.060	-0.018	-0.010
0.005						
S0 WITH						
S1	-0.154	-0.104	-0.078	0.055	0.188	0.214
0.263						
S2	-0.087	-0.071	-0.062	-0.017	0.027	0.036
0.052						
S1 WITH						
S2	-0.008	-0.005	-0.004	0.003	0.010	0.011
0.013						
Means						
CBVLM2	-0.005	-0.003	-0.003	0.002	0.007	0.008
0.009						
CBVLM3	-0.016	-0.014	-0.013	-0.008	-0.003	-0.002
0.000						
CBVLM4	-0.035	-0.033	-0.032	-0.027	-0.022	-0.021
-0.019						
CBVLM5	-0.021	-0.019	-0.018	-0.013	-0.009	-0.008
-0.006						
CAZTBL	-0.052	-0.050	-0.049	-0.045	-0.041	-0.040
-0.038						
CEFVBL	-0.015	-0.013	-0.012	-0.007	-0.003	-0.002
0.000						
S0	-0.076	0.001	0.040	0.245	0.449	0.489
0.565						
S1	0.104	0.116	0.122	0.154	0.186	0.192
0.204						
S2	0.135	0.139	0.141	0.153	0.166	0.168
0.172						
Intercepts						
SQRTCD4	9.649	9.826	9.917	10.389	10.861	10.952
11.128						
Variances						
CBVLM2	0.135	0.135	0.136	0.138	0.141	0.141
0.142						
CBVLM3	0.185	0.186	0.186	0.190	0.193	0.194
0.195						
CBVLM4	0.168	0.169	0.170	0.173	0.176	0.177
0.178						
CBVLM5	0.153	0.154	0.155	0.157	0.160	0.161
0.162						
CAZTBL	0.174	0.175	0.175	0.178	0.180	0.181
0.182						
CEFVBL	0.214	0.215	0.216	0.219	0.222	0.223

0.224						
S0	-1.315	-0.939	-0.747	0.255	1.258	1.450
1.825						
S1	0.020	0.030	0.035	0.060	0.086	0.090
0.100						
S2	0.007	0.008	0.008	0.011	0.014	0.015
0.016						
Residual Variances						
SQRTCD4	2.978	3.376	3.580	4.644	5.708	5.912
6.310						
Group SA						
Within Level						
Residual Variances						
SQRTCD4	3.366	3.385	3.394	3.444	3.494	3.503
3.522						
Between Level						
SQRTCD4 ON						
BCD4SPX1	0.036	0.037	0.038	0.040	0.043	0.043
0.044						
BCD4SPX2	-0.048	-0.044	-0.042	-0.031	-0.019	-0.017
-0.013						
BCD4SPX3	0.012	0.022	0.027	0.052	0.078	0.083
0.092						
CSEX	-0.838	-0.812	-0.799	-0.729	-0.659	-0.646
-0.620						
CAGE	-0.049	-0.048	-0.047	-0.044	-0.040	-0.040
-0.038						
CBVLM2	-0.298	-0.247	-0.222	-0.087	0.048	0.074
0.124						
CBVLM3	-0.003	0.044	0.067	0.191	0.315	0.338
0.385						
CBVLM4	0.429	0.476	0.501	0.627	0.754	0.778
0.826						
CBVLM5	1.252	1.300	1.325	1.456	1.587	1.612
1.660						
CAZTBL	-0.196	-0.165	-0.150	-0.069	0.011	0.027
0.057						
CEFVBL	-0.366	-0.339	-0.325	-0.252	-0.180	-0.166
-0.139						
SQRTCD4 WITH						
S0	0.538	0.624	0.669	0.899	1.130	1.174
1.261						
S1	-0.180	-0.170	-0.164	-0.136	-0.107	-0.102
-0.091						
S2	-0.106	-0.100	-0.097	-0.081	-0.065	-0.062
-0.055						
S0 WITH						
S1	0.005	0.017	0.023	0.055	0.086	0.092
0.104						
S2	-0.039	-0.030	-0.026	-0.004	0.018	0.022
0.030						
S1 WITH						
S2	0.008	0.009	0.009	0.011	0.013	0.014
0.014						

Means						
CBVLM2	-0.005	-0.003	-0.003	0.002	0.007	0.008
0.009						
CBVLM3	-0.016	-0.014	-0.013	-0.008	-0.003	-0.002
0.000						
CBVLM4	-0.035	-0.033	-0.032	-0.027	-0.022	-0.021
-0.019						
CBVLM5	-0.021	-0.019	-0.018	-0.013	-0.009	-0.008
-0.006						
CAZTBL	-0.052	-0.050	-0.049	-0.045	-0.041	-0.040
-0.038						
CEFVBL	-0.015	-0.013	-0.012	-0.007	-0.003	-0.002
0.000						
S0	0.467	0.492	0.504	0.568	0.633	0.645
0.669						
S1	0.301	0.304	0.305	0.312	0.319	0.321
0.323						
S2	0.189	0.190	0.191	0.195	0.200	0.200
0.202						
Intercepts						
SQRTCD4	10.932	10.974	10.996	11.109	11.223	11.244
11.287						
Variances						
CBVLM2	0.135	0.135	0.136	0.138	0.141	0.141
0.142						
CBVLM3	0.185	0.186	0.186	0.190	0.193	0.194
0.195						
CBVLM4	0.168	0.169	0.170	0.173	0.176	0.177
0.178						
CBVLM5	0.153	0.154	0.155	0.157	0.160	0.161
0.162						
CAZTBL	0.174	0.175	0.175	0.178	0.180	0.181
0.182						
CEFVBL	0.214	0.215	0.216	0.219	0.222	0.223
0.224						
S0	1.199	1.282	1.324	1.543	1.763	1.805
1.887						
S1	0.069	0.070	0.071	0.076	0.081	0.082
0.084						
S2	0.013	0.013	0.013	0.015	0.016	0.016
0.016						
Residual Variances						
SQRTCD4	7.560	7.649	7.694	7.932	8.169	8.215
8.303						
Group ASIA						
Within Level						
Residual Variances						
SQRTCD4	2.461	2.519	2.550	2.707	2.864	2.894
2.953						
Between Level						
SQRTCD4 ON						
BCD4SPX1	0.035	0.040	0.043	0.057	0.071	0.073
0.078						
BCD4SPX2	-0.161	-0.138	-0.126	-0.064	-0.003	0.009

0.032						
BCD4SPX3	-0.106	-0.055	-0.029	0.108	0.245	0.272
0.323						
CSEX	-0.838	-0.812	-0.799	-0.729	-0.659	-0.646
-0.620						
CAGE	-0.049	-0.048	-0.047	-0.044	-0.040	-0.040
-0.038						
CBVLM2	-0.298	-0.247	-0.222	-0.087	0.048	0.074
0.124						
CBVLM3	-0.003	0.044	0.067	0.191	0.315	0.338
0.385						
CBVLM4	0.429	0.476	0.501	0.627	0.754	0.778
0.826						
CBVLM5	1.252	1.300	1.325	1.456	1.587	1.612
1.660						
CAZTBL	-0.196	-0.165	-0.150	-0.069	0.011	0.027
0.057						
CEFVBL	-0.366	-0.339	-0.325	-0.252	-0.180	-0.166
-0.139						
SQRTCD4 WITH						
S0	-0.451	-0.247	-0.143	0.403	0.948	1.052
1.256						
S1	-0.221	-0.180	-0.159	-0.049	0.061	0.082
0.123						
S2	-0.166	-0.146	-0.136	-0.084	-0.031	-0.021
-0.001						
S0 WITH						
S1	-0.068	-0.044	-0.031	0.034	0.099	0.112
0.136						
S2	-0.057	-0.046	-0.040	-0.011	0.018	0.024
0.035						
S1 WITH						
S2	0.003	0.006	0.007	0.013	0.019	0.020
0.022						
Means						
CBVLM2	-0.005	-0.003	-0.003	0.002	0.007	0.008
0.009						
CBVLM3	-0.016	-0.014	-0.013	-0.008	-0.003	-0.002
0.000						
CBVLM4	-0.035	-0.033	-0.032	-0.027	-0.022	-0.021
-0.019						
CBVLM5	-0.021	-0.019	-0.018	-0.013	-0.009	-0.008
-0.006						
CAZTBL	-0.052	-0.050	-0.049	-0.045	-0.041	-0.040
-0.038						
CEFVBL	-0.015	-0.013	-0.012	-0.007	-0.003	-0.002
0.000						
S0	0.021	0.075	0.103	0.249	0.395	0.423
0.477						
S1	0.258	0.269	0.275	0.304	0.333	0.338
0.349						
S2	0.126	0.132	0.135	0.151	0.167	0.170
0.176						
Intercepts						
SQRTCD4	8.639	8.847	8.954	9.512	10.070	10.177
10.385						
Variances						

CBVLM2	0.135	0.135	0.136	0.138	0.141	0.141
0.142						
CBVLM3	0.185	0.186	0.186	0.190	0.193	0.194
0.195						
CBVLM4	0.168	0.169	0.170	0.173	0.176	0.177
0.178						
CBVLM5	0.153	0.154	0.155	0.157	0.160	0.161
0.162						
CAZTBL	0.174	0.175	0.175	0.178	0.180	0.181
0.182						
CEFVBL	0.214	0.215	0.216	0.219	0.222	0.223
0.224						
S0	-0.388	-0.253	-0.184	0.176	0.537	0.606
0.741						
S1	0.015	0.021	0.024	0.041	0.058	0.061
0.067						
S2	0.004	0.005	0.006	0.009	0.013	0.014
0.015						
Residual Variances						
SQRTCD4	5.004	5.401	5.604	6.662	7.721	7.924
8.320						
New/Additional Parameters						
M111	11.322	11.380	11.409	11.563	11.718	11.747
11.805						
M121	12.883	12.939	12.967	13.116	13.265	13.293
13.349						
M141	15.226	15.289	15.321	15.489	15.657	15.689
15.752						
M151	16.771	16.820	16.845	16.975	17.106	17.131
17.179						
M161	18.096	18.148	18.174	18.313	18.451	18.477
18.529						
M181	20.857	20.914	20.943	21.095	21.247	21.276
21.333						
M211	10.987	11.154	11.240	11.687	12.134	12.220
12.387						
M221	12.307	12.458	12.535	12.937	13.339	13.416
13.566						
M241	14.326	14.486	14.569	14.998	15.428	15.510
15.671						
M251	15.950	16.082	16.150	16.503	16.856	16.924
17.056						
M261	17.243	17.387	17.461	17.846	18.231	18.305
18.449						
M281	19.646	19.839	19.938	20.454	20.970	21.069
21.262						
M311	10.708	10.824	10.883	11.194	11.504	11.563
11.679						
M321	11.561	11.669	11.725	12.014	12.303	12.358
12.466						
M341	13.293	13.407	13.466	13.771	14.077	14.136
14.250						
M351	15.070	15.174	15.228	15.508	15.788	15.842
15.947						
M361	16.349	16.465	16.524	16.834	17.143	17.202
17.318						
M381	17.687	17.908	18.021	18.612	19.204	19.317
19.538						
M411	12.000	12.027	12.041	12.112	12.183	12.197
12.223						
M421	12.989	13.012	13.024	13.087	13.150	13.162

13.186						
M441	14.712	14.737	14.750	14.817	14.884	14.896
14.921						
M451	16.153	16.177	16.189	16.254	16.320	16.332
16.356						
M461	17.466	17.494	17.508	17.583	17.658	17.672
17.700						
M481	19.843	19.916	19.953	20.147	20.342	20.379
20.451						
M511	10.395	10.522	10.587	10.927	11.267	11.332
11.460						
M521	11.736	11.868	11.935	12.285	12.636	12.703
12.834						
M541	13.895	14.048	14.126	14.535	14.944	15.022
15.175						
M551	15.644	15.767	15.830	16.160	16.490	16.554
16.677						
M561	16.981	17.113	17.180	17.533	17.887	17.954
18.086						
M581	19.107	19.330	19.444	20.038	20.633	20.746
20.969						
M112	13.663	13.724	13.756	13.921	14.086	14.117
14.179						
M122	15.224	15.284	15.314	15.473	15.633	15.663
15.723						
M142	17.570	17.636	17.670	17.846	18.023	18.057
18.123						
M152	19.112	19.164	19.191	19.333	19.474	19.501
19.553						
M162	20.438	20.493	20.521	20.670	20.818	20.847
20.902						
M182	23.199	23.260	23.291	23.452	23.614	23.645
23.706						
M212	12.687	12.862	12.951	13.416	13.882	13.971
14.145						
M222	14.002	14.161	14.242	14.666	15.090	15.171
15.330						
M242	16.018	16.188	16.275	16.728	17.181	17.267
17.437						
M252	17.633	17.776	17.849	18.232	18.615	18.689
18.832						
M262	18.932	19.086	19.165	19.575	19.986	20.065
20.218						
M282	21.360	21.557	21.658	22.184	22.709	22.810
23.007						
M312	11.934	12.052	12.112	12.426	12.740	12.800
12.917						
M322	12.787	12.897	12.953	13.246	13.539	13.595
13.705						
M342	14.520	14.636	14.695	15.004	15.312	15.371
15.487						
M352	16.297	16.403	16.457	16.740	17.024	17.078
17.184						
M362	17.577	17.694	17.753	18.066	18.379	18.438
18.555						
M382	18.915	19.137	19.251	19.845	20.438	20.552
20.774						
M412	14.493	14.521	14.535	14.610	14.685	14.699
14.727						
M422	15.481	15.506	15.518	15.585	15.652	15.665
15.690						
M442	17.204	17.231	17.244	17.315	17.385	17.399
17.425						

M452	18.645	18.670	18.684	18.753	18.822	18.835
18.861						
M462	19.959	19.988	20.003	20.081	20.159	20.174
20.204						
M482	22.340	22.413	22.451	22.645	22.840	22.878
22.951						
M512	12.812	12.943	13.009	13.357	13.706	13.772
13.903						
M522	14.158	14.291	14.360	14.715	15.071	15.139
15.272						
M542	16.320	16.474	16.553	16.965	17.377	17.456
17.610						
M552	18.064	18.190	18.254	18.591	18.927	18.991
19.117						
M562	19.400	19.535	19.604	19.964	20.323	20.392
20.527						
M582	21.533	21.757	21.871	22.468	23.065	23.179
23.403						
M113	16.775	16.850	16.889	17.091	17.294	17.332
17.408						
M123	18.335	18.409	18.446	18.644	18.842	18.879
18.953						
M143	20.686	20.765	20.805	21.017	21.228	21.269
21.348						
M153	22.217	22.285	22.320	22.503	22.686	22.721
22.789						
M163	23.545	23.616	23.652	23.840	24.029	24.065
24.136						
M183	26.311	26.386	26.424	26.623	26.822	26.860
26.935						
M213	15.332	15.778	16.006	17.197	18.389	18.617
19.063						
M223	16.603	17.044	17.270	18.447	19.624	19.850
20.291						
M243	18.649	19.094	19.321	20.509	21.696	21.924
22.368						
M253	20.198	20.632	20.854	22.013	23.172	23.394
23.828						
M263	21.527	21.964	22.188	23.356	24.525	24.748
25.186						
M283	24.052	24.510	24.743	25.965	27.186	27.419
27.877						
M313	15.521	15.662	15.734	16.109	16.484	16.556
16.697						
M323	16.366	16.501	16.569	16.929	17.289	17.358
17.493						
M343	18.100	18.240	18.312	18.687	19.062	19.133
19.274						
M353	19.870	20.002	20.070	20.424	20.777	20.845
20.978						
M363	21.158	21.300	21.372	21.749	22.126	22.199
22.340						
M383	22.542	22.778	22.898	23.528	24.157	24.278
24.514						
M413	19.118	19.161	19.183	19.299	19.414	19.436
19.480						
M423	20.101	20.143	20.164	20.274	20.385	20.406
20.447						
M443	21.827	21.869	21.891	22.004	22.117	22.138
22.180						
M453	23.266	23.308	23.330	23.442	23.553	23.575
23.617						
M463	24.586	24.630	24.652	24.770	24.888	24.911



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24.955						
M483	26.999	27.079	27.120	27.334	27.549	27.590
27.670						
M513	16.224	16.407	16.500	16.987	17.475	17.568
17.750						
M523	17.574	17.758	17.853	18.345	18.838	18.932
19.116						
M543	19.761	19.960	20.062	20.595	21.128	21.230
21.429						
M553	21.480	21.657	21.747	22.220	22.694	22.784
22.961						
M563	22.829	23.012	23.105	23.593	24.082	24.175
24.358						
M583	25.030	25.285	25.416	26.098	26.780	26.911
27.166						
M111X	147.313	148.793	149.550	153.505	157.460	158.218
159.698						
M121X	185.062	186.678	187.505	191.822	196.139	196.965
198.581						
M141X	250.953	253.045	254.114	259.701	265.288	266.357
268.449						
M151X	300.287	302.119	303.056	307.948	312.840	313.777
315.609						
M161X	346.537	348.593	349.646	355.140	360.634	361.686
363.743						
M181X	454.083	456.644	457.954	464.795	471.636	472.946
475.506						
M211X	97.402	115.153	124.233	171.651	219.070	228.150
245.901						
M221X	128.391	146.090	155.143	202.421	249.699	258.752
276.450						
M241X	185.178	203.069	212.221	260.014	307.807	316.959
334.851						
M251X	232.831	250.661	259.781	307.410	355.039	364.160
381.990						
M261X	277.946	296.020	305.265	353.545	401.825	411.070
429.144						
M281X	373.972	392.970	402.687	453.436	504.184	513.901
532.899						
M311X	129.967	133.973	136.022	146.724	157.427	159.476
163.482						
M321X	148.818	152.868	154.939	165.757	176.574	178.646
182.696						
M341X	192.386	196.855	199.141	211.079	223.017	225.303
229.772						
M351X	243.002	247.527	249.842	261.930	274.018	276.332
280.857						
M361X	284.003	288.975	291.518	304.800	318.082	320.626
325.598						
M381X	331.309	340.044	344.513	367.846	391.180	395.648
404.383						
M411X	167.829	169.077	169.716	173.050	176.384	177.022
178.270						
M421X	192.458	193.693	194.325	197.626	200.926	201.558
202.793						
M441X	240.416	241.724	242.393	245.886	249.380	250.049
251.356						
M451X	284.960	286.299	286.984	290.560	294.137	294.822
296.161						
M461X	329.403	330.866	331.615	335.523	339.431	340.180
341.643						
M481X	419.205	422.328	423.926	432.268	440.611	442.209
445.332						

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M511X	122.344	125.557	127.201	135.783	144.365	146.009
149.221						
M521X	152.049	155.696	157.562	167.304	177.046	178.912
182.558						
M541X	207.537	212.343	214.801	227.638	240.476	242.934
247.739						
M551X	259.187	263.574	265.818	277.536	289.255	291.499
295.886						
M561X	302.830	307.843	310.408	323.799	337.190	339.755
344.768						
M581X	379.277	388.511	393.234	417.900	442.567	447.290
456.524						
M112X	205.975	207.793	208.723	213.580	218.437	219.367
221.186						
M122X	251.024	252.982	253.984	259.216	264.448	265.450
267.409						
M142X	327.938	330.411	331.676	338.283	344.891	346.156
348.629						
M152X	384.417	386.597	387.713	393.537	399.361	400.477
402.657						
M162X	436.883	439.310	440.551	447.034	453.517	454.759
457.186						
M182X	557.379	560.350	561.870	569.808	577.745	579.265
582.237						
M212X	139.850	157.832	167.031	215.066	263.102	272.300
290.282						
M222X	175.175	193.101	202.271	250.157	298.044	307.214
325.140						
M242X	238.810	256.997	266.300	314.882	363.464	372.767
390.953						
M252X	291.686	309.807	319.076	367.482	415.888	425.157
443.278						
M262X	341.269	359.676	369.092	418.262	467.433	476.849
495.256						
M282X	445.921	465.346	475.283	527.174	579.066	589.002
608.428						
M312X	158.202	162.417	164.573	175.831	187.090	189.246
193.460						
M322X	179.118	183.366	185.539	196.885	208.231	210.403
214.651						
M342X	226.893	231.590	233.993	246.539	259.085	261.488
266.184						
M352X	281.840	286.581	289.006	301.670	314.335	316.760
321.500						
M362X	325.942	331.169	333.843	347.808	361.772	364.446
369.674						
M382X	376.434	385.711	390.456	415.238	440.019	444.765
454.041						
M412X	234.163	235.512	236.202	239.804	243.406	244.096
245.445						
M422X	263.695	265.024	265.704	269.253	272.802	273.482
274.810						
M442X	320.220	321.639	322.365	326.155	329.945	330.671
332.090						
M452X	371.917	373.374	374.120	378.013	381.906	382.651
384.108						
M462X	422.911	424.513	425.333	429.614	433.895	434.715
436.318						
M482X	524.609	528.090	529.871	539.171	548.470	550.251
553.732						
M512X	178.862	182.672	184.621	194.799	204.976	206.925
210.735						
M522X	215.098	219.358	221.538	232.920	244.302	246.481

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250.742						
M542X	281.034	286.570	289.401	304.188	318.975	321.806
327.341						
M552X	341.008	346.023	348.589	361.987	375.385	377.950
382.966						
M562X	391.055	396.761	399.680	414.923	430.166	433.085
438.791						
M582X	477.978	488.311	493.596	521.198	548.799	554.084
564.417						
M113X	300.863	303.503	304.854	311.907	318.961	320.311
322.952						
M123X	355.580	358.403	359.847	367.389	374.930	376.374
379.198						
M143X	447.269	450.672	452.413	461.503	470.594	472.335
475.738						
M153X	512.936	516.102	517.722	526.181	534.640	536.260
539.426						
M163X	573.732	577.181	578.945	588.159	597.372	599.136
602.585						
M183X	711.581	715.644	717.723	728.577	739.431	741.509
745.573						
M213X	245.165	265.641	276.116	330.816	385.516	395.990
416.467						
M223X	287.875	308.790	319.488	375.356	431.225	441.923
462.838						
M243X	363.091	385.224	396.546	455.671	514.797	526.119
548.252						
M253X	424.726	447.419	459.028	519.649	580.270	591.879
614.572						
M263X	481.599	505.264	517.369	580.586	643.803	655.908
679.573						
M283X	599.635	625.833	639.235	709.220	779.205	792.606
818.805						
M313X	257.925	263.425	266.239	280.931	295.623	298.437
303.937						
M323X	284.713	290.287	293.138	308.026	322.914	325.765
331.339						
M343X	344.725	350.918	354.086	370.628	387.170	390.338
396.530						
M353X	412.097	418.422	421.657	438.553	455.448	458.684
465.008						
M363X	465.473	472.401	475.946	494.455	512.964	516.508
523.437						
M383X	526.935	538.423	544.299	574.987	605.675	611.551
623.039						
M413X	390.608	392.566	393.568	398.800	404.033	405.035
406.993						
M423X	429.166	431.134	432.140	437.395	442.651	443.657
445.624						
M443X	501.614	503.743	504.831	510.517	516.203	517.292
519.420						
M453X	566.559	568.782	569.919	575.858	581.797	582.934
585.157						
M463X	629.789	632.211	633.450	639.921	646.392	647.631
650.053						
M483X	754.671	759.178	761.484	773.523	785.563	787.868
792.375						
M513X	278.025	284.461	287.753	304.945	322.137	325.429
331.865						
M523X	323.532	330.559	334.153	352.924	371.695	375.289
382.316						
M543X	405.084	413.557	417.891	440.523	463.156	467.490
475.962						

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M553X	476.059	484.203	488.369	510.124	531.879	536.045
544.188						
M563X	535.786	544.690	549.244	573.027	596.811	601.365
610.268						
M583X	640.546	654.158	661.121	697.484	733.848	740.811
754.423						
NS_1_25	-27.693	-25.745	-24.749	-19.544	-14.340	-13.343
-11.395						
NS_1_50	-14.384	-12.332	-11.283	-5.804	-0.324	0.725
2.776						
NS_1_100	3.392	5.884	7.158	13.815	20.471	21.745
24.237						
NS_1_150	7.767	10.067	11.244	17.387	23.531	24.708
27.008						
NS_1_200	8.964	11.511	12.814	19.617	26.420	27.723
30.269						
NS_1_300	15.631	19.670	21.736	32.526	43.316	45.382
49.421						
NS_2_25	-35.752	-33.474	-32.309	-26.224	-20.139	-18.974
-16.696						
NS_2_50	-20.017	-17.631	-16.410	-10.036	-3.662	-2.442
-0.056						
NS_2_100	0.085	2.964	4.437	12.128	19.820	21.293
24.172						
NS_2_150	4.414	7.070	8.429	15.524	22.620	23.979
26.635						
NS_2_200	5.156	8.088	9.588	17.420	25.252	26.752
29.684						
NS_2_300	11.497	16.073	18.413	30.637	42.861	45.202
49.778						
NS_3_25	-100.714	-97.409	-95.719	-86.893	-78.067	-76.377
-73.073						
NS_3_50	-84.491	-81.028	-79.257	-70.007	-60.757	-58.985
-55.523						
NS_3_100	-65.930	-61.886	-59.817	-49.014	-38.211	-36.142
-32.098						
NS_3_150	-66.004	-62.101	-60.104	-49.677	-39.250	-37.254
-33.351						
NS_3_200	-69.493	-65.254	-63.086	-51.762	-40.439	-38.271
-34.032						
NS_3_300	-70.328	-64.260	-61.156	-44.946	-28.736	-25.632
-19.564						
NE_1_25	-11.056	-6.792	-4.610	6.781	18.172	20.353
24.618						
NE_1_50	7.864	12.215	14.441	26.065	37.689	39.915
44.266						
NE_1_100	28.009	32.937	35.458	48.622	61.786	64.307
69.235						
NE_1_150	25.604	30.485	32.981	46.018	59.055	61.552
66.432						
NE_1_200	27.828	33.210	35.963	50.340	64.716	67.469
72.851						
NE_1_300	58.861	67.967	72.625	96.948	121.272	125.930
135.035						
NE_2_25	18.589	23.170	25.513	37.749	49.985	52.328
56.909						
NE_2_50	42.816	47.482	49.869	62.332	74.795	77.181
81.847						
NE_2_100	69.577	74.877	77.588	91.745	105.901	108.612
113.912						
NE_2_150	70.055	75.270	77.937	91.867	105.797	108.464
113.678						
NE_2_200	75.124	80.886	83.833	99.226	114.619	117.567

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123.329						
NE_2_300	113.818	123.561	128.544	154.570	180.596	185.580
195.323						
NE_3_25	5.501	11.592	14.707	30.976	47.245	50.361
56.451						
NE_3_50	33.283	39.518	42.707	59.363	76.018	79.207
85.442						
NE_3_100	61.356	68.413	72.023	90.875	109.727	113.337
120.395						
NE_3_150	58.054	65.124	68.741	87.628	106.515	110.132
117.202						
NE_3_200	61.330	69.069	73.028	93.703	114.379	118.338
126.077						
NE_3_300	102.610	114.798	121.033	153.590	186.148	192.382
204.570						
NW_1_25	-92.652	-74.840	-65.728	-18.146	29.436	38.547
56.360						
NW_1_50	-84.932	-67.161	-58.071	-10.599	36.873	45.963
63.734						
NW_1_100	-75.653	-57.642	-48.428	-0.313	47.802	57.015
75.027						
NW_1_150	-74.433	-56.510	-47.341	0.538	48.417	57.585
75.508						
NW_1_200	-74.493	-56.302	-46.997	1.595	50.188	59.493
77.683						
NW_1_300	-68.817	-49.649	-39.844	11.359	62.563	72.367
91.535						
NW_2_25	-77.082	-59.009	-49.764	-1.486	46.793	56.037
74.110						
NW_2_50	-66.362	-48.331	-39.108	9.059	57.226	66.449
84.480						
NW_2_100	-53.361	-35.009	-25.622	23.401	72.425	81.812
100.164						
NW_2_150	-50.285	-32.035	-22.699	26.055	74.809	84.144
102.395						
NW_2_200	-48.889	-30.322	-20.825	28.772	78.369	87.866
106.432						
NW_2_300	-39.557	-19.908	-9.856	42.634	95.124	105.175
124.824						
NW_3_25	-105.260	-84.616	-74.056	-18.909	36.239	46.799
67.443						
NW_3_50	-96.229	-75.128	-64.335	-7.968	48.399	59.193
80.293						
NW_3_100	-87.824	-65.433	-53.980	5.832	65.644	77.097
99.488						
NW_3_150	-89.310	-66.397	-54.676	6.532	67.740	79.461
102.373						
NW_3_200	-92.464	-68.548	-56.315	7.573	71.460	83.694
107.610						
NW_3_300	-91.532	-65.022	-51.461	19.357	90.175	103.736
130.247						
NA_1_25	2.948	6.480	8.287	17.722	27.158	28.965
32.497						
NA_1_50	7.852	11.836	13.874	24.518	35.161	37.199
41.184						
NA_1_100	10.153	15.391	18.070	32.063	46.055	48.734
53.972						
NA_1_150	10.555	15.302	17.730	30.411	43.093	45.521
50.268						
NA_1_200	8.718	14.126	16.893	31.341	45.789	48.555
53.964						
NA_1_300	6.856	16.428	21.324	46.894	72.464	77.361
86.933						

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NA_2_25	1.153	5.367	7.523	18.781	30.039	32.195
36.410						
NA_2_50	6.707	11.391	13.786	26.297	38.807	41.202
45.886						
NA_2_100	8.754	14.812	17.911	34.096	50.280	53.379
59.437						
NA_2_150	8.712	14.172	16.965	31.550	46.135	48.928
54.388						
NA_2_200	6.227	12.415	15.581	32.111	48.642	51.807
57.995						
NA_2_300	3.692	14.431	19.924	48.610	77.297	82.790
93.529						
NA_3_25	-22.098	-15.151	-11.597	6.962	25.522	29.076
36.023						
NA_3_50	-17.178	-9.613	-5.744	14.465	34.673	38.543
46.107						
NA_3_100	-17.186	-8.061	-3.394	20.980	45.354	50.021
59.145						
NA_3_150	-20.451	-11.723	-7.258	16.057	39.373	43.837
52.565						
NA_3_200	-24.752	-15.217	-10.340	15.131	40.602	45.479
55.014						
NA_3_300	-28.271	-14.079	-6.819	31.092	69.004	76.264
90.456						
SE_1_25	8.750	12.952	15.101	26.325	37.549	39.698
43.900						
SE_1_50	14.137	18.376	20.545	31.869	43.193	45.361
49.600						
SE_1_100	15.310	19.971	22.356	34.808	47.260	49.644
54.306						
SE_1_150	8.871	13.595	16.011	28.631	41.250	43.667
48.391						
SE_1_200	9.037	14.221	16.873	30.723	44.572	47.224
52.408						
SE_1_300	25.674	34.937	39.676	64.422	89.168	93.907
103.170						
SE_2_25	45.437	49.868	52.135	63.973	75.811	78.078
82.509						
SE_2_50	53.729	58.185	60.464	72.368	84.272	86.551
91.007						
SE_2_100	59.072	63.984	66.496	79.616	92.736	95.249
100.160						
SE_2_150	55.576	60.541	63.080	76.342	89.605	92.144
97.109						
SE_2_200	58.934	64.402	67.199	81.806	96.414	99.211
104.679						
SE_2_300	82.554	92.447	97.507	123.933	150.359	155.419
165.312						
SE_3_25	93.418	99.264	102.254	117.869	133.485	136.475
142.321						
SE_3_50	104.621	110.538	113.564	129.369	145.174	148.201
154.117						
SE_3_100	112.478	119.031	122.383	139.889	157.395	160.747
167.300						
SE_3_150	109.244	115.952	119.384	137.305	155.227	158.658
165.367						
SE_3_200	114.763	122.103	125.858	145.466	165.074	168.829
176.169						
SE_3_300	146.994	159.316	165.620	198.536	231.453	237.757
250.079						
SW_1_25	-73.043	-55.247	-46.143	1.398	48.939	58.043
75.839						
SW_1_50	-79.012	-61.269	-52.193	-4.795	42.602	51.679

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69.422						
SW_1_100	-89.167	-71.227	-62.051	-14.128	33.795	42.972
60.912						
SW_1_150	-91.638	-73.758	-64.612	-16.850	30.913	40.059
57.939						
SW_1_200	-93.862	-75.731	-66.456	-18.022	30.412	39.687
57.818						
SW_1_300	-101.671	-82.425	-72.580	-21.167	30.245	40.090
59.336						
SW_2_25	-50.699	-32.664	-23.439	24.738	72.915	82.140
100.175						
SW_2_50	-56.101	-38.123	-28.928	19.095	67.118	76.314
94.291						
SW_2_100	-65.032	-46.790	-37.458	11.273	60.004	69.336
87.578						
SW_2_150	-65.508	-47.329	-38.031	10.530	59.092	68.390
86.569						
SW_2_200	-65.925	-47.451	-38.000	11.352	60.704	70.154
88.629						
SW_2_300	-70.522	-50.794	-40.703	11.996	64.696	74.787
94.515						
SW_3_25	-18.066	2.506	13.029	67.985	122.940	133.463
154.035						
SW_3_50	-25.835	-4.827	5.920	62.039	118.158	128.904
149.912						
SW_3_100	-38.163	-15.928	-4.553	54.846	114.245	125.619
147.855						
SW_3_150	-39.168	-16.366	-4.702	56.209	117.121	128.785
151.587						
SW_3_200	-40.166	-16.378	-4.210	59.335	122.880	135.049
158.837						
SW_3_300	-46.871	-20.292	-6.696	64.304	135.303	148.899
175.478						
SA_1_25	22.834	26.284	28.049	37.267	46.484	48.249
51.700						
SA_1_50	14.205	18.058	20.029	30.322	40.614	42.585
46.438						
SA_1_100	-2.590	2.392	4.940	18.248	31.556	34.104
39.086						
SA_1_150	-6.169	-1.581	0.767	13.024	25.282	27.629
32.217						
SA_1_200	-10.121	-4.899	-2.227	11.724	25.675	28.347
33.569						
SA_1_300	-26.374	-16.634	-11.651	14.368	40.387	45.370
55.110						
SA_2_25	28.082	32.128	34.197	45.005	55.813	57.883
61.929						
SA_2_50	17.653	22.119	24.403	36.333	48.263	50.547
55.013						
SA_2_100	-1.940	3.775	6.699	21.967	37.235	40.159
45.874						
SA_2_150	-5.827	-0.603	2.070	16.026	29.982	32.654
37.878						
SA_2_200	-10.098	-4.172	-1.140	14.691	30.523	33.554
39.481						
SA_2_300	-27.594	-16.700	-11.128	17.973	47.074	52.646
63.540						
SA_3_25	65.700	72.431	75.874	93.856	111.837	115.280
122.012						
SA_3_50	53.938	61.238	64.972	84.471	103.971	107.705
115.004						
SA_3_100	33.448	42.185	46.654	69.994	93.333	97.803
106.540						

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SA_3_150	30.415	38.859	43.178	65.734	88.290	92.610
101.053						
SA_3_200	28.297	37.524	42.244	66.893	91.543	96.263
105.490						
SA_3_300	16.097	30.427	37.757	76.039	114.320	121.651
135.981						
EW_1_25	-101.026	-82.833	-73.526	-24.927	23.672	32.978
51.171						
EW_1_50	-112.580	-94.431	-85.147	-36.664	11.819	21.103
39.252						
EW_1_100	-126.032	-107.600	-98.172	-48.935	0.301	9.730
28.161						
EW_1_150	-122.377	-103.993	-94.589	-45.480	3.629	13.032
31.416						
EW_1_200	-127.100	-108.367	-98.785	-48.744	1.296	10.878
29.611						
EW_1_300	-172.991	-152.096	-141.407	-85.589	-29.771	-19.083
1.812						
EW_2_25	-116.465	-98.002	-88.557	-39.235	10.087	19.532
37.995						
EW_2_50	-130.298	-111.884	-102.464	-53.273	-4.082	5.338
23.753						
EW_2_100	-146.864	-128.092	-118.489	-68.343	-18.197	-8.594
10.178						
EW_2_150	-144.104	-125.387	-115.812	-65.812	-15.811	-6.237
12.481						
EW_2_200	-150.433	-131.313	-121.532	-70.455	-19.377	-9.597
9.524						
EW_2_300	-201.914	-180.403	-169.400	-111.937	-54.474	-43.470
-21.959						
EW_3_25	-138.544	-117.348	-106.506	-49.885	6.736	17.579
38.775						
EW_3_50	-157.829	-136.194	-125.126	-67.331	-9.535	1.533
23.168						
EW_3_100	-181.136	-158.163	-146.411	-85.043	-23.675	-11.924
11.049						
EW_3_150	-179.594	-156.046	-144.001	-81.096	-18.192	-6.146
17.402						
EW_3_200	-189.232	-164.584	-151.975	-86.131	-20.286	-7.678
16.971						
EW_3_300	-253.846	-225.250	-210.622	-134.233	-57.844	-43.216
-14.620						
EA_1_25	-10.460	-5.344	-2.727	10.941	24.610	27.227
32.343						
EA_1_50	-24.267	-18.835	-16.057	-1.547	12.962	15.741
21.172						
EA_1_100	-43.949	-37.401	-34.051	-16.559	0.932	4.282
10.830						
EA_1_150	-41.901	-35.615	-32.399	-15.607	1.186	4.401
10.688						
EA_1_200	-48.462	-41.418	-37.815	-18.999	-0.182	3.421
10.465						
EA_1_300	-103.165	-90.468	-83.973	-50.054	-16.135	-9.640
3.057						
EA_2_25	-42.638	-36.979	-34.084	-18.968	-3.851	-0.956
4.702						
EA_2_50	-61.112	-55.116	-52.050	-36.035	-20.020	-16.954
-10.959						
EA_2_100	-87.945	-80.702	-76.997	-57.649	-38.301	-34.596
-27.353						
EA_2_150	-89.107	-82.224	-78.703	-60.317	-41.930	-38.409
-31.526						
EA_2_200	-99.406	-91.686	-87.737	-67.115	-46.493	-42.544



-34.824						
EA_2_300	-163.981	-150.110	-143.015	-105.960	-68.905	-61.810
-47.938						
EA_3_25	-59.322	-50.881	-46.563	-24.014	-1.465	2.853
11.294						
EA_3_50	-82.320	-73.374	-68.797	-44.898	-20.999	-16.423
-7.476						
EA_3_100	-113.722	-103.244	-97.885	-69.895	-41.906	-36.546
-26.069						
EA_3_150	-114.631	-104.336	-99.070	-71.571	-44.071	-38.805
-28.511						
EA_3_200	-125.691	-114.426	-108.664	-78.572	-48.481	-42.719
-31.454						
EA_3_300	-196.942	-179.145	-170.041	-122.498	-74.954	-65.851
-48.053						
WA_1_25	-39.572	-21.536	-12.310	35.869	84.047	93.273
111.309						
WA_1_50	-40.446	-22.381	-13.140	35.117	83.374	92.615
110.679						
WA_1_100	-45.086	-26.567	-17.094	32.376	81.846	91.319
109.837						
WA_1_150	-46.906	-28.550	-19.161	29.874	78.908	88.298
106.654						
WA_1_200	-48.686	-29.935	-20.343	29.746	79.835	89.427
108.177						
WA_1_300	-52.788	-31.673	-20.871	35.535	91.942	102.743
123.858						
WA_2_25	-56.595	-38.219	-28.820	20.267	69.354	78.754
97.130						
WA_2_50	-59.802	-41.384	-31.963	17.238	66.438	75.859
94.277						
WA_2_100	-68.786	-49.785	-40.065	10.694	61.453	71.173
90.174						
WA_2_150	-73.119	-54.325	-44.711	5.495	55.701	65.315
84.110						
WA_2_200	-77.241	-57.976	-48.122	3.340	54.801	64.655
83.920						
WA_2_300	-86.020	-64.026	-52.775	5.977	64.729	75.979
97.973						
WA_3_25	-63.887	-42.429	-31.452	25.871	83.194	94.171
115.629						
WA_3_50	-69.823	-47.768	-36.485	22.432	81.350	92.632
114.688						
WA_3_100	-83.952	-60.260	-48.141	15.148	78.437	90.556
114.248						
WA_3_150	-91.305	-67.199	-54.869	9.525	73.919	86.250
110.355						
WA_3_200	-98.189	-72.908	-59.976	7.558	75.092	88.024
113.305						
WA_3_300	-111.739	-82.219	-67.120	11.735	90.590	105.690
135.209						
U1	13.414	14.173	14.561	16.586	18.612	19.000
19.758						
U2	-42.921	-25.610	-16.755	29.487	75.730	84.585
101.896						
U3	3.803	6.912	8.502	16.805	25.108	26.698
29.806						
U4	18.381	19.463	20.017	22.910	25.802	26.356
27.439						
U5	6.103	7.913	8.838	13.671	18.503	19.428
21.238						

TECHNICAL 1 OUTPUT

PARAMETER SPECIFICATION FOR NA WITHIN

NU		CBVLM2	CBVLM3	CBVLM4	CBVLM5	CAZTBL
1		0	0	0	0	0

NU		CEFVBL	SQRTCD4	LS0	LS1	LS2
1		0	0	0	0	0

NU		CSEX	CAGE	BCD4SPX1	BCD4SPX2	BCD4SPX3
1		0	0	0	0	0

LAMBDA		S0	S1	S2	CBVLM2	CBVLM3
CBVLM2		0	0	0	0	0
CBVLM3		0	0	0	0	0
CBVLM4		0	0	0	0	0
CBVLM5		0	0	0	0	0
CAZTBL		0	0	0	0	0
CEFVBL		0	0	0	0	0
SQRTCD4		0	0	0	0	0
LS0		0	0	0	0	0
LS1		0	0	0	0	0
LS2		0	0	0	0	0
CSEX		0	0	0	0	0
CAGE		0	0	0	0	0
BCD4SPX1		0	0	0	0	0
BCD4SPX2		0	0	0	0	0
BCD4SPX3		0	0	0	0	0

LAMBDA		CBVLM4	CBVLM5	CAZTBL	CEFVBL	SQRTCD4
CBVLM2		0	0	0	0	0
CBVLM3		0	0	0	0	0
CBVLM4		0	0	0	0	0
CBVLM5		0	0	0	0	0
CAZTBL		0	0	0	0	0
CEFVBL		0	0	0	0	0
SQRTCD4		0	0	0	0	0
LS0		0	0	0	0	0
LS1		0	0	0	0	0
LS2		0	0	0	0	0
CSEX		0	0	0	0	0
CAGE		0	0	0	0	0
BCD4SPX1		0	0	0	0	0
BCD4SPX2		0	0	0	0	0
BCD4SPX3		0	0	0	0	0

	LAMBDA				
	LS0	LS1	LS2	CSEX	CAGE
	-----	-----	-----	-----	-----
CBVLM2	0	0	0	0	0
CBVLM3	0	0	0	0	0
CBVLM4	0	0	0	0	0
CBVLM5	0	0	0	0	0
CAZTBL	0	0	0	0	0
CEFVBL	0	0	0	0	0
SQRTCD4	0	0	0	0	0
LS0	0	0	0	0	0
LS1	0	0	0	0	0
LS2	0	0	0	0	0
CSEX	0	0	0	0	0
CAGE	0	0	0	0	0
BCD4SPX1	0	0	0	0	0
BCD4SPX2	0	0	0	0	0
BCD4SPX3	0	0	0	0	0

	LAMBDA		
	BCD4SPX1	BCD4SPX2	BCD4SPX3
	-----	-----	-----
CBVLM2	0	0	0
CBVLM3	0	0	0
CBVLM4	0	0	0
CBVLM5	0	0	0
CAZTBL	0	0	0
CEFVBL	0	0	0
SQRTCD4	0	0	0
LS0	0	0	0
LS1	0	0	0
LS2	0	0	0
CSEX	0	0	0
CAGE	0	0	0
BCD4SPX1	0	0	0
BCD4SPX2	0	0	0
BCD4SPX3	0	0	0

	THETA				
	CBVLM2	CBVLM3	CBVLM4	CBVLM5	CAZTBL
	-----	-----	-----	-----	-----
CBVLM2	0				
CBVLM3	0	0			
CBVLM4	0	0	0		
CBVLM5	0	0	0	0	
CAZTBL	0	0	0	0	0
CEFVBL	0	0	0	0	0
SQRTCD4	0	0	0	0	0
LS0	0	0	0	0	0
LS1	0	0	0	0	0
LS2	0	0	0	0	0
CSEX	0	0	0	0	0
CAGE	0	0	0	0	0
BCD4SPX1	0	0	0	0	0
BCD4SPX2	0	0	0	0	0
BCD4SPX3	0	0	0	0	0

	THETA				
	CEFVBL	SQRTCD4	LS0	LS1	LS2

CEFVBL	0				
SQRTCD4	0	0			
LS0	0	0	0		
LS1	0	0	0	0	
LS2	0	0	0	0	0
CSEX	0	0	0	0	0
CAGE	0	0	0	0	0
BCD4SPX1	0	0	0	0	0
BCD4SPX2	0	0	0	0	0
BCD4SPX3	0	0	0	0	0

THETA

	CSEX	CAGE	BCD4SPX1	BCD4SPX2	BCD4SPX3
CSEX	0				
CAGE	0	0			
BCD4SPX1	0	0	0		
BCD4SPX2	0	0	0	0	
BCD4SPX3	0	0	0	0	0

ALPHA

	S0	S1	S2	CBVLM2	CBVLM3
1	0	0	0	0	0

ALPHA

	CBVLM4	CBVLM5	CAZTBL	CEFVBL	SQRTCD4
1	0	0	0	0	0

ALPHA

	LS0	LS1	LS2	CSEX	CAGE
1	0	0	0	0	0

ALPHA

	BCD4SPX1	BCD4SPX2	BCD4SPX3
1	0	0	0

BETA

	S0	S1	S2	CBVLM2	CBVLM3
S0	0	0	0	0	0
S1	0	0	0	0	0
S2	0	0	0	0	0
CBVLM2	0	0	0	0	0
CBVLM3	0	0	0	0	0
CBVLM4	0	0	0	0	0
CBVLM5	0	0	0	0	0
CAZTBL	0	0	0	0	0
CEFVBL	0	0	0	0	0
SQRTCD4	0	0	0	0	0
LS0	0	0	0	0	0
LS1	0	0	0	0	0
LS2	0	0	0	0	0

CSEX	0	0	0	0	0
CAGE	0	0	0	0	0
BCD4SPX1	0	0	0	0	0
BCD4SPX2	0	0	0	0	0
BCD4SPX3	0	0	0	0	0

	BETA				
	CBVLM4	CBVLM5	CAZTBL	CEFVBL	SQRTCD4
	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
S0	0	0	0	0	0
S1	0	0	0	0	0
S2	0	0	0	0	0
CBVLM2	0	0	0	0	0
CBVLM3	0	0	0	0	0
CBVLM4	0	0	0	0	0
CBVLM5	0	0	0	0	0
CAZTBL	0	0	0	0	0
CEFVBL	0	0	0	0	0
SQRTCD4	0	0	0	0	0
LS0	0	0	0	0	0
LS1	0	0	0	0	0
LS2	0	0	0	0	0
CSEX	0	0	0	0	0
CAGE	0	0	0	0	0
BCD4SPX1	0	0	0	0	0
BCD4SPX2	0	0	0	0	0
BCD4SPX3	0	0	0	0	0

	BETA				
	LS0	LS1	LS2	CSEX	CAGE
	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
S0	0	0	0	0	0
S1	0	0	0	0	0
S2	0	0	0	0	0
CBVLM2	0	0	0	0	0
CBVLM3	0	0	0	0	0
CBVLM4	0	0	0	0	0
CBVLM5	0	0	0	0	0
CAZTBL	0	0	0	0	0
CEFVBL	0	0	0	0	0
SQRTCD4	0	0	0	0	0
LS0	0	0	0	0	0
LS1	0	0	0	0	0
LS2	0	0	0	0	0
CSEX	0	0	0	0	0
CAGE	0	0	0	0	0
BCD4SPX1	0	0	0	0	0
BCD4SPX2	0	0	0	0	0
BCD4SPX3	0	0	0	0	0

	BETA		
	BCD4SPX1	BCD4SPX2	BCD4SPX3
	<u>0</u>	<u>0</u>	<u>0</u>
S0	0	0	0
S1	0	0	0
S2	0	0	0
CBVLM2	0	0	0
CBVLM3	0	0	0
CBVLM4	0	0	0
CBVLM5	0	0	0

CAZTBL	0	0	0
CEFVBL	0	0	0
SQRTCD4	0	0	0
LS0	0	0	0
LS1	0	0	0
LS2	0	0	0
CSEX	0	0	0
CAGE	0	0	0
BCD4SPX1	0	0	0
BCD4SPX2	0	0	0
BCD4SPX3	0	0	0

	PSI				
	S0	S1	S2	CBVLM2	CBVLM3
S0	0				
S1	0	0			
S2	0	0	0		
CBVLM2	0	0	0	0	
CBVLM3	0	0	0	0	0
CBVLM4	0	0	0	0	0
CBVLM5	0	0	0	0	0
CAZTBL	0	0	0	0	0
CEFVBL	0	0	0	0	0
SQRTCD4	0	0	0	0	0
LS0	0	0	0	0	0
LS1	0	0	0	0	0
LS2	0	0	0	0	0
CSEX	0	0	0	0	0
CAGE	0	0	0	0	0
BCD4SPX1	0	0	0	0	0
BCD4SPX2	0	0	0	0	0
BCD4SPX3	0	0	0	0	0

	PSI				
	CBVLM4	CBVLM5	CAZTBL	CEFVBL	SQRTCD4
CBVLM4	0				
CBVLM5	0	0			
CAZTBL	0	0	0		
CEFVBL	0	0	0	0	
SQRTCD4	0	0	0	0	1
LS0	0	0	0	0	0
LS1	0	0	0	0	0
LS2	0	0	0	0	0
CSEX	0	0	0	0	0
CAGE	0	0	0	0	0
BCD4SPX1	0	0	0	0	0
BCD4SPX2	0	0	0	0	0
BCD4SPX3	0	0	0	0	0

	PSI				
	LS0	LS1	LS2	CSEX	CAGE
LS0	0				
LS1	0	0			
LS2	0	0	0		
CSEX	0	0	0	0	
CAGE	0	0	0	0	0
BCD4SPX1	0	0	0	0	0

BCD4SPX2	0	0	0	0	0
BCD4SPX3	0	0	0	0	0

PSI

	BCD4SPX1	BCD4SPX2	BCD4SPX3
BCD4SPX1	0		
BCD4SPX2	0	0	
BCD4SPX3	0	0	0

PARAMETER SPECIFICATION FOR NA BETWEEN

NU

	CBVLM2	CBVLM3	CBVLM4	CBVLM5	CAZTBL
1	0	0	0	0	0

NU

	CEFVBL	SQRTCD4	LS0	LS1	LS2
1	0	0	0	0	0

NU

	CSEX	CAGE	BCD4SPX1	BCD4SPX2	BCD4SPX3
1	0	0	0	0	0

LAMBDA

	S0	S1	S2	CBVLM2	CBVLM3
CBVLM2	0	0	0	0	0
CBVLM3	0	0	0	0	0
CBVLM4	0	0	0	0	0
CBVLM5	0	0	0	0	0
CAZTBL	0	0	0	0	0
CEFVBL	0	0	0	0	0
SQRTCD4	0	0	0	0	0
LS0	0	0	0	0	0
LS1	0	0	0	0	0
LS2	0	0	0	0	0
CSEX	0	0	0	0	0
CAGE	0	0	0	0	0
BCD4SPX1	0	0	0	0	0
BCD4SPX2	0	0	0	0	0
BCD4SPX3	0	0	0	0	0

LAMBDA

	CBVLM4	CBVLM5	CAZTBL	CEFVBL	SQRTCD4
CBVLM2	0	0	0	0	0
CBVLM3	0	0	0	0	0
CBVLM4	0	0	0	0	0
CBVLM5	0	0	0	0	0
CAZTBL	0	0	0	0	0
CEFVBL	0	0	0	0	0
SQRTCD4	0	0	0	0	0

LS0	0	0	0	0	0
LS1	0	0	0	0	0
LS2	0	0	0	0	0
CSEX	0	0	0	0	0
CAGE	0	0	0	0	0
BCD4SPX1	0	0	0	0	0
BCD4SPX2	0	0	0	0	0
BCD4SPX3	0	0	0	0	0

LAMBDA					
	LS0	LS1	LS2	CSEX	CAGE
CBVLM2	0	0	0	0	0
CBVLM3	0	0	0	0	0
CBVLM4	0	0	0	0	0
CBVLM5	0	0	0	0	0
CAZTBL	0	0	0	0	0
CEFVBL	0	0	0	0	0
SQRTCD4	0	0	0	0	0
LS0	0	0	0	0	0
LS1	0	0	0	0	0
LS2	0	0	0	0	0
CSEX	0	0	0	0	0
CAGE	0	0	0	0	0
BCD4SPX1	0	0	0	0	0
BCD4SPX2	0	0	0	0	0
BCD4SPX3	0	0	0	0	0

LAMBDA			
	BCD4SPX1	BCD4SPX2	BCD4SPX3
CBVLM2	0	0	0
CBVLM3	0	0	0
CBVLM4	0	0	0
CBVLM5	0	0	0
CAZTBL	0	0	0
CEFVBL	0	0	0
SQRTCD4	0	0	0
LS0	0	0	0
LS1	0	0	0
LS2	0	0	0
CSEX	0	0	0
CAGE	0	0	0
BCD4SPX1	0	0	0
BCD4SPX2	0	0	0
BCD4SPX3	0	0	0

THETA					
	CBVLM2	CBVLM3	CBVLM4	CBVLM5	CAZTBL
CBVLM2	0				
CBVLM3	0	0			
CBVLM4	0	0	0		
CBVLM5	0	0	0	0	
CAZTBL	0	0	0	0	0
CEFVBL	0	0	0	0	0
SQRTCD4	0	0	0	0	0
LS0	0	0	0	0	0
LS1	0	0	0	0	0
LS2	0	0	0	0	0



CSEX	0	0	0	0	0
CAGE	0	0	0	0	0
BCD4SPX1	0	0	0	0	0
BCD4SPX2	0	0	0	0	0
BCD4SPX3	0	0	0	0	0

THETA					
	CEFVBL	SQRTCD4	LS0	LS1	LS2
CEFVBL	<u>0</u>				
SQRTCD4	0	<u>0</u>			
LS0	0	0	<u>0</u>		
LS1	0	0	0	<u>0</u>	
LS2	0	0	0	0	<u>0</u>
CSEX	0	0	0	0	0
CAGE	0	0	0	0	0
BCD4SPX1	0	0	0	0	0
BCD4SPX2	0	0	0	0	0
BCD4SPX3	0	0	0	0	0

THETA					
	CSEX	CAGE	BCD4SPX1	BCD4SPX2	BCD4SPX3
CSEX	<u>0</u>				
CAGE	0	<u>0</u>			
BCD4SPX1	0	0	<u>0</u>		
BCD4SPX2	0	0	0	<u>0</u>	
BCD4SPX3	0	0	0	0	<u>0</u>

ALPHA					
	S0	S1	S2	CBVLM2	CBVLM3
1	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>

ALPHA					
	CBVLM4	CBVLM5	CAZTBL	CEFVBL	SQRTCD4
1	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>11</u>

ALPHA					
	LS0	LS1	LS2	CSEX	CAGE
1	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>

ALPHA					
	BCD4SPX1	BCD4SPX2	BCD4SPX3		
1	<u>0</u>	<u>0</u>	<u>0</u>		

BETA					
	S0	S1	S2	CBVLM2	CBVLM3
S0	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
S1	0	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
S2	0	0	<u>0</u>	<u>0</u>	<u>0</u>
CBVLM2	0	0	0	<u>0</u>	<u>0</u>

CBVLM3	0	0	0	0	0
CBVLM4	0	0	0	0	0
CBVLM5	0	0	0	0	0
CAZTBL	0	0	0	0	0
CEFVBL	0	0	0	0	0
SQRTCD4	0	0	0	12	13
LS0	0	0	0	0	0
LS1	0	0	0	0	0
LS2	0	0	0	0	0
CSEX	0	0	0	0	0
CAGE	0	0	0	0	0
BCD4SPX1	0	0	0	0	0
BCD4SPX2	0	0	0	0	0
BCD4SPX3	0	0	0	0	0

BETA

	CBVLM4	CBVLM5	CAZTBL	CEFVBL	SQRTCD4
S0	0	0	0	0	0
S1	0	0	0	0	0
S2	0	0	0	0	0
CBVLM2	0	0	0	0	0
CBVLM3	0	0	0	0	0
CBVLM4	0	0	0	0	0
CBVLM5	0	0	0	0	0
CAZTBL	0	0	0	0	0
CEFVBL	0	0	0	0	0
SQRTCD4	14	15	16	17	0
LS0	0	0	0	0	0
LS1	0	0	0	0	0
LS2	0	0	0	0	0
CSEX	0	0	0	0	0
CAGE	0	0	0	0	0
BCD4SPX1	0	0	0	0	0
BCD4SPX2	0	0	0	0	0
BCD4SPX3	0	0	0	0	0

BETA

	LS0	LS1	LS2	CSEX	CAGE
S0	0	0	0	0	0
S1	0	0	0	0	0
S2	0	0	0	0	0
CBVLM2	0	0	0	0	0
CBVLM3	0	0	0	0	0
CBVLM4	0	0	0	0	0
CBVLM5	0	0	0	0	0
CAZTBL	0	0	0	0	0
CEFVBL	0	0	0	0	0
SQRTCD4	0	0	0	18	19
LS0	0	0	0	0	0
LS1	0	0	0	0	0
LS2	0	0	0	0	0
CSEX	0	0	0	0	0
CAGE	0	0	0	0	0
BCD4SPX1	0	0	0	0	0
BCD4SPX2	0	0	0	0	0
BCD4SPX3	0	0	0	0	0

BETA

	BCD4SPX1	BCD4SPX2	BCD4SPX3
S0	0	0	0
S1	0	0	0
S2	0	0	0
CBVLM2	0	0	0
CBVLM3	0	0	0
CBVLM4	0	0	0
CBVLM5	0	0	0
CAZTBL	0	0	0
CEFVBL	0	0	0
SQRTCD4	20	21	22
LS0	0	0	0
LS1	0	0	0
LS2	0	0	0
CSEX	0	0	0
CAGE	0	0	0
BCD4SPX1	0	0	0
BCD4SPX2	0	0	0
BCD4SPX3	0	0	0

	PSI				
	S0	S1	S2	CBVLM2	CBVLM3
S0	23				
S1	24	25			
S2	26	27	28		
CBVLM2	0	0	0	29	
CBVLM3	0	0	0	0	30
CBVLM4	0	0	0	0	0
CBVLM5	0	0	0	0	0
CAZTBL	0	0	0	0	0
CEFVBL	0	0	0	0	0
SQRTCD4	35	36	37	0	0
LS0	0	0	0	0	0
LS1	0	0	0	0	0
LS2	0	0	0	0	0
CSEX	0	0	0	0	0
CAGE	0	0	0	0	0
BCD4SPX1	0	0	0	0	0
BCD4SPX2	0	0	0	0	0
BCD4SPX3	0	0	0	0	0

	PSI				
	CBVLM4	CBVLM5	CAZTBL	CEFVBL	SQRTCD4
CBVLM4	31				
CBVLM5	0	32			
CAZTBL	0	0	33		
CEFVBL	0	0	0	34	
SQRTCD4	0	0	0	0	38
LS0	0	0	0	0	0
LS1	0	0	0	0	0
LS2	0	0	0	0	0
CSEX	0	0	0	0	0
CAGE	0	0	0	0	0
BCD4SPX1	0	0	0	0	0
BCD4SPX2	0	0	0	0	0
BCD4SPX3	0	0	0	0	0

PSI					
	LS0	LS1	LS2	CSEX	CAGE
LS0	0				
LS1	0	0			
LS2	0	0	0		
CSEX	0	0	0	0	
CAGE	0	0	0	0	0
BCD4SPX1	0	0	0	0	0
BCD4SPX2	0	0	0	0	0
BCD4SPX3	0	0	0	0	0

PSI			
	BCD4SPX1	BCD4SPX2	BCD4SPX3
BCD4SPX1	0		
BCD4SPX2	0	0	
BCD4SPX3	0	0	0

PARAMETER SPECIFICATION FOR WA WITHIN

NU					
	CBVLM2	CBVLM3	CBVLM4	CBVLM5	CAZTBL
1	0	0	0	0	0

NU					
	CEFVBL	SQRTCD4	LS0	LS1	LS2
1	0	0	0	0	0

NU					
	CSEX	CAGE	BCD4SPX1	BCD4SPX2	BCD4SPX3
1	0	0	0	0	0

LAMBDA					
	S0	S1	S2	CBVLM2	CBVLM3
CBVLM2	0	0	0	0	0
CBVLM3	0	0	0	0	0
CBVLM4	0	0	0	0	0
CBVLM5	0	0	0	0	0
CAZTBL	0	0	0	0	0
CEFVBL	0	0	0	0	0
SQRTCD4	0	0	0	0	0
LS0	0	0	0	0	0
LS1	0	0	0	0	0
LS2	0	0	0	0	0
CSEX	0	0	0	0	0
CAGE	0	0	0	0	0
BCD4SPX1	0	0	0	0	0
BCD4SPX2	0	0	0	0	0
BCD4SPX3	0	0	0	0	0

LAMBDA

	CBVLM4	CBVLM5	CAZTBL	CEFVBL	SQRTCD4
CBVLM2	0	0	0	0	0
CBVLM3	0	0	0	0	0
CBVLM4	0	0	0	0	0
CBVLM5	0	0	0	0	0
CAZTBL	0	0	0	0	0
CEFVBL	0	0	0	0	0
SQRTCD4	0	0	0	0	0
LS0	0	0	0	0	0
LS1	0	0	0	0	0
LS2	0	0	0	0	0
CSEX	0	0	0	0	0
CAGE	0	0	0	0	0
BCD4SPX1	0	0	0	0	0
BCD4SPX2	0	0	0	0	0
BCD4SPX3	0	0	0	0	0

	LAMBDA LS0	LS1	LS2	CSEX	CAGE
CBVLM2	0	0	0	0	0
CBVLM3	0	0	0	0	0
CBVLM4	0	0	0	0	0
CBVLM5	0	0	0	0	0
CAZTBL	0	0	0	0	0
CEFVBL	0	0	0	0	0
SQRTCD4	0	0	0	0	0
LS0	0	0	0	0	0
LS1	0	0	0	0	0
LS2	0	0	0	0	0
CSEX	0	0	0	0	0
CAGE	0	0	0	0	0
BCD4SPX1	0	0	0	0	0
BCD4SPX2	0	0	0	0	0
BCD4SPX3	0	0	0	0	0

	LAMBDA BCD4SPX1	BCD4SPX2	BCD4SPX3
CBVLM2	0	0	0
CBVLM3	0	0	0
CBVLM4	0	0	0
CBVLM5	0	0	0
CAZTBL	0	0	0
CEFVBL	0	0	0
SQRTCD4	0	0	0
LS0	0	0	0
LS1	0	0	0
LS2	0	0	0
CSEX	0	0	0
CAGE	0	0	0
BCD4SPX1	0	0	0
BCD4SPX2	0	0	0
BCD4SPX3	0	0	0

	THETA CBVLM2	CBVLM3	CBVLM4	CBVLM5	CAZTBL
CBVLM2	0				

CBVLM3	0	0			
CBVLM4	0	0	0		
CBVLM5	0	0	0	0	
CAZTBL	0	0	0	0	0
CEFVBL	0	0	0	0	0
SQRTCD4	0	0	0	0	0
LS0	0	0	0	0	0
LS1	0	0	0	0	0
LS2	0	0	0	0	0
CSEX	0	0	0	0	0
CAGE	0	0	0	0	0
BCD4SPX1	0	0	0	0	0
BCD4SPX2	0	0	0	0	0
BCD4SPX3	0	0	0	0	0

THETA

	CEFVBL	SQRTCD4	LS0	LS1	LS2
CEFVBL	0				
SQRTCD4	0	0			
LS0	0	0	0		
LS1	0	0	0	0	
LS2	0	0	0	0	0
CSEX	0	0	0	0	0
CAGE	0	0	0	0	0
BCD4SPX1	0	0	0	0	0
BCD4SPX2	0	0	0	0	0
BCD4SPX3	0	0	0	0	0

THETA

	CSEX	CAGE	BCD4SPX1	BCD4SPX2	BCD4SPX3
CSEX	0				
CAGE	0	0			
BCD4SPX1	0	0	0		
BCD4SPX2	0	0	0	0	
BCD4SPX3	0	0	0	0	0

ALPHA

	S0	S1	S2	CBVLM2	CBVLM3
1	0	0	0	0	0

ALPHA

	CBVLM4	CBVLM5	CAZTBL	CEFVBL	SQRTCD4
1	0	0	0	0	0

ALPHA

	LS0	LS1	LS2	CSEX	CAGE
1	0	0	0	0	0

ALPHA

	BCD4SPX1	BCD4SPX2	BCD4SPX3
1	0	0	0

	BETA				
	S0	S1	S2	CBVLM2	CBVLM3
S0	0	0	0	0	0
S1	0	0	0	0	0
S2	0	0	0	0	0
CBVLM2	0	0	0	0	0
CBVLM3	0	0	0	0	0
CBVLM4	0	0	0	0	0
CBVLM5	0	0	0	0	0
CAZTBL	0	0	0	0	0
CEFVBL	0	0	0	0	0
SQRTCD4	0	0	0	0	0
LS0	0	0	0	0	0
LS1	0	0	0	0	0
LS2	0	0	0	0	0
CSEX	0	0	0	0	0
CAGE	0	0	0	0	0
BCD4SPX1	0	0	0	0	0
BCD4SPX2	0	0	0	0	0
BCD4SPX3	0	0	0	0	0

	BETA				
	CBVLM4	CBVLM5	CAZTBL	CEFVBL	SQRTCD4
S0	0	0	0	0	0
S1	0	0	0	0	0
S2	0	0	0	0	0
CBVLM2	0	0	0	0	0
CBVLM3	0	0	0	0	0
CBVLM4	0	0	0	0	0
CBVLM5	0	0	0	0	0
CAZTBL	0	0	0	0	0
CEFVBL	0	0	0	0	0
SQRTCD4	0	0	0	0	0
LS0	0	0	0	0	0
LS1	0	0	0	0	0
LS2	0	0	0	0	0
CSEX	0	0	0	0	0
CAGE	0	0	0	0	0
BCD4SPX1	0	0	0	0	0
BCD4SPX2	0	0	0	0	0
BCD4SPX3	0	0	0	0	0

	BETA				
	LS0	LS1	LS2	CSEX	CAGE
S0	0	0	0	0	0
S1	0	0	0	0	0
S2	0	0	0	0	0
CBVLM2	0	0	0	0	0
CBVLM3	0	0	0	0	0
CBVLM4	0	0	0	0	0
CBVLM5	0	0	0	0	0
CAZTBL	0	0	0	0	0
CEFVBL	0	0	0	0	0
SQRTCD4	0	0	0	0	0
LS0	0	0	0	0	0
LS1	0	0	0	0	0

LS2	0	0	0	0	0
CSEX	0	0	0	0	0
CAGE	0	0	0	0	0
BCD4SPX1	0	0	0	0	0
BCD4SPX2	0	0	0	0	0
BCD4SPX3	0	0	0	0	0

BETA

	BCD4SPX1	BCD4SPX2	BCD4SPX3
S0	0	0	0
S1	0	0	0
S2	0	0	0
CBVLM2	0	0	0
CBVLM3	0	0	0
CBVLM4	0	0	0
CBVLM5	0	0	0
CAZTBL	0	0	0
CEFVBL	0	0	0
SQRTCD4	0	0	0
LS0	0	0	0
LS1	0	0	0
LS2	0	0	0
CSEX	0	0	0
CAGE	0	0	0
BCD4SPX1	0	0	0
BCD4SPX2	0	0	0
BCD4SPX3	0	0	0

PSI

	S0	S1	S2	CBVLM2	CBVLM3
S0	0				
S1	0	0			
S2	0	0	0		
CBVLM2	0	0	0	0	
CBVLM3	0	0	0	0	0
CBVLM4	0	0	0	0	0
CBVLM5	0	0	0	0	0
CAZTBL	0	0	0	0	0
CEFVBL	0	0	0	0	0
SQRTCD4	0	0	0	0	0
LS0	0	0	0	0	0
LS1	0	0	0	0	0
LS2	0	0	0	0	0
CSEX	0	0	0	0	0
CAGE	0	0	0	0	0
BCD4SPX1	0	0	0	0	0
BCD4SPX2	0	0	0	0	0
BCD4SPX3	0	0	0	0	0

PSI

	CBVLM4	CBVLM5	CAZTBL	CEFVBL	SQRTCD4
CBVLM4	0				
CBVLM5	0	0			
CAZTBL	0	0	0		
CEFVBL	0	0	0	0	
SQRTCD4	0	0	0	0	39
LS0	0	0	0	0	0



LS1	0	0	0	0	0
LS2	0	0	0	0	0
CSEX	0	0	0	0	0
CAGE	0	0	0	0	0
BCD4SPX1	0	0	0	0	0
BCD4SPX2	0	0	0	0	0
BCD4SPX3	0	0	0	0	0

PSI					
	LS0	LS1	LS2	CSEX	CAGE
LS0	0				
LS1	0	0			
LS2	0	0	0		
CSEX	0	0	0	0	
CAGE	0	0	0	0	0
BCD4SPX1	0	0	0	0	0
BCD4SPX2	0	0	0	0	0
BCD4SPX3	0	0	0	0	0

PSI			
	BCD4SPX1	BCD4SPX2	BCD4SPX3
BCD4SPX1	0		
BCD4SPX2	0	0	
BCD4SPX3	0	0	0

PARAMETER SPECIFICATION FOR WA BETWEEN

NU					
	CBVLM2	CBVLM3	CBVLM4	CBVLM5	CAZTBL
1	0	0	0	0	0

NU					
	CEFVBL	SQRTCD4	LS0	LS1	LS2
1	0	0	0	0	0

NU					
	CSEX	CAGE	BCD4SPX1	BCD4SPX2	BCD4SPX3
1	0	0	0	0	0

LAMBDA					
	S0	S1	S2	CBVLM2	CBVLM3
CBVLM2	0	0	0	0	0
CBVLM3	0	0	0	0	0
CBVLM4	0	0	0	0	0
CBVLM5	0	0	0	0	0
CAZTBL	0	0	0	0	0
CEFVBL	0	0	0	0	0
SQRTCD4	0	0	0	0	0
LS0	0	0	0	0	0
LS1	0	0	0	0	0

LS2	0	0	0	0	0
CSEX	0	0	0	0	0
CAGE	0	0	0	0	0
BCD4SPX1	0	0	0	0	0
BCD4SPX2	0	0	0	0	0
BCD4SPX3	0	0	0	0	0

	LAMBDA				
	CBVLM4	CBVLM5	CAZTBL	CEFVBL	SQRTCD4
CBVLM2	0	0	0	0	0
CBVLM3	0	0	0	0	0
CBVLM4	0	0	0	0	0
CBVLM5	0	0	0	0	0
CAZTBL	0	0	0	0	0
CEFVBL	0	0	0	0	0
SQRTCD4	0	0	0	0	0
LS0	0	0	0	0	0
LS1	0	0	0	0	0
LS2	0	0	0	0	0
CSEX	0	0	0	0	0
CAGE	0	0	0	0	0
BCD4SPX1	0	0	0	0	0
BCD4SPX2	0	0	0	0	0
BCD4SPX3	0	0	0	0	0

	LAMBDA				
	LS0	LS1	LS2	CSEX	CAGE
CBVLM2	0	0	0	0	0
CBVLM3	0	0	0	0	0
CBVLM4	0	0	0	0	0
CBVLM5	0	0	0	0	0
CAZTBL	0	0	0	0	0
CEFVBL	0	0	0	0	0
SQRTCD4	0	0	0	0	0
LS0	0	0	0	0	0
LS1	0	0	0	0	0
LS2	0	0	0	0	0
CSEX	0	0	0	0	0
CAGE	0	0	0	0	0
BCD4SPX1	0	0	0	0	0
BCD4SPX2	0	0	0	0	0
BCD4SPX3	0	0	0	0	0

	LAMBDA		
	BCD4SPX1	BCD4SPX2	BCD4SPX3
CBVLM2	0	0	0
CBVLM3	0	0	0
CBVLM4	0	0	0
CBVLM5	0	0	0
CAZTBL	0	0	0
CEFVBL	0	0	0
SQRTCD4	0	0	0
LS0	0	0	0
LS1	0	0	0
LS2	0	0	0
CSEX	0	0	0
CAGE	0	0	0

BCD4SPX1	0	0	0
BCD4SPX2	0	0	0
BCD4SPX3	0	0	0

THETA

	<u>CBVLM2</u>	<u>CBVLM3</u>	<u>CBVLM4</u>	<u>CBVLM5</u>	<u>CAZTBL</u>
CBVLM2	0				
CBVLM3	0	0			
CBVLM4	0	0	0		
CBVLM5	0	0	0	0	
CAZTBL	0	0	0	0	0
CEFVBL	0	0	0	0	0
SQRTCD4	0	0	0	0	0
LS0	0	0	0	0	0
LS1	0	0	0	0	0
LS2	0	0	0	0	0
CSEX	0	0	0	0	0
CAGE	0	0	0	0	0
BCD4SPX1	0	0	0	0	0
BCD4SPX2	0	0	0	0	0
BCD4SPX3	0	0	0	0	0

THETA

	<u>CEFVBL</u>	<u>SQRTCD4</u>	<u>LS0</u>	<u>LS1</u>	<u>LS2</u>
CEFVBL	0				
SQRTCD4	0	0			
LS0	0	0	0		
LS1	0	0	0	0	
LS2	0	0	0	0	0
CSEX	0	0	0	0	0
CAGE	0	0	0	0	0
BCD4SPX1	0	0	0	0	0
BCD4SPX2	0	0	0	0	0
BCD4SPX3	0	0	0	0	0

THETA

	<u>CSEX</u>	<u>CAGE</u>	<u>BCD4SPX1</u>	<u>BCD4SPX2</u>	<u>BCD4SPX3</u>
CSEX	0				
CAGE	0	0			
BCD4SPX1	0	0	0		
BCD4SPX2	0	0	0	0	
BCD4SPX3	0	0	0	0	0

ALPHA

	<u>S0</u>	<u>S1</u>	<u>S2</u>	<u>CBVLM2</u>	<u>CBVLM3</u>
1	40	41	42	5	6

ALPHA

	<u>CBVLM4</u>	<u>CBVLM5</u>	<u>CAZTBL</u>	<u>CEFVBL</u>	<u>SQRTCD4</u>
1	7	8	9	10	43

ALPHA

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	LS0	LS1	LS2	CSEX	CAGE
1	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>

ALPHA					
	BCD4SPX1	BCD4SPX2	BCD4SPX3		
1	<u>0</u>	<u>0</u>	<u>0</u>		

BETA					
	S0	S1	S2	CBVLM2	CBVLM3
S0	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
S1	0	0	0	0	0
S2	0	0	0	0	0
CBVLM2	0	0	0	0	0
CBVLM3	0	0	0	0	0
CBVLM4	0	0	0	0	0
CBVLM5	0	0	0	0	0
CAZTBL	0	0	0	0	0
CEFVBL	0	0	0	0	0
SQRTCD4	0	0	0	12	13
LS0	0	0	0	0	0
LS1	0	0	0	0	0
LS2	0	0	0	0	0
CSEX	0	0	0	0	0
CAGE	0	0	0	0	0
BCD4SPX1	0	0	0	0	0
BCD4SPX2	0	0	0	0	0
BCD4SPX3	0	0	0	0	0

BETA					
	CBVLM4	CBVLM5	CAZTBL	CEFVBL	SQRTCD4
S0	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
S1	0	0	0	0	0
S2	0	0	0	0	0
CBVLM2	0	0	0	0	0
CBVLM3	0	0	0	0	0
CBVLM4	0	0	0	0	0
CBVLM5	0	0	0	0	0
CAZTBL	0	0	0	0	0
CEFVBL	0	0	0	0	0
SQRTCD4	14	15	16	17	0
LS0	0	0	0	0	0
LS1	0	0	0	0	0
LS2	0	0	0	0	0
CSEX	0	0	0	0	0
CAGE	0	0	0	0	0
BCD4SPX1	0	0	0	0	0
BCD4SPX2	0	0	0	0	0
BCD4SPX3	0	0	0	0	0

BETA					
	LS0	LS1	LS2	CSEX	CAGE
S0	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
S1	0	0	0	0	0
S2	0	0	0	0	0

CBVLM2	0	0	0	0	0
CBVLM3	0	0	0	0	0
CBVLM4	0	0	0	0	0
CBVLM5	0	0	0	0	0
CAZTBL	0	0	0	0	0
CEFVBL	0	0	0	0	0
SQRTCD4	0	0	0	18	19
LS0	0	0	0	0	0
LS1	0	0	0	0	0
LS2	0	0	0	0	0
CSEX	0	0	0	0	0
CAGE	0	0	0	0	0
BCD4SPX1	0	0	0	0	0
BCD4SPX2	0	0	0	0	0
BCD4SPX3	0	0	0	0	0

BETA

	BCD4SPX1	BCD4SPX2	BCD4SPX3
S0	0	0	0
S1	0	0	0
S2	0	0	0
CBVLM2	0	0	0
CBVLM3	0	0	0
CBVLM4	0	0	0
CBVLM5	0	0	0
CAZTBL	0	0	0
CEFVBL	0	0	0
SQRTCD4	44	45	46
LS0	0	0	0
LS1	0	0	0
LS2	0	0	0
CSEX	0	0	0
CAGE	0	0	0
BCD4SPX1	0	0	0
BCD4SPX2	0	0	0
BCD4SPX3	0	0	0

PSI

	S0	S1	S2	CBVLM2	CBVLM3
S0	47				
S1	48	49			
S2	50	51	52		
CBVLM2	0	0	0	29	
CBVLM3	0	0	0	0	30
CBVLM4	0	0	0	0	0
CBVLM5	0	0	0	0	0
CAZTBL	0	0	0	0	0
CEFVBL	0	0	0	0	0
SQRTCD4	53	54	55	0	0
LS0	0	0	0	0	0
LS1	0	0	0	0	0
LS2	0	0	0	0	0
CSEX	0	0	0	0	0
CAGE	0	0	0	0	0
BCD4SPX1	0	0	0	0	0
BCD4SPX2	0	0	0	0	0
BCD4SPX3	0	0	0	0	0

	PSI				
	CBVLM4	CBVLM5	CAZTBL	CEFVBL	SQRTCD4
CBVLM4	31				
CBVLM5	0	32			
CAZTBL	0	0	33		
CEFVBL	0	0	0	34	
SQRTCD4	0	0	0	0	56
LS0	0	0	0	0	0
LS1	0	0	0	0	0
LS2	0	0	0	0	0
CSEX	0	0	0	0	0
CAGE	0	0	0	0	0
BCD4SPX1	0	0	0	0	0
BCD4SPX2	0	0	0	0	0
BCD4SPX3	0	0	0	0	0

	PSI				
	LS0	LS1	LS2	CSEX	CAGE
LS0	0				
LS1	0	0			
LS2	0	0	0		
CSEX	0	0	0	0	
CAGE	0	0	0	0	0
BCD4SPX1	0	0	0	0	0
BCD4SPX2	0	0	0	0	0
BCD4SPX3	0	0	0	0	0

	PSI		
	BCD4SPX1	BCD4SPX2	BCD4SPX3
BCD4SPX1	0		
BCD4SPX2	0	0	
BCD4SPX3	0	0	0

PARAMETER SPECIFICATION FOR EA WITHIN

	NU				
	CBVLM2	CBVLM3	CBVLM4	CBVLM5	CAZTBL
1	0	0	0	0	0

  

	NU				
	CEFVBL	SQRTCD4	LS0	LS1	LS2
1	0	0	0	0	0

  

	NU				
	CSEX	CAGE	BCD4SPX1	BCD4SPX2	BCD4SPX3
1	0	0	0	0	0

  

	LAMBDA				
	S0	S1	S2	CBVLM2	CBVLM3

CBVLM2	0	0	0	0	0
CBVLM3	0	0	0	0	0
CBVLM4	0	0	0	0	0
CBVLM5	0	0	0	0	0
CAZTBL	0	0	0	0	0
CEFVBL	0	0	0	0	0
SQRTCD4	0	0	0	0	0
LS0	0	0	0	0	0
LS1	0	0	0	0	0
LS2	0	0	0	0	0
CSEX	0	0	0	0	0
CAGE	0	0	0	0	0
BCD4SPX1	0	0	0	0	0
BCD4SPX2	0	0	0	0	0
BCD4SPX3	0	0	0	0	0

	LAMBDA				
	CBVLM4	CBVLM5	CAZTBL	CEFVBL	SQRTCD4
CBVLM2	0	0	0	0	0
CBVLM3	0	0	0	0	0
CBVLM4	0	0	0	0	0
CBVLM5	0	0	0	0	0
CAZTBL	0	0	0	0	0
CEFVBL	0	0	0	0	0
SQRTCD4	0	0	0	0	0
LS0	0	0	0	0	0
LS1	0	0	0	0	0
LS2	0	0	0	0	0
CSEX	0	0	0	0	0
CAGE	0	0	0	0	0
BCD4SPX1	0	0	0	0	0
BCD4SPX2	0	0	0	0	0
BCD4SPX3	0	0	0	0	0

	LAMBDA				
	LS0	LS1	LS2	CSEX	CAGE
CBVLM2	0	0	0	0	0
CBVLM3	0	0	0	0	0
CBVLM4	0	0	0	0	0
CBVLM5	0	0	0	0	0
CAZTBL	0	0	0	0	0
CEFVBL	0	0	0	0	0
SQRTCD4	0	0	0	0	0
LS0	0	0	0	0	0
LS1	0	0	0	0	0
LS2	0	0	0	0	0
CSEX	0	0	0	0	0
CAGE	0	0	0	0	0
BCD4SPX1	0	0	0	0	0
BCD4SPX2	0	0	0	0	0
BCD4SPX3	0	0	0	0	0

	LAMBDA		
	BCD4SPX1	BCD4SPX2	BCD4SPX3
CBVLM2	0	0	0
CBVLM3	0	0	0
CBVLM4	0	0	0

CBVLM5	0	0	0
CAZTBL	0	0	0
CEFVBL	0	0	0
SQRTCD4	0	0	0
LS0	0	0	0
LS1	0	0	0
LS2	0	0	0
CSEX	0	0	0
CAGE	0	0	0
BCD4SPX1	0	0	0
BCD4SPX2	0	0	0
BCD4SPX3	0	0	0

	THETA				
	CBVLM2	CBVLM3	CBVLM4	CBVLM5	CAZTBL
CBVLM2	0				
CBVLM3	0	0			
CBVLM4	0	0	0		
CBVLM5	0	0	0	0	
CAZTBL	0	0	0	0	0
CEFVBL	0	0	0	0	0
SQRTCD4	0	0	0	0	0
LS0	0	0	0	0	0
LS1	0	0	0	0	0
LS2	0	0	0	0	0
CSEX	0	0	0	0	0
CAGE	0	0	0	0	0
BCD4SPX1	0	0	0	0	0
BCD4SPX2	0	0	0	0	0
BCD4SPX3	0	0	0	0	0

	THETA				
	CEFVBL	SQRTCD4	LS0	LS1	LS2
CEFVBL	0				
SQRTCD4	0	0			
LS0	0	0	0		
LS1	0	0	0	0	
LS2	0	0	0	0	0
CSEX	0	0	0	0	0
CAGE	0	0	0	0	0
BCD4SPX1	0	0	0	0	0
BCD4SPX2	0	0	0	0	0
BCD4SPX3	0	0	0	0	0

	THETA				
	CSEX	CAGE	BCD4SPX1	BCD4SPX2	BCD4SPX3
CSEX	0				
CAGE	0	0			
BCD4SPX1	0	0	0		
BCD4SPX2	0	0	0	0	
BCD4SPX3	0	0	0	0	0

	ALPHA				
	S0	S1	S2	CBVLM2	CBVLM3
1	0	0	0	0	0



	ALPHA				
	CBVLM4	CBVLM5	CAZTBL	CEFVBL	SQRTCD4
1	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>

	ALPHA				
	LS0	LS1	LS2	CSEX	CAGE
1	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>

	ALPHA		
	BCD4SPX1	BCD4SPX2	BCD4SPX3
1	<u>0</u>	<u>0</u>	<u>0</u>

	BETA				
	S0	S1	S2	CBVLM2	CBVLM3
S0	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
S1	0	0	0	0	0
S2	0	0	0	0	0
CBVLM2	0	0	0	0	0
CBVLM3	0	0	0	0	0
CBVLM4	0	0	0	0	0
CBVLM5	0	0	0	0	0
CAZTBL	0	0	0	0	0
CEFVBL	0	0	0	0	0
SQRTCD4	0	0	0	0	0
LS0	0	0	0	0	0
LS1	0	0	0	0	0
LS2	0	0	0	0	0
CSEX	0	0	0	0	0
CAGE	0	0	0	0	0
BCD4SPX1	0	0	0	0	0
BCD4SPX2	0	0	0	0	0
BCD4SPX3	0	0	0	0	0

	BETA				
	CBVLM4	CBVLM5	CAZTBL	CEFVBL	SQRTCD4
S0	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
S1	0	0	0	0	0
S2	0	0	0	0	0
CBVLM2	0	0	0	0	0
CBVLM3	0	0	0	0	0
CBVLM4	0	0	0	0	0
CBVLM5	0	0	0	0	0
CAZTBL	0	0	0	0	0
CEFVBL	0	0	0	0	0
SQRTCD4	0	0	0	0	0
LS0	0	0	0	0	0
LS1	0	0	0	0	0
LS2	0	0	0	0	0
CSEX	0	0	0	0	0
CAGE	0	0	0	0	0
BCD4SPX1	0	0	0	0	0
BCD4SPX2	0	0	0	0	0

	BETA				
	LS0	LS1	LS2	CSEX	CAGE
BCD4SPX3	0	0	0	0	0
S0	0	0	0	0	0
S1	0	0	0	0	0
S2	0	0	0	0	0
CBVLM2	0	0	0	0	0
CBVLM3	0	0	0	0	0
CBVLM4	0	0	0	0	0
CBVLM5	0	0	0	0	0
CAZTBL	0	0	0	0	0
CEFVBL	0	0	0	0	0
SQRTCD4	0	0	0	0	0
LS0	0	0	0	0	0
LS1	0	0	0	0	0
LS2	0	0	0	0	0
CSEX	0	0	0	0	0
CAGE	0	0	0	0	0
BCD4SPX1	0	0	0	0	0
BCD4SPX2	0	0	0	0	0
BCD4SPX3	0	0	0	0	0

	BETA		
	BCD4SPX1	BCD4SPX2	BCD4SPX3
S0	0	0	0
S1	0	0	0
S2	0	0	0
CBVLM2	0	0	0
CBVLM3	0	0	0
CBVLM4	0	0	0
CBVLM5	0	0	0
CAZTBL	0	0	0
CEFVBL	0	0	0
SQRTCD4	0	0	0
LS0	0	0	0
LS1	0	0	0
LS2	0	0	0
CSEX	0	0	0
CAGE	0	0	0
BCD4SPX1	0	0	0
BCD4SPX2	0	0	0
BCD4SPX3	0	0	0

	PSI				
	S0	S1	S2	CBVLM2	CBVLM3
S0	0				
S1	0	0			
S2	0	0	0		
CBVLM2	0	0	0	0	
CBVLM3	0	0	0	0	0
CBVLM4	0	0	0	0	0
CBVLM5	0	0	0	0	0
CAZTBL	0	0	0	0	0
CEFVBL	0	0	0	0	0
SQRTCD4	0	0	0	0	0
LS0	0	0	0	0	0

LS1	0	0	0	0	0
LS2	0	0	0	0	0
CSEX	0	0	0	0	0
CAGE	0	0	0	0	0
BCD4SPX1	0	0	0	0	0
BCD4SPX2	0	0	0	0	0
BCD4SPX3	0	0	0	0	0

PSI					
	<u>CBVLM4</u>	<u>CBVLM5</u>	<u>CAZTBL</u>	<u>CEFVBL</u>	<u>SQRTCD4</u>
CBVLM4	0				
CBVLM5	0	0			
CAZTBL	0	0	0		
CEFVBL	0	0	0	0	
SQRTCD4	0	0	0	0	57
LS0	0	0	0	0	0
LS1	0	0	0	0	0
LS2	0	0	0	0	0
CSEX	0	0	0	0	0
CAGE	0	0	0	0	0
BCD4SPX1	0	0	0	0	0
BCD4SPX2	0	0	0	0	0
BCD4SPX3	0	0	0	0	0

PSI					
	<u>LS0</u>	<u>LS1</u>	<u>LS2</u>	<u>CSEX</u>	<u>CAGE</u>
LS0	0				
LS1	0	0			
LS2	0	0	0		
CSEX	0	0	0	0	
CAGE	0	0	0	0	0
BCD4SPX1	0	0	0	0	0
BCD4SPX2	0	0	0	0	0
BCD4SPX3	0	0	0	0	0

PSI			
	<u>BCD4SPX1</u>	<u>BCD4SPX2</u>	<u>BCD4SPX3</u>
BCD4SPX1	0		
BCD4SPX2	0	0	
BCD4SPX3	0	0	0

PARAMETER SPECIFICATION FOR EA BETWEEN

NU					
	<u>CBVLM2</u>	<u>CBVLM3</u>	<u>CBVLM4</u>	<u>CBVLM5</u>	<u>CAZTBL</u>
1	0	0	0	0	0

NU					
	<u>CEFVBL</u>	<u>SQRTCD4</u>	<u>LS0</u>	<u>LS1</u>	<u>LS2</u>
1	0	0	0	0	0

	NU				
	CSEX	CAGE	BCD4SPX1	BCD4SPX2	BCD4SPX3
1	0	0	0	0	0

	LAMBDA				
	S0	S1	S2	CBVLM2	CBVLM3
CBVLM2	0	0	0	0	0
CBVLM3	0	0	0	0	0
CBVLM4	0	0	0	0	0
CBVLM5	0	0	0	0	0
CAZTBL	0	0	0	0	0
CEFVBL	0	0	0	0	0
SQRTCD4	0	0	0	0	0
LS0	0	0	0	0	0
LS1	0	0	0	0	0
LS2	0	0	0	0	0
CSEX	0	0	0	0	0
CAGE	0	0	0	0	0
BCD4SPX1	0	0	0	0	0
BCD4SPX2	0	0	0	0	0
BCD4SPX3	0	0	0	0	0

	LAMBDA				
	CBVLM4	CBVLM5	CAZTBL	CEFVBL	SQRTCD4
CBVLM2	0	0	0	0	0
CBVLM3	0	0	0	0	0
CBVLM4	0	0	0	0	0
CBVLM5	0	0	0	0	0
CAZTBL	0	0	0	0	0
CEFVBL	0	0	0	0	0
SQRTCD4	0	0	0	0	0
LS0	0	0	0	0	0
LS1	0	0	0	0	0
LS2	0	0	0	0	0
CSEX	0	0	0	0	0
CAGE	0	0	0	0	0
BCD4SPX1	0	0	0	0	0
BCD4SPX2	0	0	0	0	0
BCD4SPX3	0	0	0	0	0

	LAMBDA				
	LS0	LS1	LS2	CSEX	CAGE
CBVLM2	0	0	0	0	0
CBVLM3	0	0	0	0	0
CBVLM4	0	0	0	0	0
CBVLM5	0	0	0	0	0
CAZTBL	0	0	0	0	0
CEFVBL	0	0	0	0	0
SQRTCD4	0	0	0	0	0
LS0	0	0	0	0	0
LS1	0	0	0	0	0
LS2	0	0	0	0	0
CSEX	0	0	0	0	0
CAGE	0	0	0	0	0
BCD4SPX1	0	0	0	0	0
BCD4SPX2	0	0	0	0	0

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BCD4SPX3	0	0	0	0	0
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LAMBDA

	BCD4SPX1	BCD4SPX2	BCD4SPX3
CBVLM2	0	0	0
CBVLM3	0	0	0
CBVLM4	0	0	0
CBVLM5	0	0	0
CAZTBL	0	0	0
CEFVBL	0	0	0
SQRTCD4	0	0	0
LS0	0	0	0
LS1	0	0	0
LS2	0	0	0
CSEX	0	0	0
CAGE	0	0	0
BCD4SPX1	0	0	0
BCD4SPX2	0	0	0
BCD4SPX3	0	0	0

THETA

	CBVLM2	CBVLM3	CBVLM4	CBVLM5	CAZTBL
CBVLM2	0				
CBVLM3	0	0			
CBVLM4	0	0	0		
CBVLM5	0	0	0	0	
CAZTBL	0	0	0	0	0
CEFVBL	0	0	0	0	0
SQRTCD4	0	0	0	0	0
LS0	0	0	0	0	0
LS1	0	0	0	0	0
LS2	0	0	0	0	0
CSEX	0	0	0	0	0
CAGE	0	0	0	0	0
BCD4SPX1	0	0	0	0	0
BCD4SPX2	0	0	0	0	0
BCD4SPX3	0	0	0	0	0

THETA

	CEFVBL	SQRTCD4	LS0	LS1	LS2
CEFVBL	0				
SQRTCD4	0	0			
LS0	0	0	0		
LS1	0	0	0	0	
LS2	0	0	0	0	0
CSEX	0	0	0	0	0
CAGE	0	0	0	0	0
BCD4SPX1	0	0	0	0	0
BCD4SPX2	0	0	0	0	0
BCD4SPX3	0	0	0	0	0

THETA

	CSEX	CAGE	BCD4SPX1	BCD4SPX2	BCD4SPX3
CSEX	0				
CAGE	0	0			

BCD4SPX1	0	0	0		
BCD4SPX2	0	0	0	0	
BCD4SPX3	0	0	0	0	0

	ALPHA				
	S0	S1	S2	CBVLM2	CBVLM3
1	<u>58</u>	<u>59</u>	<u>60</u>	<u>5</u>	<u>6</u>

	ALPHA				
	CBVLM4	CBVLM5	CAZTBL	CEFVBL	SQRTCD4
1	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>61</u>

	ALPHA				
	LS0	LS1	LS2	CSEX	CAGE
1	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>

	ALPHA		
	BCD4SPX1	BCD4SPX2	BCD4SPX3
1	<u>0</u>	<u>0</u>	<u>0</u>

	BETA				
	S0	S1	S2	CBVLM2	CBVLM3
S0	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
S1	0	0	0	0	0
S2	0	0	0	0	0
CBVLM2	0	0	0	0	0
CBVLM3	0	0	0	0	0
CBVLM4	0	0	0	0	0
CBVLM5	0	0	0	0	0
CAZTBL	0	0	0	0	0
CEFVBL	0	0	0	0	0
SQRTCD4	0	0	0	12	13
LS0	0	0	0	0	0
LS1	0	0	0	0	0
LS2	0	0	0	0	0
CSEX	0	0	0	0	0
CAGE	0	0	0	0	0
BCD4SPX1	0	0	0	0	0
BCD4SPX2	0	0	0	0	0
BCD4SPX3	0	0	0	0	0

	BETA				
	CBVLM4	CBVLM5	CAZTBL	CEFVBL	SQRTCD4
S0	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
S1	0	0	0	0	0
S2	0	0	0	0	0
CBVLM2	0	0	0	0	0
CBVLM3	0	0	0	0	0
CBVLM4	0	0	0	0	0
CBVLM5	0	0	0	0	0
CAZTBL	0	0	0	0	0

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CEFVBL	0	0	0	0	0
SQRTCD4	14	15	16	17	0
LS0	0	0	0	0	0
LS1	0	0	0	0	0
LS2	0	0	0	0	0
CSEX	0	0	0	0	0
CAGE	0	0	0	0	0
BCD4SPX1	0	0	0	0	0
BCD4SPX2	0	0	0	0	0
BCD4SPX3	0	0	0	0	0

	BETA				
	LS0	LS1	LS2	CSEX	CAGE
	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>
S0	0	0	0	0	0
S1	0	0	0	0	0
S2	0	0	0	0	0
CBVLM2	0	0	0	0	0
CBVLM3	0	0	0	0	0
CBVLM4	0	0	0	0	0
CBVLM5	0	0	0	0	0
CAZTBL	0	0	0	0	0
CEFVBL	0	0	0	0	0
SQRTCD4	0	0	0	18	19
LS0	0	0	0	0	0
LS1	0	0	0	0	0
LS2	0	0	0	0	0
CSEX	0	0	0	0	0
CAGE	0	0	0	0	0
BCD4SPX1	0	0	0	0	0
BCD4SPX2	0	0	0	0	0
BCD4SPX3	0	0	0	0	0

	BETA		
	BCD4SPX1	BCD4SPX2	BCD4SPX3
	<hr/>	<hr/>	<hr/>
S0	0	0	0
S1	0	0	0
S2	0	0	0
CBVLM2	0	0	0
CBVLM3	0	0	0
CBVLM4	0	0	0
CBVLM5	0	0	0
CAZTBL	0	0	0
CEFVBL	0	0	0
SQRTCD4	62	63	64
LS0	0	0	0
LS1	0	0	0
LS2	0	0	0
CSEX	0	0	0
CAGE	0	0	0
BCD4SPX1	0	0	0
BCD4SPX2	0	0	0
BCD4SPX3	0	0	0

	PSI				
	S0	S1	S2	CBVLM2	CBVLM3
	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>
S0	65				
S1	66	67			

S2	68	69	70		
CBVLM2	0	0	0	29	
CBVLM3	0	0	0	0	30
CBVLM4	0	0	0	0	0
CBVLM5	0	0	0	0	0
CAZTBL	0	0	0	0	0
CEFVBL	0	0	0	0	0
SQRTCD4	71	72	73	0	0
LS0	0	0	0	0	0
LS1	0	0	0	0	0
LS2	0	0	0	0	0
CSEX	0	0	0	0	0
CAGE	0	0	0	0	0
BCD4SPX1	0	0	0	0	0
BCD4SPX2	0	0	0	0	0
BCD4SPX3	0	0	0	0	0

PSI

	<u>CBVLM4</u>	<u>CBVLM5</u>	<u>CAZTBL</u>	<u>CEFVBL</u>	<u>SQRTCD4</u>
CBVLM4	31				
CBVLM5	0	32			
CAZTBL	0	0	33		
CEFVBL	0	0	0	34	
SQRTCD4	0	0	0	0	74
LS0	0	0	0	0	0
LS1	0	0	0	0	0
LS2	0	0	0	0	0
CSEX	0	0	0	0	0
CAGE	0	0	0	0	0
BCD4SPX1	0	0	0	0	0
BCD4SPX2	0	0	0	0	0
BCD4SPX3	0	0	0	0	0

PSI

	<u>LS0</u>	<u>LS1</u>	<u>LS2</u>	<u>CSEX</u>	<u>CAGE</u>
LS0	0				
LS1	0	0			
LS2	0	0	0		
CSEX	0	0	0	0	
CAGE	0	0	0	0	0
BCD4SPX1	0	0	0	0	0
BCD4SPX2	0	0	0	0	0
BCD4SPX3	0	0	0	0	0

PSI

	<u>BCD4SPX1</u>	<u>BCD4SPX2</u>	<u>BCD4SPX3</u>
BCD4SPX1	0		
BCD4SPX2	0	0	
BCD4SPX3	0	0	0

PARAMETER SPECIFICATION FOR SA WITHIN

NU

	<u>CBVLM2</u>	<u>CBVLM3</u>	<u>CBVLM4</u>	<u>CBVLM5</u>	<u>CAZTBL</u>
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1	0	0	0	0	0
	NU				
	CEFVBL	SQRTCD4	LS0	LS1	LS2
1	0	0	0	0	0
	NU				
	CSEX	CAGE	BCD4SPX1	BCD4SPX2	BCD4SPX3
1	0	0	0	0	0
	LAMBDA				
	S0	S1	S2	CBVLM2	CBVLM3
CBVLM2	0	0	0	0	0
CBVLM3	0	0	0	0	0
CBVLM4	0	0	0	0	0
CBVLM5	0	0	0	0	0
CAZTBL	0	0	0	0	0
CEFVBL	0	0	0	0	0
SQRTCD4	0	0	0	0	0
LS0	0	0	0	0	0
LS1	0	0	0	0	0
LS2	0	0	0	0	0
CSEX	0	0	0	0	0
CAGE	0	0	0	0	0
BCD4SPX1	0	0	0	0	0
BCD4SPX2	0	0	0	0	0
BCD4SPX3	0	0	0	0	0
	LAMBDA				
	CBVLM4	CBVLM5	CAZTBL	CEFVBL	SQRTCD4
CBVLM2	0	0	0	0	0
CBVLM3	0	0	0	0	0
CBVLM4	0	0	0	0	0
CBVLM5	0	0	0	0	0
CAZTBL	0	0	0	0	0
CEFVBL	0	0	0	0	0
SQRTCD4	0	0	0	0	0
LS0	0	0	0	0	0
LS1	0	0	0	0	0
LS2	0	0	0	0	0
CSEX	0	0	0	0	0
CAGE	0	0	0	0	0
BCD4SPX1	0	0	0	0	0
BCD4SPX2	0	0	0	0	0
BCD4SPX3	0	0	0	0	0
	LAMBDA				
	LS0	LS1	LS2	CSEX	CAGE
CBVLM2	0	0	0	0	0
CBVLM3	0	0	0	0	0
CBVLM4	0	0	0	0	0
CBVLM5	0	0	0	0	0
CAZTBL	0	0	0	0	0

CEFVBL	0	0	0	0	0
SQRTCD4	0	0	0	0	0
LS0	0	0	0	0	0
LS1	0	0	0	0	0
LS2	0	0	0	0	0
CSEX	0	0	0	0	0
CAGE	0	0	0	0	0
BCD4SPX1	0	0	0	0	0
BCD4SPX2	0	0	0	0	0
BCD4SPX3	0	0	0	0	0

LAMBDA

	BCD4SPX1	BCD4SPX2	BCD4SPX3
CBVLM2	0	0	0
CBVLM3	0	0	0
CBVLM4	0	0	0
CBVLM5	0	0	0
CAZTBL	0	0	0
CEFVBL	0	0	0
SQRTCD4	0	0	0
LS0	0	0	0
LS1	0	0	0
LS2	0	0	0
CSEX	0	0	0
CAGE	0	0	0
BCD4SPX1	0	0	0
BCD4SPX2	0	0	0
BCD4SPX3	0	0	0

THETA

	CBVLM2	CBVLM3	CBVLM4	CBVLM5	CAZTBL
CBVLM2	0				
CBVLM3	0	0			
CBVLM4	0	0	0		
CBVLM5	0	0	0	0	
CAZTBL	0	0	0	0	0
CEFVBL	0	0	0	0	0
SQRTCD4	0	0	0	0	0
LS0	0	0	0	0	0
LS1	0	0	0	0	0
LS2	0	0	0	0	0
CSEX	0	0	0	0	0
CAGE	0	0	0	0	0
BCD4SPX1	0	0	0	0	0
BCD4SPX2	0	0	0	0	0
BCD4SPX3	0	0	0	0	0

THETA

	CEFVBL	SQRTCD4	LS0	LS1	LS2
CEFVBL	0				
SQRTCD4	0	0			
LS0	0	0	0		
LS1	0	0	0	0	
LS2	0	0	0	0	0
CSEX	0	0	0	0	0
CAGE	0	0	0	0	0
BCD4SPX1	0	0	0	0	0

BCD4SPX2	0	0	0	0	0
BCD4SPX3	0	0	0	0	0
THETA					
	CSEX	CAGE	BCD4SPX1	BCD4SPX2	BCD4SPX3
CSEX	0				
CAGE	0	0			
BCD4SPX1	0	0	0		
BCD4SPX2	0	0	0	0	
BCD4SPX3	0	0	0	0	0

ALPHA					
	S0	S1	S2	CBVLM2	CBVLM3
1	0	0	0	0	0

ALPHA					
	CBVLM4	CBVLM5	CAZTBL	CEFVBL	SQRTCD4
1	0	0	0	0	0

ALPHA					
	LS0	LS1	LS2	CSEX	CAGE
1	0	0	0	0	0

ALPHA					
	BCD4SPX1	BCD4SPX2	BCD4SPX3		
1	0	0	0		

BETA					
	S0	S1	S2	CBVLM2	CBVLM3
S0	0	0	0	0	0
S1	0	0	0	0	0
S2	0	0	0	0	0
CBVLM2	0	0	0	0	0
CBVLM3	0	0	0	0	0
CBVLM4	0	0	0	0	0
CBVLM5	0	0	0	0	0
CAZTBL	0	0	0	0	0
CEFVBL	0	0	0	0	0
SQRTCD4	0	0	0	0	0
LS0	0	0	0	0	0
LS1	0	0	0	0	0
LS2	0	0	0	0	0
CSEX	0	0	0	0	0
CAGE	0	0	0	0	0
BCD4SPX1	0	0	0	0	0
BCD4SPX2	0	0	0	0	0
BCD4SPX3	0	0	0	0	0

BETA					
	CBVLM4	CBVLM5	CAZTBL	CEFVBL	SQRTCD4

S0	0	0	0	0	0
S1	0	0	0	0	0
S2	0	0	0	0	0
CBVLM2	0	0	0	0	0
CBVLM3	0	0	0	0	0
CBVLM4	0	0	0	0	0
CBVLM5	0	0	0	0	0
CAZTBL	0	0	0	0	0
CEFVBL	0	0	0	0	0
SQRTCD4	0	0	0	0	0
LS0	0	0	0	0	0
LS1	0	0	0	0	0
LS2	0	0	0	0	0
CSEX	0	0	0	0	0
CAGE	0	0	0	0	0
BCD4SPX1	0	0	0	0	0
BCD4SPX2	0	0	0	0	0
BCD4SPX3	0	0	0	0	0

	BETA				
	LS0	LS1	LS2	CSEX	CAGE
S0	0	0	0	0	0
S1	0	0	0	0	0
S2	0	0	0	0	0
CBVLM2	0	0	0	0	0
CBVLM3	0	0	0	0	0
CBVLM4	0	0	0	0	0
CBVLM5	0	0	0	0	0
CAZTBL	0	0	0	0	0
CEFVBL	0	0	0	0	0
SQRTCD4	0	0	0	0	0
LS0	0	0	0	0	0
LS1	0	0	0	0	0
LS2	0	0	0	0	0
CSEX	0	0	0	0	0
CAGE	0	0	0	0	0
BCD4SPX1	0	0	0	0	0
BCD4SPX2	0	0	0	0	0
BCD4SPX3	0	0	0	0	0

	BETA		
	BCD4SPX1	BCD4SPX2	BCD4SPX3
S0	0	0	0
S1	0	0	0
S2	0	0	0
CBVLM2	0	0	0
CBVLM3	0	0	0
CBVLM4	0	0	0
CBVLM5	0	0	0
CAZTBL	0	0	0
CEFVBL	0	0	0
SQRTCD4	0	0	0
LS0	0	0	0
LS1	0	0	0
LS2	0	0	0
CSEX	0	0	0
CAGE	0	0	0
BCD4SPX1	0	0	0

	PSI				
	S0	S1	S2	CBVLM2	CBVLM3
BCD4SPX2	0	0	0		
BCD4SPX3	0	0	0		
S0	0				
S1	0	0			
S2	0	0	0		
CBVLM2	0	0	0	0	
CBVLM3	0	0	0	0	0
CBVLM4	0	0	0	0	0
CBVLM5	0	0	0	0	0
CAZTBL	0	0	0	0	0
CEFVBL	0	0	0	0	0
SQRTCD4	0	0	0	0	0
LS0	0	0	0	0	0
LS1	0	0	0	0	0
LS2	0	0	0	0	0
CSEX	0	0	0	0	0
CAGE	0	0	0	0	0
BCD4SPX1	0	0	0	0	0
BCD4SPX2	0	0	0	0	0
BCD4SPX3	0	0	0	0	0

	PSI				
	CBVLM4	CBVLM5	CAZTBL	CEFVBL	SQRTCD4
CBVLM4	0				
CBVLM5	0	0			
CAZTBL	0	0	0		
CEFVBL	0	0	0	0	
SQRTCD4	0	0	0	0	75
LS0	0	0	0	0	0
LS1	0	0	0	0	0
LS2	0	0	0	0	0
CSEX	0	0	0	0	0
CAGE	0	0	0	0	0
BCD4SPX1	0	0	0	0	0
BCD4SPX2	0	0	0	0	0
BCD4SPX3	0	0	0	0	0

	PSI				
	LS0	LS1	LS2	CSEX	CAGE
LS0	0				
LS1	0	0			
LS2	0	0	0		
CSEX	0	0	0	0	
CAGE	0	0	0	0	0
BCD4SPX1	0	0	0	0	0
BCD4SPX2	0	0	0	0	0
BCD4SPX3	0	0	0	0	0

	PSI		
	BCD4SPX1	BCD4SPX2	BCD4SPX3
BCD4SPX1	0		
BCD4SPX2	0	0	

BCD4SPX3                    0                    0                    0

PARAMETER SPECIFICATION FOR SA BETWEEN

	NU				
	CBVLM2	CBVLM3	CBVLM4	CBVLM5	CAZTBL
1	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>

	NU				
	CEFVBL	SQRTCD4	LS0	LS1	LS2
1	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>

	NU				
	CSEX	CAGE	BCD4SPX1	BCD4SPX2	BCD4SPX3
1	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>

	LAMBDA				
	S0	S1	S2	CBVLM2	CBVLM3
CBVLM2	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
CBVLM3	0	0	0	0	0
CBVLM4	0	0	0	0	0
CBVLM5	0	0	0	0	0
CAZTBL	0	0	0	0	0
CEFVBL	0	0	0	0	0
SQRTCD4	0	0	0	0	0
LS0	0	0	0	0	0
LS1	0	0	0	0	0
LS2	0	0	0	0	0
CSEX	0	0	0	0	0
CAGE	0	0	0	0	0
BCD4SPX1	0	0	0	0	0
BCD4SPX2	0	0	0	0	0
BCD4SPX3	0	0	0	0	0

	LAMBDA				
	CBVLM4	CBVLM5	CAZTBL	CEFVBL	SQRTCD4
CBVLM2	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
CBVLM3	0	0	0	0	0
CBVLM4	0	0	0	0	0
CBVLM5	0	0	0	0	0
CAZTBL	0	0	0	0	0
CEFVBL	0	0	0	0	0
SQRTCD4	0	0	0	0	0
LS0	0	0	0	0	0
LS1	0	0	0	0	0
LS2	0	0	0	0	0
CSEX	0	0	0	0	0
CAGE	0	0	0	0	0
BCD4SPX1	0	0	0	0	0
BCD4SPX2	0	0	0	0	0
BCD4SPX3	0	0	0	0	0

	LAMBDA				
	LS0	LS1	LS2	CSEX	CAGE
	<u>        </u>	<u>        </u>	<u>        </u>	<u>        </u>	<u>        </u>
CBVLM2	0	0	0	0	0
CBVLM3	0	0	0	0	0
CBVLM4	0	0	0	0	0
CBVLM5	0	0	0	0	0
CAZTBL	0	0	0	0	0
CEFVBL	0	0	0	0	0
SQRTCD4	0	0	0	0	0
LS0	0	0	0	0	0
LS1	0	0	0	0	0
LS2	0	0	0	0	0
CSEX	0	0	0	0	0
CAGE	0	0	0	0	0
BCD4SPX1	0	0	0	0	0
BCD4SPX2	0	0	0	0	0
BCD4SPX3	0	0	0	0	0

	LAMBDA		
	BCD4SPX1	BCD4SPX2	BCD4SPX3
	<u>        </u>	<u>        </u>	<u>        </u>
CBVLM2	0	0	0
CBVLM3	0	0	0
CBVLM4	0	0	0
CBVLM5	0	0	0
CAZTBL	0	0	0
CEFVBL	0	0	0
SQRTCD4	0	0	0
LS0	0	0	0
LS1	0	0	0
LS2	0	0	0
CSEX	0	0	0
CAGE	0	0	0
BCD4SPX1	0	0	0
BCD4SPX2	0	0	0
BCD4SPX3	0	0	0

	THETA				
	CBVLM2	CBVLM3	CBVLM4	CBVLM5	CAZTBL
	<u>        </u>	<u>        </u>	<u>        </u>	<u>        </u>	<u>        </u>
CBVLM2	0				
CBVLM3	0	0			
CBVLM4	0	0	0		
CBVLM5	0	0	0	0	
CAZTBL	0	0	0	0	0
CEFVBL	0	0	0	0	0
SQRTCD4	0	0	0	0	0
LS0	0	0	0	0	0
LS1	0	0	0	0	0
LS2	0	0	0	0	0
CSEX	0	0	0	0	0
CAGE	0	0	0	0	0
BCD4SPX1	0	0	0	0	0
BCD4SPX2	0	0	0	0	0
BCD4SPX3	0	0	0	0	0

	THETA				
	CEFVBL	SQRTCD4	LS0	LS1	LS2

CEFVBL	0				
SQRTCD4	0	0			
LS0	0	0	0		
LS1	0	0	0	0	
LS2	0	0	0	0	0
CSEX	0	0	0	0	0
CAGE	0	0	0	0	0
BCD4SPX1	0	0	0	0	0
BCD4SPX2	0	0	0	0	0
BCD4SPX3	0	0	0	0	0

THETA

	CSEX	CAGE	BCD4SPX1	BCD4SPX2	BCD4SPX3
CSEX	0				
CAGE	0	0			
BCD4SPX1	0	0	0		
BCD4SPX2	0	0	0	0	
BCD4SPX3	0	0	0	0	0

ALPHA

	S0	S1	S2	CBVLM2	CBVLM3
1	76	77	78	5	6

ALPHA

	CBVLM4	CBVLM5	CAZTBL	CEFVBL	SQRTCD4
1	7	8	9	10	79

ALPHA

	LS0	LS1	LS2	CSEX	CAGE
1	0	0	0	0	0

ALPHA

	BCD4SPX1	BCD4SPX2	BCD4SPX3		
1	0	0	0		

BETA

	S0	S1	S2	CBVLM2	CBVLM3
S0	0	0	0	0	0
S1	0	0	0	0	0
S2	0	0	0	0	0
CBVLM2	0	0	0	0	0
CBVLM3	0	0	0	0	0
CBVLM4	0	0	0	0	0
CBVLM5	0	0	0	0	0
CAZTBL	0	0	0	0	0
CEFVBL	0	0	0	0	0
SQRTCD4	0	0	0	12	13
LS0	0	0	0	0	0
LS1	0	0	0	0	0
LS2	0	0	0	0	0



CSEX	0	0	0	0	0
CAGE	0	0	0	0	0
BCD4SPX1	0	0	0	0	0
BCD4SPX2	0	0	0	0	0
BCD4SPX3	0	0	0	0	0

	BETA				
	CBVLM4	CBVLM5	CAZTBL	CEFVBL	SQRTCD4
S0	0	0	0	0	0
S1	0	0	0	0	0
S2	0	0	0	0	0
CBVLM2	0	0	0	0	0
CBVLM3	0	0	0	0	0
CBVLM4	0	0	0	0	0
CBVLM5	0	0	0	0	0
CAZTBL	0	0	0	0	0
CEFVBL	0	0	0	0	0
SQRTCD4	14	15	16	17	0
LS0	0	0	0	0	0
LS1	0	0	0	0	0
LS2	0	0	0	0	0
CSEX	0	0	0	0	0
CAGE	0	0	0	0	0
BCD4SPX1	0	0	0	0	0
BCD4SPX2	0	0	0	0	0
BCD4SPX3	0	0	0	0	0

	BETA				
	LS0	LS1	LS2	CSEX	CAGE
S0	0	0	0	0	0
S1	0	0	0	0	0
S2	0	0	0	0	0
CBVLM2	0	0	0	0	0
CBVLM3	0	0	0	0	0
CBVLM4	0	0	0	0	0
CBVLM5	0	0	0	0	0
CAZTBL	0	0	0	0	0
CEFVBL	0	0	0	0	0
SQRTCD4	0	0	0	18	19
LS0	0	0	0	0	0
LS1	0	0	0	0	0
LS2	0	0	0	0	0
CSEX	0	0	0	0	0
CAGE	0	0	0	0	0
BCD4SPX1	0	0	0	0	0
BCD4SPX2	0	0	0	0	0
BCD4SPX3	0	0	0	0	0

	BETA		
	BCD4SPX1	BCD4SPX2	BCD4SPX3
S0	0	0	0
S1	0	0	0
S2	0	0	0
CBVLM2	0	0	0
CBVLM3	0	0	0
CBVLM4	0	0	0
CBVLM5	0	0	0

CAZTBL	0	0	0
CEFVBL	0	0	0
SQRTCD4	80	81	82
LS0	0	0	0
LS1	0	0	0
LS2	0	0	0
CSEX	0	0	0
CAGE	0	0	0
BCD4SPX1	0	0	0
BCD4SPX2	0	0	0
BCD4SPX3	0	0	0

	PSI				
	S0	S1	S2	CBVLM2	CBVLM3
S0	83				
S1	84	85			
S2	86	87	88		
CBVLM2	0	0	0	29	
CBVLM3	0	0	0	0	30
CBVLM4	0	0	0	0	0
CBVLM5	0	0	0	0	0
CAZTBL	0	0	0	0	0
CEFVBL	0	0	0	0	0
SQRTCD4	89	90	91	0	0
LS0	0	0	0	0	0
LS1	0	0	0	0	0
LS2	0	0	0	0	0
CSEX	0	0	0	0	0
CAGE	0	0	0	0	0
BCD4SPX1	0	0	0	0	0
BCD4SPX2	0	0	0	0	0
BCD4SPX3	0	0	0	0	0

	PSI				
	CBVLM4	CBVLM5	CAZTBL	CEFVBL	SQRTCD4
CBVLM4	31				
CBVLM5	0	32			
CAZTBL	0	0	33		
CEFVBL	0	0	0	34	
SQRTCD4	0	0	0	0	92
LS0	0	0	0	0	0
LS1	0	0	0	0	0
LS2	0	0	0	0	0
CSEX	0	0	0	0	0
CAGE	0	0	0	0	0
BCD4SPX1	0	0	0	0	0
BCD4SPX2	0	0	0	0	0
BCD4SPX3	0	0	0	0	0

	PSI				
	LS0	LS1	LS2	CSEX	CAGE
LS0	0				
LS1	0	0			
LS2	0	0	0		
CSEX	0	0	0	0	
CAGE	0	0	0	0	0
BCD4SPX1	0	0	0	0	0

BCD4SPX2	0	0	0	0	0
BCD4SPX3	0	0	0	0	0

PSI

	BCD4SPX1	BCD4SPX2	BCD4SPX3
BCD4SPX1	0		
BCD4SPX2	0	0	
BCD4SPX3	0	0	0

PARAMETER SPECIFICATION FOR ASIA WITHIN

NU

	CBVLM2	CBVLM3	CBVLM4	CBVLM5	CAZTBL
1	0	0	0	0	0

NU

	CEFVBL	SQRTCD4	LS0	LS1	LS2
1	0	0	0	0	0

NU

	CSEX	CAGE	BCD4SPX1	BCD4SPX2	BCD4SPX3
1	0	0	0	0	0

LAMBDA

	S0	S1	S2	CBVLM2	CBVLM3
CBVLM2	0	0	0	0	0
CBVLM3	0	0	0	0	0
CBVLM4	0	0	0	0	0
CBVLM5	0	0	0	0	0
CAZTBL	0	0	0	0	0
CEFVBL	0	0	0	0	0
SQRTCD4	0	0	0	0	0
LS0	0	0	0	0	0
LS1	0	0	0	0	0
LS2	0	0	0	0	0
CSEX	0	0	0	0	0
CAGE	0	0	0	0	0
BCD4SPX1	0	0	0	0	0
BCD4SPX2	0	0	0	0	0
BCD4SPX3	0	0	0	0	0

LAMBDA

	CBVLM4	CBVLM5	CAZTBL	CEFVBL	SQRTCD4
CBVLM2	0	0	0	0	0
CBVLM3	0	0	0	0	0
CBVLM4	0	0	0	0	0
CBVLM5	0	0	0	0	0
CAZTBL	0	0	0	0	0
CEFVBL	0	0	0	0	0
SQRTCD4	0	0	0	0	0

LS0	0	0	0	0	0
LS1	0	0	0	0	0
LS2	0	0	0	0	0
CSEX	0	0	0	0	0
CAGE	0	0	0	0	0
BCD4SPX1	0	0	0	0	0
BCD4SPX2	0	0	0	0	0
BCD4SPX3	0	0	0	0	0

LAMBDA					
	LS0	LS1	LS2	CSEX	CAGE
CBVLM2	0	0	0	0	0
CBVLM3	0	0	0	0	0
CBVLM4	0	0	0	0	0
CBVLM5	0	0	0	0	0
CAZTBL	0	0	0	0	0
CEFVBL	0	0	0	0	0
SQRTCD4	0	0	0	0	0
LS0	0	0	0	0	0
LS1	0	0	0	0	0
LS2	0	0	0	0	0
CSEX	0	0	0	0	0
CAGE	0	0	0	0	0
BCD4SPX1	0	0	0	0	0
BCD4SPX2	0	0	0	0	0
BCD4SPX3	0	0	0	0	0

LAMBDA			
	BCD4SPX1	BCD4SPX2	BCD4SPX3
CBVLM2	0	0	0
CBVLM3	0	0	0
CBVLM4	0	0	0
CBVLM5	0	0	0
CAZTBL	0	0	0
CEFVBL	0	0	0
SQRTCD4	0	0	0
LS0	0	0	0
LS1	0	0	0
LS2	0	0	0
CSEX	0	0	0
CAGE	0	0	0
BCD4SPX1	0	0	0
BCD4SPX2	0	0	0
BCD4SPX3	0	0	0

THETA					
	CBVLM2	CBVLM3	CBVLM4	CBVLM5	CAZTBL
CBVLM2	0				
CBVLM3	0	0			
CBVLM4	0	0	0		
CBVLM5	0	0	0	0	
CAZTBL	0	0	0	0	0
CEFVBL	0	0	0	0	0
SQRTCD4	0	0	0	0	0
LS0	0	0	0	0	0
LS1	0	0	0	0	0
LS2	0	0	0	0	0

CSEX	0	0	0	0	0
CAGE	0	0	0	0	0
BCD4SPX1	0	0	0	0	0
BCD4SPX2	0	0	0	0	0
BCD4SPX3	0	0	0	0	0

THETA

	CEFVBL	SQRTCD4	LS0	LS1	LS2
CEFVBL	0				
SQRTCD4	0	0			
LS0	0	0	0		
LS1	0	0	0	0	
LS2	0	0	0	0	0
CSEX	0	0	0	0	0
CAGE	0	0	0	0	0
BCD4SPX1	0	0	0	0	0
BCD4SPX2	0	0	0	0	0
BCD4SPX3	0	0	0	0	0

THETA

	CSEX	CAGE	BCD4SPX1	BCD4SPX2	BCD4SPX3
CSEX	0				
CAGE	0	0			
BCD4SPX1	0	0	0		
BCD4SPX2	0	0	0	0	
BCD4SPX3	0	0	0	0	0

ALPHA

	S0	S1	S2	CBVLM2	CBVLM3
1	0	0	0	0	0

ALPHA

	CBVLM4	CBVLM5	CAZTBL	CEFVBL	SQRTCD4
1	0	0	0	0	0

ALPHA

	LS0	LS1	LS2	CSEX	CAGE
1	0	0	0	0	0

ALPHA

	BCD4SPX1	BCD4SPX2	BCD4SPX3
1	0	0	0

BETA

	S0	S1	S2	CBVLM2	CBVLM3
S0	0	0	0	0	0
S1	0	0	0	0	0
S2	0	0	0	0	0
CBVLM2	0	0	0	0	0

CBVLM3	0	0	0	0	0
CBVLM4	0	0	0	0	0
CBVLM5	0	0	0	0	0
CAZTBL	0	0	0	0	0
CEFVBL	0	0	0	0	0
SQRTCD4	0	0	0	0	0
LS0	0	0	0	0	0
LS1	0	0	0	0	0
LS2	0	0	0	0	0
CSEX	0	0	0	0	0
CAGE	0	0	0	0	0
BCD4SPX1	0	0	0	0	0
BCD4SPX2	0	0	0	0	0
BCD4SPX3	0	0	0	0	0

BETA					
	CBVLM4	CBVLM5	CAZTBL	CEFVBL	SQRTCD4
S0	0	0	0	0	0
S1	0	0	0	0	0
S2	0	0	0	0	0
CBVLM2	0	0	0	0	0
CBVLM3	0	0	0	0	0
CBVLM4	0	0	0	0	0
CBVLM5	0	0	0	0	0
CAZTBL	0	0	0	0	0
CEFVBL	0	0	0	0	0
SQRTCD4	0	0	0	0	0
LS0	0	0	0	0	0
LS1	0	0	0	0	0
LS2	0	0	0	0	0
CSEX	0	0	0	0	0
CAGE	0	0	0	0	0
BCD4SPX1	0	0	0	0	0
BCD4SPX2	0	0	0	0	0
BCD4SPX3	0	0	0	0	0

BETA					
	LS0	LS1	LS2	CSEX	CAGE
S0	0	0	0	0	0
S1	0	0	0	0	0
S2	0	0	0	0	0
CBVLM2	0	0	0	0	0
CBVLM3	0	0	0	0	0
CBVLM4	0	0	0	0	0
CBVLM5	0	0	0	0	0
CAZTBL	0	0	0	0	0
CEFVBL	0	0	0	0	0
SQRTCD4	0	0	0	0	0
LS0	0	0	0	0	0
LS1	0	0	0	0	0
LS2	0	0	0	0	0
CSEX	0	0	0	0	0
CAGE	0	0	0	0	0
BCD4SPX1	0	0	0	0	0
BCD4SPX2	0	0	0	0	0
BCD4SPX3	0	0	0	0	0

BETA

	BCD4SPX1	BCD4SPX2	BCD4SPX3
S0	0	0	0
S1	0	0	0
S2	0	0	0
CBVLM2	0	0	0
CBVLM3	0	0	0
CBVLM4	0	0	0
CBVLM5	0	0	0
CAZTBL	0	0	0
CEFVBL	0	0	0
SQRTCD4	0	0	0
LS0	0	0	0
LS1	0	0	0
LS2	0	0	0
CSEX	0	0	0
CAGE	0	0	0
BCD4SPX1	0	0	0
BCD4SPX2	0	0	0
BCD4SPX3	0	0	0

	PSI				
	S0	S1	S2	CBVLM2	CBVLM3
S0	0				
S1	0	0			
S2	0	0	0		
CBVLM2	0	0	0	0	
CBVLM3	0	0	0	0	0
CBVLM4	0	0	0	0	0
CBVLM5	0	0	0	0	0
CAZTBL	0	0	0	0	0
CEFVBL	0	0	0	0	0
SQRTCD4	0	0	0	0	0
LS0	0	0	0	0	0
LS1	0	0	0	0	0
LS2	0	0	0	0	0
CSEX	0	0	0	0	0
CAGE	0	0	0	0	0
BCD4SPX1	0	0	0	0	0
BCD4SPX2	0	0	0	0	0
BCD4SPX3	0	0	0	0	0

	PSI				
	CBVLM4	CBVLM5	CAZTBL	CEFVBL	SQRTCD4
CBVLM4	0				
CBVLM5	0	0			
CAZTBL	0	0	0		
CEFVBL	0	0	0	0	
SQRTCD4	0	0	0	0	93
LS0	0	0	0	0	0
LS1	0	0	0	0	0
LS2	0	0	0	0	0
CSEX	0	0	0	0	0
CAGE	0	0	0	0	0
BCD4SPX1	0	0	0	0	0
BCD4SPX2	0	0	0	0	0
BCD4SPX3	0	0	0	0	0

PSI					
	LS0	LS1	LS2	CSEX	CAGE
LS0	0				
LS1	0	0			
LS2	0	0	0		
CSEX	0	0	0	0	
CAGE	0	0	0	0	0
BCD4SPX1	0	0	0	0	0
BCD4SPX2	0	0	0	0	0
BCD4SPX3	0	0	0	0	0

PSI			
	BCD4SPX1	BCD4SPX2	BCD4SPX3
BCD4SPX1	0		
BCD4SPX2	0	0	
BCD4SPX3	0	0	0

PARAMETER SPECIFICATION FOR ASIA BETWEEN

NU					
	CBVLM2	CBVLM3	CBVLM4	CBVLM5	CAZTBL
1	0	0	0	0	0

NU					
	CEFVBL	SQRTCD4	LS0	LS1	LS2
1	0	0	0	0	0

NU					
	CSEX	CAGE	BCD4SPX1	BCD4SPX2	BCD4SPX3
1	0	0	0	0	0

LAMBDA					
	S0	S1	S2	CBVLM2	CBVLM3
CBVLM2	0	0	0	0	0
CBVLM3	0	0	0	0	0
CBVLM4	0	0	0	0	0
CBVLM5	0	0	0	0	0
CAZTBL	0	0	0	0	0
CEFVBL	0	0	0	0	0
SQRTCD4	0	0	0	0	0
LS0	0	0	0	0	0
LS1	0	0	0	0	0
LS2	0	0	0	0	0
CSEX	0	0	0	0	0
CAGE	0	0	0	0	0
BCD4SPX1	0	0	0	0	0
BCD4SPX2	0	0	0	0	0
BCD4SPX3	0	0	0	0	0

LAMBDA



	CBVLM4	CBVLM5	CAZTBL	CEFVBL	SQRTCD4
CBVLM2	0	0	0	0	0
CBVLM3	0	0	0	0	0
CBVLM4	0	0	0	0	0
CBVLM5	0	0	0	0	0
CAZTBL	0	0	0	0	0
CEFVBL	0	0	0	0	0
SQRTCD4	0	0	0	0	0
LS0	0	0	0	0	0
LS1	0	0	0	0	0
LS2	0	0	0	0	0
CSEX	0	0	0	0	0
CAGE	0	0	0	0	0
BCD4SPX1	0	0	0	0	0
BCD4SPX2	0	0	0	0	0
BCD4SPX3	0	0	0	0	0

	LAMBDA LS0	LS1	LS2	CSEX	CAGE
CBVLM2	0	0	0	0	0
CBVLM3	0	0	0	0	0
CBVLM4	0	0	0	0	0
CBVLM5	0	0	0	0	0
CAZTBL	0	0	0	0	0
CEFVBL	0	0	0	0	0
SQRTCD4	0	0	0	0	0
LS0	0	0	0	0	0
LS1	0	0	0	0	0
LS2	0	0	0	0	0
CSEX	0	0	0	0	0
CAGE	0	0	0	0	0
BCD4SPX1	0	0	0	0	0
BCD4SPX2	0	0	0	0	0
BCD4SPX3	0	0	0	0	0

	LAMBDA BCD4SPX1	BCD4SPX2	BCD4SPX3
CBVLM2	0	0	0
CBVLM3	0	0	0
CBVLM4	0	0	0
CBVLM5	0	0	0
CAZTBL	0	0	0
CEFVBL	0	0	0
SQRTCD4	0	0	0
LS0	0	0	0
LS1	0	0	0
LS2	0	0	0
CSEX	0	0	0
CAGE	0	0	0
BCD4SPX1	0	0	0
BCD4SPX2	0	0	0
BCD4SPX3	0	0	0

	THETA CBVLM2	CBVLM3	CBVLM4	CBVLM5	CAZTBL
CBVLM2	0				

CBVLM3	0	0			
CBVLM4	0	0	0		
CBVLM5	0	0	0	0	
CAZTBL	0	0	0	0	0
CEFVBL	0	0	0	0	0
SQRTCD4	0	0	0	0	0
LS0	0	0	0	0	0
LS1	0	0	0	0	0
LS2	0	0	0	0	0
CSEX	0	0	0	0	0
CAGE	0	0	0	0	0
BCD4SPX1	0	0	0	0	0
BCD4SPX2	0	0	0	0	0
BCD4SPX3	0	0	0	0	0

THETA

	CEFVBL	SQRTCD4	LS0	LS1	LS2
CEFVBL	0				
SQRTCD4	0	0			
LS0	0	0	0		
LS1	0	0	0	0	
LS2	0	0	0	0	0
CSEX	0	0	0	0	0
CAGE	0	0	0	0	0
BCD4SPX1	0	0	0	0	0
BCD4SPX2	0	0	0	0	0
BCD4SPX3	0	0	0	0	0

THETA

	CSEX	CAGE	BCD4SPX1	BCD4SPX2	BCD4SPX3
CSEX	0				
CAGE	0	0			
BCD4SPX1	0	0	0		
BCD4SPX2	0	0	0	0	
BCD4SPX3	0	0	0	0	0

ALPHA

	S0	S1	S2	CBVLM2	CBVLM3
1	94	95	96	5	6

ALPHA

	CBVLM4	CBVLM5	CAZTBL	CEFVBL	SQRTCD4
1	7	8	9	10	97

ALPHA

	LS0	LS1	LS2	CSEX	CAGE
1	0	0	0	0	0

ALPHA

	BCD4SPX1	BCD4SPX2	BCD4SPX3
1	0	0	0

	BETA				
	S0	S1	S2	CBVLM2	CBVLM3
S0	0	0	0	0	0
S1	0	0	0	0	0
S2	0	0	0	0	0
CBVLM2	0	0	0	0	0
CBVLM3	0	0	0	0	0
CBVLM4	0	0	0	0	0
CBVLM5	0	0	0	0	0
CAZTBL	0	0	0	0	0
CEFVBL	0	0	0	0	0
SQRTCD4	0	0	0	12	13
LS0	0	0	0	0	0
LS1	0	0	0	0	0
LS2	0	0	0	0	0
CSEX	0	0	0	0	0
CAGE	0	0	0	0	0
BCD4SPX1	0	0	0	0	0
BCD4SPX2	0	0	0	0	0
BCD4SPX3	0	0	0	0	0

	BETA				
	CBVLM4	CBVLM5	CAZTBL	CEFVBL	SQRTCD4
S0	0	0	0	0	0
S1	0	0	0	0	0
S2	0	0	0	0	0
CBVLM2	0	0	0	0	0
CBVLM3	0	0	0	0	0
CBVLM4	0	0	0	0	0
CBVLM5	0	0	0	0	0
CAZTBL	0	0	0	0	0
CEFVBL	0	0	0	0	0
SQRTCD4	14	15	16	17	0
LS0	0	0	0	0	0
LS1	0	0	0	0	0
LS2	0	0	0	0	0
CSEX	0	0	0	0	0
CAGE	0	0	0	0	0
BCD4SPX1	0	0	0	0	0
BCD4SPX2	0	0	0	0	0
BCD4SPX3	0	0	0	0	0

	BETA				
	LS0	LS1	LS2	CSEX	CAGE
S0	0	0	0	0	0
S1	0	0	0	0	0
S2	0	0	0	0	0
CBVLM2	0	0	0	0	0
CBVLM3	0	0	0	0	0
CBVLM4	0	0	0	0	0
CBVLM5	0	0	0	0	0
CAZTBL	0	0	0	0	0
CEFVBL	0	0	0	0	0
SQRTCD4	0	0	0	18	19
LS0	0	0	0	0	0
LS1	0	0	0	0	0

LS2	0	0	0	0	0
CSEX	0	0	0	0	0
CAGE	0	0	0	0	0
BCD4SPX1	0	0	0	0	0
BCD4SPX2	0	0	0	0	0
BCD4SPX3	0	0	0	0	0

BETA

	BCD4SPX1	BCD4SPX2	BCD4SPX3
S0	0	0	0
S1	0	0	0
S2	0	0	0
CBVLM2	0	0	0
CBVLM3	0	0	0
CBVLM4	0	0	0
CBVLM5	0	0	0
CAZTBL	0	0	0
CEFVBL	0	0	0
SQRTCD4	98	99	100
LS0	0	0	0
LS1	0	0	0
LS2	0	0	0
CSEX	0	0	0
CAGE	0	0	0
BCD4SPX1	0	0	0
BCD4SPX2	0	0	0
BCD4SPX3	0	0	0

PSI

	S0	S1	S2	CBVLM2	CBVLM3
S0	101				
S1	102	103			
S2	104	105	106		
CBVLM2	0	0	0	29	
CBVLM3	0	0	0	0	30
CBVLM4	0	0	0	0	0
CBVLM5	0	0	0	0	0
CAZTBL	0	0	0	0	0
CEFVBL	0	0	0	0	0
SQRTCD4	107	108	109	0	0
LS0	0	0	0	0	0
LS1	0	0	0	0	0
LS2	0	0	0	0	0
CSEX	0	0	0	0	0
CAGE	0	0	0	0	0
BCD4SPX1	0	0	0	0	0
BCD4SPX2	0	0	0	0	0
BCD4SPX3	0	0	0	0	0

PSI

	CBVLM4	CBVLM5	CAZTBL	CEFVBL	SQRTCD4
CBVLM4	31				
CBVLM5	0	32			
CAZTBL	0	0	33		
CEFVBL	0	0	0	34	
SQRTCD4	0	0	0	0	110
LS0	0	0	0	0	0

LS1	0	0	0	0	0
LS2	0	0	0	0	0
CSEX	0	0	0	0	0
CAGE	0	0	0	0	0
BCD4SPX1	0	0	0	0	0
BCD4SPX2	0	0	0	0	0
BCD4SPX3	0	0	0	0	0

	PSI				
	LS0	LS1	LS2	CSEX	CAGE
LS0	0				
LS1	0	0			
LS2	0	0	0		
CSEX	0	0	0	0	
CAGE	0	0	0	0	0
BCD4SPX1	0	0	0	0	0
BCD4SPX2	0	0	0	0	0
BCD4SPX3	0	0	0	0	0

	PSI		
	BCD4SPX1	BCD4SPX2	BCD4SPX3
BCD4SPX1	0		
BCD4SPX2	0	0	
BCD4SPX3	0	0	0

PARAMETER SPECIFICATION FOR THE ADDITIONAL PARAMETERS

	NEW/ADDITIONAL PARAMETERS				
	M111	M121	M141	M151	M161
1	111	112	113	114	115

	NEW/ADDITIONAL PARAMETERS				
	M181	M211	M221	M241	M251
1	116	117	118	119	120

	NEW/ADDITIONAL PARAMETERS				
	M261	M281	M311	M321	M341
1	121	122	123	124	125

	NEW/ADDITIONAL PARAMETERS				
	M351	M361	M381	M411	M421
1	126	127	128	129	130

	NEW/ADDITIONAL PARAMETERS				
	M441	M451	M461	M481	M511
1	131	132	133	134	135

	NEW/ADDITIONAL M521	PARAMETERS M541	M551	M561	M581
1	136	137	138	139	140
	NEW/ADDITIONAL M112	PARAMETERS M122	M142	M152	M162
1	141	142	143	144	145
	NEW/ADDITIONAL M182	PARAMETERS M212	M222	M242	M252
1	146	147	148	149	150
	NEW/ADDITIONAL M262	PARAMETERS M282	M312	M322	M342
1	151	152	153	154	155
	NEW/ADDITIONAL M352	PARAMETERS M362	M382	M412	M422
1	156	157	158	159	160
	NEW/ADDITIONAL M442	PARAMETERS M452	M462	M482	M512
1	161	162	163	164	165
	NEW/ADDITIONAL M522	PARAMETERS M542	M552	M562	M582
1	166	167	168	169	170
	NEW/ADDITIONAL M113	PARAMETERS M123	M143	M153	M163
1	171	172	173	174	175
	NEW/ADDITIONAL M183	PARAMETERS M213	M223	M243	M253
1	176	177	178	179	180
	NEW/ADDITIONAL M263	PARAMETERS M283	M313	M323	M343
1	181	182	183	184	185
	NEW/ADDITIONAL M353	PARAMETERS M363	M383	M413	M423

1	186	187	188	189	190
	NEW/ADDITIONAL M443	PARAMETERS M453	M463	M483	M513
1	191	192	193	194	195
	NEW/ADDITIONAL M523	PARAMETERS M543	M553	M563	M583
1	196	197	198	199	200
	NEW/ADDITIONAL M111X	PARAMETERS M121X	M141X	M151X	M161X
1	201	202	203	204	205
	NEW/ADDITIONAL M181X	PARAMETERS M211X	M221X	M241X	M251X
1	206	207	208	209	210
	NEW/ADDITIONAL M261X	PARAMETERS M281X	M311X	M321X	M341X
1	211	212	213	214	215
	NEW/ADDITIONAL M351X	PARAMETERS M361X	M381X	M411X	M421X
1	216	217	218	219	220
	NEW/ADDITIONAL M441X	PARAMETERS M451X	M461X	M481X	M511X
1	221	222	223	224	225
	NEW/ADDITIONAL M521X	PARAMETERS M541X	M551X	M561X	M581X
1	226	227	228	229	230
	NEW/ADDITIONAL M112X	PARAMETERS M122X	M142X	M152X	M162X
1	231	232	233	234	235
	NEW/ADDITIONAL M182X	PARAMETERS M212X	M222X	M242X	M252X
1	236	237	238	239	240

	NEW/ADDITIONAL M262X	PARAMETERS M282X	M312X	M322X	M342X
1	241	242	243	244	245
	NEW/ADDITIONAL M352X	PARAMETERS M362X	M382X	M412X	M422X
1	246	247	248	249	250
	NEW/ADDITIONAL M442X	PARAMETERS M452X	M462X	M482X	M512X
1	251	252	253	254	255
	NEW/ADDITIONAL M522X	PARAMETERS M542X	M552X	M562X	M582X
1	256	257	258	259	260
	NEW/ADDITIONAL M113X	PARAMETERS M123X	M143X	M153X	M163X
1	261	262	263	264	265
	NEW/ADDITIONAL M183X	PARAMETERS M213X	M223X	M243X	M253X
1	266	267	268	269	270
	NEW/ADDITIONAL M263X	PARAMETERS M283X	M313X	M323X	M343X
1	271	272	273	274	275
	NEW/ADDITIONAL M353X	PARAMETERS M363X	M383X	M413X	M423X
1	276	277	278	279	280
	NEW/ADDITIONAL M443X	PARAMETERS M453X	M463X	M483X	M513X
1	281	282	283	284	285
	NEW/ADDITIONAL M523X	PARAMETERS M543X	M553X	M563X	M583X
1	286	287	288	289	290
	NEW/ADDITIONAL NS_1_25	PARAMETERS NS_1_50	NS_1_100	NS_1_150	NS_1_200



1	291	292	293	294	295
	NEW/ADDITIONAL NS_1_300	PARAMETERS NS_2_25	NS_2_50	NS_2_100	NS_2_150
1	296	297	298	299	300
	NEW/ADDITIONAL NS_2_200	PARAMETERS NS_2_300	NS_3_25	NS_3_50	NS_3_100
1	301	302	303	304	305
	NEW/ADDITIONAL NS_3_150	PARAMETERS NS_3_200	NS_3_300	NE_1_25	NE_1_50
1	306	307	308	309	310
	NEW/ADDITIONAL NE_1_100	PARAMETERS NE_1_150	NE_1_200	NE_1_300	NE_2_25
1	311	312	313	314	315
	NEW/ADDITIONAL NE_2_50	PARAMETERS NE_2_100	NE_2_150	NE_2_200	NE_2_300
1	316	317	318	319	320
	NEW/ADDITIONAL NE_3_25	PARAMETERS NE_3_50	NE_3_100	NE_3_150	NE_3_200
1	321	322	323	324	325
	NEW/ADDITIONAL NE_3_300	PARAMETERS NW_1_25	NW_1_50	NW_1_100	NW_1_150
1	326	327	328	329	330
	NEW/ADDITIONAL NW_1_200	PARAMETERS NW_1_300	NW_2_25	NW_2_50	NW_2_100
1	331	332	333	334	335
	NEW/ADDITIONAL NW_2_150	PARAMETERS NW_2_200	NW_2_300	NW_3_25	NW_3_50
1	336	337	338	339	340
	NEW/ADDITIONAL NW_3_100	PARAMETERS NW_3_150	NW_3_200	NW_3_300	NA_1_25
1	341	342	343	344	345

	NEW/ADDITIONAL NA_1_50	PARAMETERS NA_1_100	NA_1_150	NA_1_200	NA_1_300
1	<u>346</u>	<u>347</u>	<u>348</u>	<u>349</u>	<u>350</u>
	NEW/ADDITIONAL NA_2_25	PARAMETERS NA_2_50	NA_2_100	NA_2_150	NA_2_200
1	<u>351</u>	<u>352</u>	<u>353</u>	<u>354</u>	<u>355</u>
	NEW/ADDITIONAL NA_2_300	PARAMETERS NA_3_25	NA_3_50	NA_3_100	NA_3_150
1	<u>356</u>	<u>357</u>	<u>358</u>	<u>359</u>	<u>360</u>
	NEW/ADDITIONAL NA_3_200	PARAMETERS NA_3_300	SE_1_25	SE_1_50	SE_1_100
1	<u>361</u>	<u>362</u>	<u>363</u>	<u>364</u>	<u>365</u>
	NEW/ADDITIONAL SE_1_150	PARAMETERS SE_1_200	SE_1_300	SE_2_25	SE_2_50
1	<u>366</u>	<u>367</u>	<u>368</u>	<u>369</u>	<u>370</u>
	NEW/ADDITIONAL SE_2_100	PARAMETERS SE_2_150	SE_2_200	SE_2_300	SE_3_25
1	<u>371</u>	<u>372</u>	<u>373</u>	<u>374</u>	<u>375</u>
	NEW/ADDITIONAL SE_3_50	PARAMETERS SE_3_100	SE_3_150	SE_3_200	SE_3_300
1	<u>376</u>	<u>377</u>	<u>378</u>	<u>379</u>	<u>380</u>
	NEW/ADDITIONAL SW_1_25	PARAMETERS SW_1_50	SW_1_100	SW_1_150	SW_1_200
1	<u>381</u>	<u>382</u>	<u>383</u>	<u>384</u>	<u>385</u>
	NEW/ADDITIONAL SW_1_300	PARAMETERS SW_2_25	SW_2_50	SW_2_100	SW_2_150
1	<u>386</u>	<u>387</u>	<u>388</u>	<u>389</u>	<u>390</u>
	NEW/ADDITIONAL SW_2_200	PARAMETERS SW_2_300	SW_3_25	SW_3_50	SW_3_100
1	<u>391</u>	<u>392</u>	<u>393</u>	<u>394</u>	<u>395</u>
	NEW/ADDITIONAL SW_3_150	PARAMETERS SW_3_200	SW_3_300	SA_1_25	SA_1_50
	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>

1	396	397	398	399	400
	NEW/ADDITIONAL PARAMETERS				
	SA_1_100	SA_1_150	SA_1_200	SA_1_300	SA_2_25
1	401	402	403	404	405
	NEW/ADDITIONAL PARAMETERS				
	SA_2_50	SA_2_100	SA_2_150	SA_2_200	SA_2_300
1	406	407	408	409	410
	NEW/ADDITIONAL PARAMETERS				
	SA_3_25	SA_3_50	SA_3_100	SA_3_150	SA_3_200
1	411	412	413	414	415
	NEW/ADDITIONAL PARAMETERS				
	SA_3_300	EW_1_25	EW_1_50	EW_1_100	EW_1_150
1	416	417	418	419	420
	NEW/ADDITIONAL PARAMETERS				
	EW_1_200	EW_1_300	EW_2_25	EW_2_50	EW_2_100
1	421	422	423	424	425
	NEW/ADDITIONAL PARAMETERS				
	EW_2_150	EW_2_200	EW_2_300	EW_3_25	EW_3_50
1	426	427	428	429	430
	NEW/ADDITIONAL PARAMETERS				
	EW_3_100	EW_3_150	EW_3_200	EW_3_300	EA_1_25
1	431	432	433	434	435
	NEW/ADDITIONAL PARAMETERS				
	EA_1_50	EA_1_100	EA_1_150	EA_1_200	EA_1_300
1	436	437	438	439	440
	NEW/ADDITIONAL PARAMETERS				
	EA_2_25	EA_2_50	EA_2_100	EA_2_150	EA_2_200
1	441	442	443	444	445
	NEW/ADDITIONAL PARAMETERS				
	EA_2_300	EA_3_25	EA_3_50	EA_3_100	EA_3_150
1	446	447	448	449	450

	NEW/ADDITIONAL EA_3_200	PARAMETERS EA_3_300	WA_1_25	WA_1_50	WA_1_100
1	451	452	453	454	455

	NEW/ADDITIONAL WA_1_150	PARAMETERS WA_1_200	WA_1_300	WA_2_25	WA_2_50
1	456	457	458	459	460

	NEW/ADDITIONAL WA_2_100	PARAMETERS WA_2_150	WA_2_200	WA_2_300	WA_3_25
1	461	462	463	464	465

	NEW/ADDITIONAL WA_3_50	PARAMETERS WA_3_100	WA_3_150	WA_3_200	WA_3_300
1	466	467	468	469	470

	NEW/ADDITIONAL U1	PARAMETERS U2	U3	U4	U5
1	471	472	473	474	475

STARTING VALUES FOR NA WITHIN

	NU CBVLM2	CBVLM3	CBVLM4	CBVLM5	CAZTBL
1	0.000	0.000	0.000	0.000	0.000

	NU CEFVBL	SQRTCD4	LS0	LS1	LS2
1	0.000	0.000	0.000	0.000	0.000

	NU CSEX	CAGE	BCD4SPX1	BCD4SPX2	BCD4SPX3
1	0.000	0.000	0.000	0.000	0.000

	LAMBDA S0	S1	S2	CBVLM2	CBVLM3
CBVLM2	0.000	0.000	0.000	1.000	0.000
CBVLM3	0.000	0.000	0.000	0.000	1.000
CBVLM4	0.000	0.000	0.000	0.000	0.000
CBVLM5	0.000	0.000	0.000	0.000	0.000
CAZTBL	0.000	0.000	0.000	0.000	0.000
CEFVBL	0.000	0.000	0.000	0.000	0.000
SQRTCD4	0.000	0.000	0.000	0.000	0.000
LS0	0.000	0.000	0.000	0.000	0.000
LS1	0.000	0.000	0.000	0.000	0.000

LS2	0.000	0.000	0.000	0.000	0.000
CSEX	0.000	0.000	0.000	0.000	0.000
CAGE	0.000	0.000	0.000	0.000	0.000
BCD4SPX1	0.000	0.000	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

LAMBDA					
	CBVLM4	CBVLM5	CAZTBL	CEFVBL	SQRTCD4
CBVLM2	0.000	0.000	0.000	0.000	0.000
CBVLM3	0.000	0.000	0.000	0.000	0.000
CBVLM4	1.000	0.000	0.000	0.000	0.000
CBVLM5	0.000	1.000	0.000	0.000	0.000
CAZTBL	0.000	0.000	1.000	0.000	0.000
CEFVBL	0.000	0.000	0.000	1.000	0.000
SQRTCD4	0.000	0.000	0.000	0.000	1.000
LS0	0.000	0.000	0.000	0.000	0.000
LS1	0.000	0.000	0.000	0.000	0.000
LS2	0.000	0.000	0.000	0.000	0.000
CSEX	0.000	0.000	0.000	0.000	0.000
CAGE	0.000	0.000	0.000	0.000	0.000
BCD4SPX1	0.000	0.000	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

LAMBDA					
	LS0	LS1	LS2	CSEX	CAGE
CBVLM2	0.000	0.000	0.000	0.000	0.000
CBVLM3	0.000	0.000	0.000	0.000	0.000
CBVLM4	0.000	0.000	0.000	0.000	0.000
CBVLM5	0.000	0.000	0.000	0.000	0.000
CAZTBL	0.000	0.000	0.000	0.000	0.000
CEFVBL	0.000	0.000	0.000	0.000	0.000
SQRTCD4	0.000	0.000	0.000	0.000	0.000
LS0	1.000	0.000	0.000	0.000	0.000
LS1	0.000	1.000	0.000	0.000	0.000
LS2	0.000	0.000	1.000	0.000	0.000
CSEX	0.000	0.000	0.000	1.000	0.000
CAGE	0.000	0.000	0.000	0.000	1.000
BCD4SPX1	0.000	0.000	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

LAMBDA			
	BCD4SPX1	BCD4SPX2	BCD4SPX3
CBVLM2	0.000	0.000	0.000
CBVLM3	0.000	0.000	0.000
CBVLM4	0.000	0.000	0.000
CBVLM5	0.000	0.000	0.000
CAZTBL	0.000	0.000	0.000
CEFVBL	0.000	0.000	0.000
SQRTCD4	0.000	0.000	0.000
LS0	0.000	0.000	0.000
LS1	0.000	0.000	0.000
LS2	0.000	0.000	0.000
CSEX	0.000	0.000	0.000
CAGE	0.000	0.000	0.000

BCD4SPX1	1.000	0.000	0.000
BCD4SPX2	0.000	1.000	0.000
BCD4SPX3	0.000	0.000	1.000

	THETA				
	CBVLM2	CBVLM3	CBVLM4	CBVLM5	CAZTBL
CBVLM2	0.000				
CBVLM3	0.000	0.000			
CBVLM4	0.000	0.000	0.000		
CBVLM5	0.000	0.000	0.000	0.000	
CAZTBL	0.000	0.000	0.000	0.000	0.000
CEFVBL	0.000	0.000	0.000	0.000	0.000
SQRTCD4	0.000	0.000	0.000	0.000	0.000
LS0	0.000	0.000	0.000	0.000	0.000
LS1	0.000	0.000	0.000	0.000	0.000
LS2	0.000	0.000	0.000	0.000	0.000
CSEX	0.000	0.000	0.000	0.000	0.000
CAGE	0.000	0.000	0.000	0.000	0.000
BCD4SPX1	0.000	0.000	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

	THETA				
	CEFVBL	SQRTCD4	LS0	LS1	LS2
CEFVBL	0.000				
SQRTCD4	0.000	0.000			
LS0	0.000	0.000	0.000		
LS1	0.000	0.000	0.000	0.000	
LS2	0.000	0.000	0.000	0.000	0.000
CSEX	0.000	0.000	0.000	0.000	0.000
CAGE	0.000	0.000	0.000	0.000	0.000
BCD4SPX1	0.000	0.000	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

	THETA				
	CSEX	CAGE	BCD4SPX1	BCD4SPX2	BCD4SPX3
CSEX	0.000				
CAGE	0.000	0.000			
BCD4SPX1	0.000	0.000	0.000		
BCD4SPX2	0.000	0.000	0.000	0.000	
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

	ALPHA				
	S0	S1	S2	CBVLM2	CBVLM3
1	0.000	0.000	0.000	0.000	0.000

	ALPHA				
	CBVLM4	CBVLM5	CAZTBL	CEFVBL	SQRTCD4
1	0.000	0.000	0.000	0.000	0.000

ALPHA

	LS0	LS1	LS2	CSEX	CAGE
1	0.000	0.000	0.000	0.000	0.000

ALPHA

	BCD4SPX1	BCD4SPX2	BCD4SPX3
1	0.000	0.000	0.000

BETA

	S0	S1	S2	CBVLM2	CBVLM3
S0	0.000	0.000	0.000	0.000	0.000
S1	0.000	0.000	0.000	0.000	0.000
S2	0.000	0.000	0.000	0.000	0.000
CBVLM2	0.000	0.000	0.000	0.000	0.000
CBVLM3	0.000	0.000	0.000	0.000	0.000
CBVLM4	0.000	0.000	0.000	0.000	0.000
CBVLM5	0.000	0.000	0.000	0.000	0.000
CAZTBL	0.000	0.000	0.000	0.000	0.000
CEFVBL	0.000	0.000	0.000	0.000	0.000
SQRTCD4	0.000	0.000	0.000	0.000	0.000
LS0	0.000	0.000	0.000	0.000	0.000
LS1	0.000	0.000	0.000	0.000	0.000
LS2	0.000	0.000	0.000	0.000	0.000
CSEX	0.000	0.000	0.000	0.000	0.000
CAGE	0.000	0.000	0.000	0.000	0.000
BCD4SPX1	0.000	0.000	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

BETA

	CBVLM4	CBVLM5	CAZTBL	CEFVBL	SQRTCD4
S0	0.000	0.000	0.000	0.000	0.000
S1	0.000	0.000	0.000	0.000	0.000
S2	0.000	0.000	0.000	0.000	0.000
CBVLM2	0.000	0.000	0.000	0.000	0.000
CBVLM3	0.000	0.000	0.000	0.000	0.000
CBVLM4	0.000	0.000	0.000	0.000	0.000
CBVLM5	0.000	0.000	0.000	0.000	0.000
CAZTBL	0.000	0.000	0.000	0.000	0.000
CEFVBL	0.000	0.000	0.000	0.000	0.000
SQRTCD4	0.000	0.000	0.000	0.000	0.000
LS0	0.000	0.000	0.000	0.000	0.000
LS1	0.000	0.000	0.000	0.000	0.000
LS2	0.000	0.000	0.000	0.000	0.000
CSEX	0.000	0.000	0.000	0.000	0.000
CAGE	0.000	0.000	0.000	0.000	0.000
BCD4SPX1	0.000	0.000	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

BETA

	LS0	LS1	LS2	CSEX	CAGE
S0	0.000	0.000	0.000	0.000	0.000
S1	0.000	0.000	0.000	0.000	0.000
S2	0.000	0.000	0.000	0.000	0.000

CBVLM2	0.000	0.000	0.000	0.000	0.000
CBVLM3	0.000	0.000	0.000	0.000	0.000
CBVLM4	0.000	0.000	0.000	0.000	0.000
CBVLM5	0.000	0.000	0.000	0.000	0.000
CAZTBL	0.000	0.000	0.000	0.000	0.000
CEFVBL	0.000	0.000	0.000	0.000	0.000
SQRTCD4	0.000	0.000	0.000	0.000	0.000
LS0	0.000	0.000	0.000	0.000	0.000
LS1	0.000	0.000	0.000	0.000	0.000
LS2	0.000	0.000	0.000	0.000	0.000
CSEX	0.000	0.000	0.000	0.000	0.000
CAGE	0.000	0.000	0.000	0.000	0.000
BCD4SPX1	0.000	0.000	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

BETA

	BCD4SPX1	BCD4SPX2	BCD4SPX3
S0	0.000	0.000	0.000
S1	0.000	0.000	0.000
S2	0.000	0.000	0.000
CBVLM2	0.000	0.000	0.000
CBVLM3	0.000	0.000	0.000
CBVLM4	0.000	0.000	0.000
CBVLM5	0.000	0.000	0.000
CAZTBL	0.000	0.000	0.000
CEFVBL	0.000	0.000	0.000
SQRTCD4	0.000	0.000	0.000
LS0	0.000	0.000	0.000
LS1	0.000	0.000	0.000
LS2	0.000	0.000	0.000
CSEX	0.000	0.000	0.000
CAGE	0.000	0.000	0.000
BCD4SPX1	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000

PSI

	S0	S1	S2	CBVLM2	CBVLM3
S0	0.000				
S1	0.000	0.000			
S2	0.000	0.000	0.000		
CBVLM2	0.000	0.000	0.000	0.000	
CBVLM3	0.000	0.000	0.000	0.000	0.000
CBVLM4	0.000	0.000	0.000	0.000	0.000
CBVLM5	0.000	0.000	0.000	0.000	0.000
CAZTBL	0.000	0.000	0.000	0.000	0.000
CEFVBL	0.000	0.000	0.000	0.000	0.000
SQRTCD4	0.000	0.000	0.000	0.000	0.000
LS0	0.000	0.000	0.000	0.000	0.000
LS1	0.000	0.000	0.000	0.000	0.000
LS2	0.000	0.000	0.000	0.000	0.000
CSEX	0.000	0.000	0.000	0.000	0.000
CAGE	0.000	0.000	0.000	0.000	0.000
BCD4SPX1	0.000	0.000	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000	0.000	0.000



PSI					
	CBVLM4	CBVLM5	CAZTBL	CEFVBL	SQRTCD4
CBVLM4	0.000				
CBVLM5	0.000	0.000			
CAZTBL	0.000	0.000	0.000		
CEFVBL	0.000	0.000	0.000	0.000	
SQRTCD4	0.000	0.000	0.000	0.000	12.769
LS0	0.000	0.000	0.000	0.000	0.000
LS1	0.000	0.000	0.000	0.000	0.000
LS2	0.000	0.000	0.000	0.000	0.000
CSEX	0.000	0.000	0.000	0.000	0.000
CAGE	0.000	0.000	0.000	0.000	0.000
BCD4SPX1	0.000	0.000	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

PSI					
	LS0	LS1	LS2	CSEX	CAGE
LS0	0.148				
LS1	0.000	5.418			
LS2	0.000	0.000	25.065		
CSEX	0.000	0.000	0.000	0.000	
CAGE	0.000	0.000	0.000	0.000	0.000
BCD4SPX1	0.000	0.000	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

PSI			
	BCD4SPX1	BCD4SPX2	BCD4SPX3
BCD4SPX1	0.000		
BCD4SPX2	0.000	0.000	
BCD4SPX3	0.000	0.000	0.000

STARTING VALUES FOR NA BETWEEN

NU					
	CBVLM2	CBVLM3	CBVLM4	CBVLM5	CAZTBL
1	0.000	0.000	0.000	0.000	0.000

NU					
	CEFVBL	SQRTCD4	LS0	LS1	LS2
1	0.000	0.000	0.000	0.000	0.000

NU					
	CSEX	CAGE	BCD4SPX1	BCD4SPX2	BCD4SPX3
1	0.000	0.000	0.000	0.000	0.000

LAMBDA					
	S0	S1	S2	CBVLM2	CBVLM3

CBVLM2	0.000	0.000	0.000	1.000	0.000
CBVLM3	0.000	0.000	0.000	0.000	1.000
CBVLM4	0.000	0.000	0.000	0.000	0.000
CBVLM5	0.000	0.000	0.000	0.000	0.000
CAZTBL	0.000	0.000	0.000	0.000	0.000
CEFVBL	0.000	0.000	0.000	0.000	0.000
SQRTCD4	0.000	0.000	0.000	0.000	0.000
LS0	0.000	0.000	0.000	0.000	0.000
LS1	0.000	0.000	0.000	0.000	0.000
LS2	0.000	0.000	0.000	0.000	0.000
CSEX	0.000	0.000	0.000	0.000	0.000
CAGE	0.000	0.000	0.000	0.000	0.000
BCD4SPX1	0.000	0.000	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

LAMBDA

	CBVLM4	CBVLM5	CAZTBL	CEFVBL	SQRTCD4
CBVLM2	0.000	0.000	0.000	0.000	0.000
CBVLM3	0.000	0.000	0.000	0.000	0.000
CBVLM4	1.000	0.000	0.000	0.000	0.000
CBVLM5	0.000	1.000	0.000	0.000	0.000
CAZTBL	0.000	0.000	1.000	0.000	0.000
CEFVBL	0.000	0.000	0.000	1.000	0.000
SQRTCD4	0.000	0.000	0.000	0.000	1.000
LS0	0.000	0.000	0.000	0.000	0.000
LS1	0.000	0.000	0.000	0.000	0.000
LS2	0.000	0.000	0.000	0.000	0.000
CSEX	0.000	0.000	0.000	0.000	0.000
CAGE	0.000	0.000	0.000	0.000	0.000
BCD4SPX1	0.000	0.000	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

LAMBDA

	LS0	LS1	LS2	CSEX	CAGE
CBVLM2	0.000	0.000	0.000	0.000	0.000
CBVLM3	0.000	0.000	0.000	0.000	0.000
CBVLM4	0.000	0.000	0.000	0.000	0.000
CBVLM5	0.000	0.000	0.000	0.000	0.000
CAZTBL	0.000	0.000	0.000	0.000	0.000
CEFVBL	0.000	0.000	0.000	0.000	0.000
SQRTCD4	0.000	0.000	0.000	0.000	0.000
LS0	1.000	0.000	0.000	0.000	0.000
LS1	0.000	1.000	0.000	0.000	0.000
LS2	0.000	0.000	1.000	0.000	0.000
CSEX	0.000	0.000	0.000	1.000	0.000
CAGE	0.000	0.000	0.000	0.000	1.000
BCD4SPX1	0.000	0.000	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

LAMBDA

	BCD4SPX1	BCD4SPX2	BCD4SPX3
CBVLM2	0.000	0.000	0.000
CBVLM3	0.000	0.000	0.000
CBVLM4	0.000	0.000	0.000

CBVLM5	0.000	0.000	0.000
CAZTBL	0.000	0.000	0.000
CEFVBL	0.000	0.000	0.000
SQRTCD4	0.000	0.000	0.000
LS0	0.000	0.000	0.000
LS1	0.000	0.000	0.000
LS2	0.000	0.000	0.000
CSEX	0.000	0.000	0.000
CAGE	0.000	0.000	0.000
BCD4SPX1	1.000	0.000	0.000
BCD4SPX2	0.000	1.000	0.000
BCD4SPX3	0.000	0.000	1.000

THETA					
	CBVLM2	CBVLM3	CBVLM4	CBVLM5	CAZTBL
CBVLM2	0.000				
CBVLM3	0.000	0.000			
CBVLM4	0.000	0.000	0.000		
CBVLM5	0.000	0.000	0.000	0.000	
CAZTBL	0.000	0.000	0.000	0.000	0.000
CEFVBL	0.000	0.000	0.000	0.000	0.000
SQRTCD4	0.000	0.000	0.000	0.000	0.000
LS0	0.000	0.000	0.000	0.000	0.000
LS1	0.000	0.000	0.000	0.000	0.000
LS2	0.000	0.000	0.000	0.000	0.000
CSEX	0.000	0.000	0.000	0.000	0.000
CAGE	0.000	0.000	0.000	0.000	0.000
BCD4SPX1	0.000	0.000	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

THETA					
	CEFVBL	SQRTCD4	LS0	LS1	LS2
CEFVBL	0.000				
SQRTCD4	0.000	0.000			
LS0	0.000	0.000	0.000		
LS1	0.000	0.000	0.000	0.000	
LS2	0.000	0.000	0.000	0.000	0.000
CSEX	0.000	0.000	0.000	0.000	0.000
CAGE	0.000	0.000	0.000	0.000	0.000
BCD4SPX1	0.000	0.000	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

THETA					
	CSEX	CAGE	BCD4SPX1	BCD4SPX2	BCD4SPX3
CSEX	0.000				
CAGE	0.000	0.000			
BCD4SPX1	0.000	0.000	0.000		
BCD4SPX2	0.000	0.000	0.000	0.000	
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

ALPHA					
	S0	S1	S2	CBVLM2	CBVLM3
1	0.000	0.000	0.000	0.000	0.000

	ALPHA				
	CBVLM4	CBVLM5	CAZTBL	CEFVBL	SQRTCD4
	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
1	0.000	0.000	0.000	0.000	0.000

	ALPHA				
	LS0	LS1	LS2	CSEX	CAGE
	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
1	0.000	0.000	0.000	0.000	0.000

	ALPHA		
	BCD4SPX1	BCD4SPX2	BCD4SPX3
	<u>          </u>	<u>          </u>	<u>          </u>
1	0.000	0.000	0.000

	BETA				
	S0	S1	S2	CBVLM2	CBVLM3
	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
S0	0.000	0.000	0.000	0.000	0.000
S1	0.000	0.000	0.000	0.000	0.000
S2	0.000	0.000	0.000	0.000	0.000
CBVLM2	0.000	0.000	0.000	0.000	0.000
CBVLM3	0.000	0.000	0.000	0.000	0.000
CBVLM4	0.000	0.000	0.000	0.000	0.000
CBVLM5	0.000	0.000	0.000	0.000	0.000
CAZTBL	0.000	0.000	0.000	0.000	0.000
CEFVBL	0.000	0.000	0.000	0.000	0.000
SQRTCD4	0.000	0.000	0.000	0.000	0.000
LS0	0.000	0.000	0.000	0.000	0.000
LS1	0.000	0.000	0.000	0.000	0.000
LS2	0.000	0.000	0.000	0.000	0.000
CSEX	0.000	0.000	0.000	0.000	0.000
CAGE	0.000	0.000	0.000	0.000	0.000
BCD4SPX1	0.000	0.000	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

	BETA				
	CBVLM4	CBVLM5	CAZTBL	CEFVBL	SQRTCD4
	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
S0	0.000	0.000	0.000	0.000	0.000
S1	0.000	0.000	0.000	0.000	0.000
S2	0.000	0.000	0.000	0.000	0.000
CBVLM2	0.000	0.000	0.000	0.000	0.000
CBVLM3	0.000	0.000	0.000	0.000	0.000
CBVLM4	0.000	0.000	0.000	0.000	0.000
CBVLM5	0.000	0.000	0.000	0.000	0.000
CAZTBL	0.000	0.000	0.000	0.000	0.000
CEFVBL	0.000	0.000	0.000	0.000	0.000
SQRTCD4	0.000	0.000	0.000	0.000	0.000
LS0	0.000	0.000	0.000	0.000	0.000
LS1	0.000	0.000	0.000	0.000	0.000
LS2	0.000	0.000	0.000	0.000	0.000
CSEX	0.000	0.000	0.000	0.000	0.000
CAGE	0.000	0.000	0.000	0.000	0.000
BCD4SPX1	0.000	0.000	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000	0.000	0.000

BCD4SPX3	0.000	0.000	0.000	0.000	0.000
BETA					
	LS0	LS1	LS2	CSEX	CAGE
S0	0.000	0.000	0.000	0.000	0.000
S1	0.000	0.000	0.000	0.000	0.000
S2	0.000	0.000	0.000	0.000	0.000
CBVLM2	0.000	0.000	0.000	0.000	0.000
CBVLM3	0.000	0.000	0.000	0.000	0.000
CBVLM4	0.000	0.000	0.000	0.000	0.000
CBVLM5	0.000	0.000	0.000	0.000	0.000
CAZTBL	0.000	0.000	0.000	0.000	0.000
CEFVBL	0.000	0.000	0.000	0.000	0.000
SQRTCD4	0.000	0.000	0.000	0.000	0.000
LS0	0.000	0.000	0.000	0.000	0.000
LS1	0.000	0.000	0.000	0.000	0.000
LS2	0.000	0.000	0.000	0.000	0.000
CSEX	0.000	0.000	0.000	0.000	0.000
CAGE	0.000	0.000	0.000	0.000	0.000
BCD4SPX1	0.000	0.000	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

BETA			
	BCD4SPX1	BCD4SPX2	BCD4SPX3
S0	0.000	0.000	0.000
S1	0.000	0.000	0.000
S2	0.000	0.000	0.000
CBVLM2	0.000	0.000	0.000
CBVLM3	0.000	0.000	0.000
CBVLM4	0.000	0.000	0.000
CBVLM5	0.000	0.000	0.000
CAZTBL	0.000	0.000	0.000
CEFVBL	0.000	0.000	0.000
SQRTCD4	0.000	0.000	0.000
LS0	0.000	0.000	0.000
LS1	0.000	0.000	0.000
LS2	0.000	0.000	0.000
CSEX	0.000	0.000	0.000
CAGE	0.000	0.000	0.000
BCD4SPX1	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000

PSI					
	S0	S1	S2	CBVLM2	CBVLM3
S0	1.000				
S1	0.000	1.000			
S2	0.000	0.000	1.000		
CBVLM2	0.000	0.000	0.000	0.069	
CBVLM3	0.000	0.000	0.000	0.000	0.105
CBVLM4	0.000	0.000	0.000	0.000	0.000
CBVLM5	0.000	0.000	0.000	0.000	0.000
CAZTBL	0.000	0.000	0.000	0.000	0.000
CEFVBL	0.000	0.000	0.000	0.000	0.000
SQRTCD4	0.000	0.000	0.000	0.000	0.000
LS0	0.000	0.000	0.000	0.000	0.000

LS1	0.000	0.000	0.000	0.000	0.000
LS2	0.000	0.000	0.000	0.000	0.000
CSEX	0.000	0.000	0.000	0.000	0.000
CAGE	0.000	0.000	0.000	0.000	0.000
BCD4SPX1	0.000	0.000	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

PSI

	<u>CBVLM4</u>	<u>CBVLM5</u>	<u>CAZTBL</u>	<u>CEFVBL</u>	<u>SQRTCD4</u>
CBVLM4	0.096				
CBVLM5	0.000	0.078			
CAZTBL	0.000	0.000	0.121		
CEFVBL	0.000	0.000	0.000	0.066	
SQRTCD4	0.000	0.000	0.000	0.000	12.769
LS0	0.000	0.000	0.000	0.000	0.000
LS1	0.000	0.000	0.000	0.000	0.000
LS2	0.000	0.000	0.000	0.000	0.000
CSEX	0.000	0.000	0.000	0.000	0.000
CAGE	0.000	0.000	0.000	0.000	0.000
BCD4SPX1	0.000	0.000	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

PSI

	<u>LS0</u>	<u>LS1</u>	<u>LS2</u>	<u>CSEX</u>	<u>CAGE</u>
LS0	0.000				
LS1	0.000	0.000			
LS2	0.000	0.000	0.000		
CSEX	0.000	0.000	0.000	0.075	
CAGE	0.000	0.000	0.000	0.000	47.314
BCD4SPX1	0.000	0.000	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

PSI

	<u>BCD4SPX1</u>	<u>BCD4SPX2</u>	<u>BCD4SPX3</u>
BCD4SPX1	5308.340		
BCD4SPX2	0.000	4598.894	
BCD4SPX3	0.000	0.000	592.398

STARTING VALUES FOR WA WITHIN

NU

	<u>CBVLM2</u>	<u>CBVLM3</u>	<u>CBVLM4</u>	<u>CBVLM5</u>	<u>CAZTBL</u>
1	0.000	0.000	0.000	0.000	0.000

NU

	<u>CEFVBL</u>	<u>SQRTCD4</u>	<u>LS0</u>	<u>LS1</u>	<u>LS2</u>
1	0.000	0.000	0.000	0.000	0.000

NU					
	CSEX	CAGE	BCD4SPX1	BCD4SPX2	BCD4SPX3
1	0.000	0.000	0.000	0.000	0.000

LAMBDA					
	S0	S1	S2	CBVLM2	CBVLM3
CBVLM2	0.000	0.000	0.000	1.000	0.000
CBVLM3	0.000	0.000	0.000	0.000	1.000
CBVLM4	0.000	0.000	0.000	0.000	0.000
CBVLM5	0.000	0.000	0.000	0.000	0.000
CAZTBL	0.000	0.000	0.000	0.000	0.000
CEFVBL	0.000	0.000	0.000	0.000	0.000
SQRTCD4	0.000	0.000	0.000	0.000	0.000
LS0	0.000	0.000	0.000	0.000	0.000
LS1	0.000	0.000	0.000	0.000	0.000
LS2	0.000	0.000	0.000	0.000	0.000
CSEX	0.000	0.000	0.000	0.000	0.000
CAGE	0.000	0.000	0.000	0.000	0.000
BCD4SPX1	0.000	0.000	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

LAMBDA					
	CBVLM4	CBVLM5	CAZTBL	CEFVBL	SQRTCD4
CBVLM2	0.000	0.000	0.000	0.000	0.000
CBVLM3	0.000	0.000	0.000	0.000	0.000
CBVLM4	1.000	0.000	0.000	0.000	0.000
CBVLM5	0.000	1.000	0.000	0.000	0.000
CAZTBL	0.000	0.000	1.000	0.000	0.000
CEFVBL	0.000	0.000	0.000	1.000	0.000
SQRTCD4	0.000	0.000	0.000	0.000	1.000
LS0	0.000	0.000	0.000	0.000	0.000
LS1	0.000	0.000	0.000	0.000	0.000
LS2	0.000	0.000	0.000	0.000	0.000
CSEX	0.000	0.000	0.000	0.000	0.000
CAGE	0.000	0.000	0.000	0.000	0.000
BCD4SPX1	0.000	0.000	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

LAMBDA					
	LS0	LS1	LS2	CSEX	CAGE
CBVLM2	0.000	0.000	0.000	0.000	0.000
CBVLM3	0.000	0.000	0.000	0.000	0.000
CBVLM4	0.000	0.000	0.000	0.000	0.000
CBVLM5	0.000	0.000	0.000	0.000	0.000
CAZTBL	0.000	0.000	0.000	0.000	0.000
CEFVBL	0.000	0.000	0.000	0.000	0.000
SQRTCD4	0.000	0.000	0.000	0.000	0.000
LS0	1.000	0.000	0.000	0.000	0.000
LS1	0.000	1.000	0.000	0.000	0.000
LS2	0.000	0.000	1.000	0.000	0.000
CSEX	0.000	0.000	0.000	1.000	0.000
CAGE	0.000	0.000	0.000	0.000	1.000
BCD4SPX1	0.000	0.000	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000	0.000	0.000

BCD4SPX3	0.000	0.000	0.000	0.000	0.000
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LAMBDA

	BCD4SPX1	BCD4SPX2	BCD4SPX3
CBVLM2	0.000	0.000	0.000
CBVLM3	0.000	0.000	0.000
CBVLM4	0.000	0.000	0.000
CBVLM5	0.000	0.000	0.000
CAZTBL	0.000	0.000	0.000
CEFVBL	0.000	0.000	0.000
SQRTCD4	0.000	0.000	0.000
LS0	0.000	0.000	0.000
LS1	0.000	0.000	0.000
LS2	0.000	0.000	0.000
CSEX	0.000	0.000	0.000
CAGE	0.000	0.000	0.000
BCD4SPX1	1.000	0.000	0.000
BCD4SPX2	0.000	1.000	0.000
BCD4SPX3	0.000	0.000	1.000

THETA

	CBVLM2	CBVLM3	CBVLM4	CBVLM5	CAZTBL
CBVLM2	0.000				
CBVLM3	0.000	0.000			
CBVLM4	0.000	0.000	0.000		
CBVLM5	0.000	0.000	0.000	0.000	
CAZTBL	0.000	0.000	0.000	0.000	0.000
CEFVBL	0.000	0.000	0.000	0.000	0.000
SQRTCD4	0.000	0.000	0.000	0.000	0.000
LS0	0.000	0.000	0.000	0.000	0.000
LS1	0.000	0.000	0.000	0.000	0.000
LS2	0.000	0.000	0.000	0.000	0.000
CSEX	0.000	0.000	0.000	0.000	0.000
CAGE	0.000	0.000	0.000	0.000	0.000
BCD4SPX1	0.000	0.000	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

THETA

	CEFVBL	SQRTCD4	LS0	LS1	LS2
CEFVBL	0.000				
SQRTCD4	0.000	0.000			
LS0	0.000	0.000	0.000		
LS1	0.000	0.000	0.000	0.000	
LS2	0.000	0.000	0.000	0.000	0.000
CSEX	0.000	0.000	0.000	0.000	0.000
CAGE	0.000	0.000	0.000	0.000	0.000
BCD4SPX1	0.000	0.000	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

THETA

	CSEX	CAGE	BCD4SPX1	BCD4SPX2	BCD4SPX3
CSEX	0.000				
CAGE	0.000	0.000			



BCD4SPX1	0.000	0.000	0.000		
BCD4SPX2	0.000	0.000	0.000	0.000	
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

ALPHA					
	S0	S1	S2	CBVLM2	CBVLM3
1	0.000	0.000	0.000	0.000	0.000

ALPHA					
	CBVLM4	CBVLM5	CAZTBL	CEFVBL	SQRTCD4
1	0.000	0.000	0.000	0.000	0.000

ALPHA					
	LS0	LS1	LS2	CSEX	CAGE
1	0.000	0.000	0.000	0.000	0.000

ALPHA					
	BCD4SPX1	BCD4SPX2	BCD4SPX3		
1	0.000	0.000	0.000		

BETA					
	S0	S1	S2	CBVLM2	CBVLM3
S0	0.000	0.000	0.000	0.000	0.000
S1	0.000	0.000	0.000	0.000	0.000
S2	0.000	0.000	0.000	0.000	0.000
CBVLM2	0.000	0.000	0.000	0.000	0.000
CBVLM3	0.000	0.000	0.000	0.000	0.000
CBVLM4	0.000	0.000	0.000	0.000	0.000
CBVLM5	0.000	0.000	0.000	0.000	0.000
CAZTBL	0.000	0.000	0.000	0.000	0.000
CEFVBL	0.000	0.000	0.000	0.000	0.000
SQRTCD4	0.000	0.000	0.000	0.000	0.000
LS0	0.000	0.000	0.000	0.000	0.000
LS1	0.000	0.000	0.000	0.000	0.000
LS2	0.000	0.000	0.000	0.000	0.000
CSEX	0.000	0.000	0.000	0.000	0.000
CAGE	0.000	0.000	0.000	0.000	0.000
BCD4SPX1	0.000	0.000	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

BETA					
	CBVLM4	CBVLM5	CAZTBL	CEFVBL	SQRTCD4
S0	0.000	0.000	0.000	0.000	0.000
S1	0.000	0.000	0.000	0.000	0.000
S2	0.000	0.000	0.000	0.000	0.000
CBVLM2	0.000	0.000	0.000	0.000	0.000
CBVLM3	0.000	0.000	0.000	0.000	0.000
CBVLM4	0.000	0.000	0.000	0.000	0.000
CBVLM5	0.000	0.000	0.000	0.000	0.000
CAZTBL	0.000	0.000	0.000	0.000	0.000

CEFVBL	0.000	0.000	0.000	0.000	0.000
SQRTCD4	0.000	0.000	0.000	0.000	0.000
LS0	0.000	0.000	0.000	0.000	0.000
LS1	0.000	0.000	0.000	0.000	0.000
LS2	0.000	0.000	0.000	0.000	0.000
CSEX	0.000	0.000	0.000	0.000	0.000
CAGE	0.000	0.000	0.000	0.000	0.000
BCD4SPX1	0.000	0.000	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

BETA					
	LS0	LS1	LS2	CSEX	CAGE
S0	0.000	0.000	0.000	0.000	0.000
S1	0.000	0.000	0.000	0.000	0.000
S2	0.000	0.000	0.000	0.000	0.000
CBVLM2	0.000	0.000	0.000	0.000	0.000
CBVLM3	0.000	0.000	0.000	0.000	0.000
CBVLM4	0.000	0.000	0.000	0.000	0.000
CBVLM5	0.000	0.000	0.000	0.000	0.000
CAZTBL	0.000	0.000	0.000	0.000	0.000
CEFVBL	0.000	0.000	0.000	0.000	0.000
SQRTCD4	0.000	0.000	0.000	0.000	0.000
LS0	0.000	0.000	0.000	0.000	0.000
LS1	0.000	0.000	0.000	0.000	0.000
LS2	0.000	0.000	0.000	0.000	0.000
CSEX	0.000	0.000	0.000	0.000	0.000
CAGE	0.000	0.000	0.000	0.000	0.000
BCD4SPX1	0.000	0.000	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

BETA			
	BCD4SPX1	BCD4SPX2	BCD4SPX3
S0	0.000	0.000	0.000
S1	0.000	0.000	0.000
S2	0.000	0.000	0.000
CBVLM2	0.000	0.000	0.000
CBVLM3	0.000	0.000	0.000
CBVLM4	0.000	0.000	0.000
CBVLM5	0.000	0.000	0.000
CAZTBL	0.000	0.000	0.000
CEFVBL	0.000	0.000	0.000
SQRTCD4	0.000	0.000	0.000
LS0	0.000	0.000	0.000
LS1	0.000	0.000	0.000
LS2	0.000	0.000	0.000
CSEX	0.000	0.000	0.000
CAGE	0.000	0.000	0.000
BCD4SPX1	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000

PSI					
	S0	S1	S2	CBVLM2	CBVLM3
S0	0.000				
S1	0.000	0.000			

S2	0.000	0.000	0.000		
CBVLM2	0.000	0.000	0.000	0.000	
CBVLM3	0.000	0.000	0.000	0.000	0.000
CBVLM4	0.000	0.000	0.000	0.000	0.000
CBVLM5	0.000	0.000	0.000	0.000	0.000
CAZTBL	0.000	0.000	0.000	0.000	0.000
CEFVBL	0.000	0.000	0.000	0.000	0.000
SQRTCD4	0.000	0.000	0.000	0.000	0.000
LS0	0.000	0.000	0.000	0.000	0.000
LS1	0.000	0.000	0.000	0.000	0.000
LS2	0.000	0.000	0.000	0.000	0.000
CSEX	0.000	0.000	0.000	0.000	0.000
CAGE	0.000	0.000	0.000	0.000	0.000
BCD4SPX1	0.000	0.000	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

PSI

	<u>CBVLM4</u>	<u>CBVLM5</u>	<u>CAZTBL</u>	<u>CEFVBL</u>	<u>SQRTCD4</u>
CBVLM4	0.000				
CBVLM5	0.000	0.000			
CAZTBL	0.000	0.000	0.000		
CEFVBL	0.000	0.000	0.000	0.000	
SQRTCD4	0.000	0.000	0.000	0.000	12.769
LS0	0.000	0.000	0.000	0.000	0.000
LS1	0.000	0.000	0.000	0.000	0.000
LS2	0.000	0.000	0.000	0.000	0.000
CSEX	0.000	0.000	0.000	0.000	0.000
CAGE	0.000	0.000	0.000	0.000	0.000
BCD4SPX1	0.000	0.000	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

PSI

	<u>LS0</u>	<u>LS1</u>	<u>LS2</u>	<u>CSEX</u>	<u>CAGE</u>
LS0	0.148				
LS1	0.000	5.418			
LS2	0.000	0.000	25.065		
CSEX	0.000	0.000	0.000	0.000	
CAGE	0.000	0.000	0.000	0.000	0.000
BCD4SPX1	0.000	0.000	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

PSI

	<u>BCD4SPX1</u>	<u>BCD4SPX2</u>	<u>BCD4SPX3</u>
BCD4SPX1	0.000		
BCD4SPX2	0.000	0.000	
BCD4SPX3	0.000	0.000	0.000

STARTING VALUES FOR WA BETWEEN

NU

	<u>CBVLM2</u>	<u>CBVLM3</u>	<u>CBVLM4</u>	<u>CBVLM5</u>	<u>CAZTBL</u>
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1	0.000	0.000	0.000	0.000	0.000
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NU

	CEFVBL	SQRTCD4	LS0	LS1	LS2
1	0.000	0.000	0.000	0.000	0.000

NU

	CSEX	CAGE	BCD4SPX1	BCD4SPX2	BCD4SPX3
1	0.000	0.000	0.000	0.000	0.000

LAMBDA

	S0	S1	S2	CBVLM2	CBVLM3
CBVLM2	0.000	0.000	0.000	1.000	0.000
CBVLM3	0.000	0.000	0.000	0.000	1.000
CBVLM4	0.000	0.000	0.000	0.000	0.000
CBVLM5	0.000	0.000	0.000	0.000	0.000
CAZTBL	0.000	0.000	0.000	0.000	0.000
CEFVBL	0.000	0.000	0.000	0.000	0.000
SQRTCD4	0.000	0.000	0.000	0.000	0.000
LS0	0.000	0.000	0.000	0.000	0.000
LS1	0.000	0.000	0.000	0.000	0.000
LS2	0.000	0.000	0.000	0.000	0.000
CSEX	0.000	0.000	0.000	0.000	0.000
CAGE	0.000	0.000	0.000	0.000	0.000
BCD4SPX1	0.000	0.000	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

LAMBDA

	CBVLM4	CBVLM5	CAZTBL	CEFVBL	SQRTCD4
CBVLM2	0.000	0.000	0.000	0.000	0.000
CBVLM3	0.000	0.000	0.000	0.000	0.000
CBVLM4	1.000	0.000	0.000	0.000	0.000
CBVLM5	0.000	1.000	0.000	0.000	0.000
CAZTBL	0.000	0.000	1.000	0.000	0.000
CEFVBL	0.000	0.000	0.000	1.000	0.000
SQRTCD4	0.000	0.000	0.000	0.000	1.000
LS0	0.000	0.000	0.000	0.000	0.000
LS1	0.000	0.000	0.000	0.000	0.000
LS2	0.000	0.000	0.000	0.000	0.000
CSEX	0.000	0.000	0.000	0.000	0.000
CAGE	0.000	0.000	0.000	0.000	0.000
BCD4SPX1	0.000	0.000	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

LAMBDA

	LS0	LS1	LS2	CSEX	CAGE
CBVLM2	0.000	0.000	0.000	0.000	0.000
CBVLM3	0.000	0.000	0.000	0.000	0.000
CBVLM4	0.000	0.000	0.000	0.000	0.000
CBVLM5	0.000	0.000	0.000	0.000	0.000
CAZTBL	0.000	0.000	0.000	0.000	0.000

CEFVBL	0.000	0.000	0.000	0.000	0.000
SQRTCD4	0.000	0.000	0.000	0.000	0.000
LS0	1.000	0.000	0.000	0.000	0.000
LS1	0.000	1.000	0.000	0.000	0.000
LS2	0.000	0.000	1.000	0.000	0.000
CSEX	0.000	0.000	0.000	1.000	0.000
CAGE	0.000	0.000	0.000	0.000	1.000
BCD4SPX1	0.000	0.000	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

LAMBDA

	BCD4SPX1	BCD4SPX2	BCD4SPX3
CBVLM2	0.000	0.000	0.000
CBVLM3	0.000	0.000	0.000
CBVLM4	0.000	0.000	0.000
CBVLM5	0.000	0.000	0.000
CAZTBL	0.000	0.000	0.000
CEFVBL	0.000	0.000	0.000
SQRTCD4	0.000	0.000	0.000
LS0	0.000	0.000	0.000
LS1	0.000	0.000	0.000
LS2	0.000	0.000	0.000
CSEX	0.000	0.000	0.000
CAGE	0.000	0.000	0.000
BCD4SPX1	1.000	0.000	0.000
BCD4SPX2	0.000	1.000	0.000
BCD4SPX3	0.000	0.000	1.000

THETA

	CBVLM2	CBVLM3	CBVLM4	CBVLM5	CAZTBL
CBVLM2	0.000				
CBVLM3	0.000	0.000			
CBVLM4	0.000	0.000	0.000		
CBVLM5	0.000	0.000	0.000	0.000	
CAZTBL	0.000	0.000	0.000	0.000	0.000
CEFVBL	0.000	0.000	0.000	0.000	0.000
SQRTCD4	0.000	0.000	0.000	0.000	0.000
LS0	0.000	0.000	0.000	0.000	0.000
LS1	0.000	0.000	0.000	0.000	0.000
LS2	0.000	0.000	0.000	0.000	0.000
CSEX	0.000	0.000	0.000	0.000	0.000
CAGE	0.000	0.000	0.000	0.000	0.000
BCD4SPX1	0.000	0.000	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

THETA

	CEFVBL	SQRTCD4	LS0	LS1	LS2
CEFVBL	0.000				
SQRTCD4	0.000	0.000			
LS0	0.000	0.000	0.000		
LS1	0.000	0.000	0.000	0.000	
LS2	0.000	0.000	0.000	0.000	0.000
CSEX	0.000	0.000	0.000	0.000	0.000
CAGE	0.000	0.000	0.000	0.000	0.000
BCD4SPX1	0.000	0.000	0.000	0.000	0.000

BCD4SPX2	0.000	0.000	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

THETA					
	CSEX	CAGE	BCD4SPX1	BCD4SPX2	BCD4SPX3
CSEX	0.000				
CAGE	0.000	0.000			
BCD4SPX1	0.000	0.000	0.000		
BCD4SPX2	0.000	0.000	0.000	0.000	
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

ALPHA					
	S0	S1	S2	CBVLM2	CBVLM3
1	0.000	0.000	0.000	0.000	0.000

ALPHA					
	CBVLM4	CBVLM5	CAZTBL	CEFVBL	SQRTCD4
1	0.000	0.000	0.000	0.000	0.000

ALPHA					
	LS0	LS1	LS2	CSEX	CAGE
1	0.000	0.000	0.000	0.000	0.000

ALPHA					
	BCD4SPX1	BCD4SPX2	BCD4SPX3		
1	0.000	0.000	0.000		

BETA					
	S0	S1	S2	CBVLM2	CBVLM3
S0	0.000	0.000	0.000	0.000	0.000
S1	0.000	0.000	0.000	0.000	0.000
S2	0.000	0.000	0.000	0.000	0.000
CBVLM2	0.000	0.000	0.000	0.000	0.000
CBVLM3	0.000	0.000	0.000	0.000	0.000
CBVLM4	0.000	0.000	0.000	0.000	0.000
CBVLM5	0.000	0.000	0.000	0.000	0.000
CAZTBL	0.000	0.000	0.000	0.000	0.000
CEFVBL	0.000	0.000	0.000	0.000	0.000
SQRTCD4	0.000	0.000	0.000	0.000	0.000
LS0	0.000	0.000	0.000	0.000	0.000
LS1	0.000	0.000	0.000	0.000	0.000
LS2	0.000	0.000	0.000	0.000	0.000
CSEX	0.000	0.000	0.000	0.000	0.000
CAGE	0.000	0.000	0.000	0.000	0.000
BCD4SPX1	0.000	0.000	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

BETA					
	CBVLM4	CBVLM5	CAZTBL	CEFVBL	SQRTCD4

S0	0.000	0.000	0.000	0.000	0.000
S1	0.000	0.000	0.000	0.000	0.000
S2	0.000	0.000	0.000	0.000	0.000
CBVLM2	0.000	0.000	0.000	0.000	0.000
CBVLM3	0.000	0.000	0.000	0.000	0.000
CBVLM4	0.000	0.000	0.000	0.000	0.000
CBVLM5	0.000	0.000	0.000	0.000	0.000
CAZTBL	0.000	0.000	0.000	0.000	0.000
CEFVBL	0.000	0.000	0.000	0.000	0.000
SQRTCD4	0.000	0.000	0.000	0.000	0.000
LS0	0.000	0.000	0.000	0.000	0.000
LS1	0.000	0.000	0.000	0.000	0.000
LS2	0.000	0.000	0.000	0.000	0.000
CSEX	0.000	0.000	0.000	0.000	0.000
CAGE	0.000	0.000	0.000	0.000	0.000
BCD4SPX1	0.000	0.000	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

BETA

	LS0	LS1	LS2	CSEX	CAGE
S0	0.000	0.000	0.000	0.000	0.000
S1	0.000	0.000	0.000	0.000	0.000
S2	0.000	0.000	0.000	0.000	0.000
CBVLM2	0.000	0.000	0.000	0.000	0.000
CBVLM3	0.000	0.000	0.000	0.000	0.000
CBVLM4	0.000	0.000	0.000	0.000	0.000
CBVLM5	0.000	0.000	0.000	0.000	0.000
CAZTBL	0.000	0.000	0.000	0.000	0.000
CEFVBL	0.000	0.000	0.000	0.000	0.000
SQRTCD4	0.000	0.000	0.000	0.000	0.000
LS0	0.000	0.000	0.000	0.000	0.000
LS1	0.000	0.000	0.000	0.000	0.000
LS2	0.000	0.000	0.000	0.000	0.000
CSEX	0.000	0.000	0.000	0.000	0.000
CAGE	0.000	0.000	0.000	0.000	0.000
BCD4SPX1	0.000	0.000	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

BETA

	BCD4SPX1	BCD4SPX2	BCD4SPX3
S0	0.000	0.000	0.000
S1	0.000	0.000	0.000
S2	0.000	0.000	0.000
CBVLM2	0.000	0.000	0.000
CBVLM3	0.000	0.000	0.000
CBVLM4	0.000	0.000	0.000
CBVLM5	0.000	0.000	0.000
CAZTBL	0.000	0.000	0.000
CEFVBL	0.000	0.000	0.000
SQRTCD4	0.000	0.000	0.000
LS0	0.000	0.000	0.000
LS1	0.000	0.000	0.000
LS2	0.000	0.000	0.000
CSEX	0.000	0.000	0.000
CAGE	0.000	0.000	0.000
BCD4SPX1	0.000	0.000	0.000

	PSI				
	S0	S1	S2	CBVLM2	CBVLM3
BCD4SPX2	0.000	0.000	0.000		
BCD4SPX3	0.000	0.000	0.000		
S0	1.000				
S1	0.000	1.000			
S2	0.000	0.000	1.000		
CBVLM2	0.000	0.000	0.000	0.069	
CBVLM3	0.000	0.000	0.000	0.000	0.105
CBVLM4	0.000	0.000	0.000	0.000	0.000
CBVLM5	0.000	0.000	0.000	0.000	0.000
CAZTBL	0.000	0.000	0.000	0.000	0.000
CEFVBL	0.000	0.000	0.000	0.000	0.000
SQRTCD4	0.000	0.000	0.000	0.000	0.000
LS0	0.000	0.000	0.000	0.000	0.000
LS1	0.000	0.000	0.000	0.000	0.000
LS2	0.000	0.000	0.000	0.000	0.000
CSEX	0.000	0.000	0.000	0.000	0.000
CAGE	0.000	0.000	0.000	0.000	0.000
BCD4SPX1	0.000	0.000	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

	PSI				
	CBVLM4	CBVLM5	CAZTBL	CEFVBL	SQRTCD4
CBVLM4	0.096				
CBVLM5	0.000	0.078			
CAZTBL	0.000	0.000	0.121		
CEFVBL	0.000	0.000	0.000	0.066	
SQRTCD4	0.000	0.000	0.000	0.000	12.769
LS0	0.000	0.000	0.000	0.000	0.000
LS1	0.000	0.000	0.000	0.000	0.000
LS2	0.000	0.000	0.000	0.000	0.000
CSEX	0.000	0.000	0.000	0.000	0.000
CAGE	0.000	0.000	0.000	0.000	0.000
BCD4SPX1	0.000	0.000	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

	PSI				
	LS0	LS1	LS2	CSEX	CAGE
LS0	0.000				
LS1	0.000	0.000			
LS2	0.000	0.000	0.000		
CSEX	0.000	0.000	0.000	0.075	
CAGE	0.000	0.000	0.000	0.000	47.314
BCD4SPX1	0.000	0.000	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

	PSI		
	BCD4SPX1	BCD4SPX2	BCD4SPX3
BCD4SPX1	5308.340		
BCD4SPX2	0.000	4598.894	



BCD4SPX3      0.000      0.000      592.398

STARTING VALUES FOR EA WITHIN

	NU	CBVLM2	CBVLM3	CBVLM4	CBVLM5	CAZTBL
1		0.000	0.000	0.000	0.000	0.000

	NU	CEFVBL	SQRTCD4	LS0	LS1	LS2
1		0.000	0.000	0.000	0.000	0.000

	NU	CSEX	CAGE	BCD4SPX1	BCD4SPX2	BCD4SPX3
1		0.000	0.000	0.000	0.000	0.000

	LAMBDA	S0	S1	S2	CBVLM2	CBVLM3
CBVLM2		0.000	0.000	0.000	1.000	0.000
CBVLM3		0.000	0.000	0.000	0.000	1.000
CBVLM4		0.000	0.000	0.000	0.000	0.000
CBVLM5		0.000	0.000	0.000	0.000	0.000
CAZTBL		0.000	0.000	0.000	0.000	0.000
CEFVBL		0.000	0.000	0.000	0.000	0.000
SQRTCD4		0.000	0.000	0.000	0.000	0.000
LS0		0.000	0.000	0.000	0.000	0.000
LS1		0.000	0.000	0.000	0.000	0.000
LS2		0.000	0.000	0.000	0.000	0.000
CSEX		0.000	0.000	0.000	0.000	0.000
CAGE		0.000	0.000	0.000	0.000	0.000
BCD4SPX1		0.000	0.000	0.000	0.000	0.000
BCD4SPX2		0.000	0.000	0.000	0.000	0.000
BCD4SPX3		0.000	0.000	0.000	0.000	0.000

	LAMBDA	CBVLM4	CBVLM5	CAZTBL	CEFVBL	SQRTCD4
CBVLM2		0.000	0.000	0.000	0.000	0.000
CBVLM3		0.000	0.000	0.000	0.000	0.000
CBVLM4		1.000	0.000	0.000	0.000	0.000
CBVLM5		0.000	1.000	0.000	0.000	0.000
CAZTBL		0.000	0.000	1.000	0.000	0.000
CEFVBL		0.000	0.000	0.000	1.000	0.000
SQRTCD4		0.000	0.000	0.000	0.000	1.000
LS0		0.000	0.000	0.000	0.000	0.000
LS1		0.000	0.000	0.000	0.000	0.000
LS2		0.000	0.000	0.000	0.000	0.000
CSEX		0.000	0.000	0.000	0.000	0.000
CAGE		0.000	0.000	0.000	0.000	0.000
BCD4SPX1		0.000	0.000	0.000	0.000	0.000
BCD4SPX2		0.000	0.000	0.000	0.000	0.000
BCD4SPX3		0.000	0.000	0.000	0.000	0.000

LAMBDA					
	LS0	LS1	LS2	CSEX	CAGE
CBVLM2	0.000	0.000	0.000	0.000	0.000
CBVLM3	0.000	0.000	0.000	0.000	0.000
CBVLM4	0.000	0.000	0.000	0.000	0.000
CBVLM5	0.000	0.000	0.000	0.000	0.000
CAZTBL	0.000	0.000	0.000	0.000	0.000
CEFVBL	0.000	0.000	0.000	0.000	0.000
SQRTCD4	0.000	0.000	0.000	0.000	0.000
LS0	1.000	0.000	0.000	0.000	0.000
LS1	0.000	1.000	0.000	0.000	0.000
LS2	0.000	0.000	1.000	0.000	0.000
CSEX	0.000	0.000	0.000	1.000	0.000
CAGE	0.000	0.000	0.000	0.000	1.000
BCD4SPX1	0.000	0.000	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

LAMBDA			
	BCD4SPX1	BCD4SPX2	BCD4SPX3
CBVLM2	0.000	0.000	0.000
CBVLM3	0.000	0.000	0.000
CBVLM4	0.000	0.000	0.000
CBVLM5	0.000	0.000	0.000
CAZTBL	0.000	0.000	0.000
CEFVBL	0.000	0.000	0.000
SQRTCD4	0.000	0.000	0.000
LS0	0.000	0.000	0.000
LS1	0.000	0.000	0.000
LS2	0.000	0.000	0.000
CSEX	0.000	0.000	0.000
CAGE	0.000	0.000	0.000
BCD4SPX1	1.000	0.000	0.000
BCD4SPX2	0.000	1.000	0.000
BCD4SPX3	0.000	0.000	1.000

THETA					
	CBVLM2	CBVLM3	CBVLM4	CBVLM5	CAZTBL
CBVLM2	0.000				
CBVLM3	0.000	0.000			
CBVLM4	0.000	0.000	0.000		
CBVLM5	0.000	0.000	0.000	0.000	
CAZTBL	0.000	0.000	0.000	0.000	0.000
CEFVBL	0.000	0.000	0.000	0.000	0.000
SQRTCD4	0.000	0.000	0.000	0.000	0.000
LS0	0.000	0.000	0.000	0.000	0.000
LS1	0.000	0.000	0.000	0.000	0.000
LS2	0.000	0.000	0.000	0.000	0.000
CSEX	0.000	0.000	0.000	0.000	0.000
CAGE	0.000	0.000	0.000	0.000	0.000
BCD4SPX1	0.000	0.000	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

THETA					
	CEFVBL	SQRTCD4	LS0	LS1	LS2

CEFVBL	0.000				
SQRTCD4	0.000	0.000			
LS0	0.000	0.000	0.000		
LS1	0.000	0.000	0.000	0.000	
LS2	0.000	0.000	0.000	0.000	0.000
CSEX	0.000	0.000	0.000	0.000	0.000
CAGE	0.000	0.000	0.000	0.000	0.000
BCD4SPX1	0.000	0.000	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000	0.000	0.000
THETA					
	CSEX	CAGE	BCD4SPX1	BCD4SPX2	BCD4SPX3
CSEX	0.000				
CAGE	0.000	0.000			
BCD4SPX1	0.000	0.000	0.000		
BCD4SPX2	0.000	0.000	0.000	0.000	
BCD4SPX3	0.000	0.000	0.000	0.000	0.000
ALPHA					
	S0	S1	S2	CBVLM2	CBVLM3
1	0.000	0.000	0.000	0.000	0.000
ALPHA					
	CBVLM4	CBVLM5	CAZTBL	CEFVBL	SQRTCD4
1	0.000	0.000	0.000	0.000	0.000
ALPHA					
	LS0	LS1	LS2	CSEX	CAGE
1	0.000	0.000	0.000	0.000	0.000
ALPHA					
	BCD4SPX1	BCD4SPX2	BCD4SPX3		
1	0.000	0.000	0.000		
BETA					
	S0	S1	S2	CBVLM2	CBVLM3
S0	0.000	0.000	0.000	0.000	0.000
S1	0.000	0.000	0.000	0.000	0.000
S2	0.000	0.000	0.000	0.000	0.000
CBVLM2	0.000	0.000	0.000	0.000	0.000
CBVLM3	0.000	0.000	0.000	0.000	0.000
CBVLM4	0.000	0.000	0.000	0.000	0.000
CBVLM5	0.000	0.000	0.000	0.000	0.000
CAZTBL	0.000	0.000	0.000	0.000	0.000
CEFVBL	0.000	0.000	0.000	0.000	0.000
SQRTCD4	0.000	0.000	0.000	0.000	0.000
LS0	0.000	0.000	0.000	0.000	0.000
LS1	0.000	0.000	0.000	0.000	0.000
LS2	0.000	0.000	0.000	0.000	0.000

CSEX	0.000	0.000	0.000	0.000	0.000
CAGE	0.000	0.000	0.000	0.000	0.000
BCD4SPX1	0.000	0.000	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

	BETA				
	CBVLM4	CBVLM5	CAZTBL	CEFVBL	SQRTCD4
S0	0.000	0.000	0.000	0.000	0.000
S1	0.000	0.000	0.000	0.000	0.000
S2	0.000	0.000	0.000	0.000	0.000
CBVLM2	0.000	0.000	0.000	0.000	0.000
CBVLM3	0.000	0.000	0.000	0.000	0.000
CBVLM4	0.000	0.000	0.000	0.000	0.000
CBVLM5	0.000	0.000	0.000	0.000	0.000
CAZTBL	0.000	0.000	0.000	0.000	0.000
CEFVBL	0.000	0.000	0.000	0.000	0.000
SQRTCD4	0.000	0.000	0.000	0.000	0.000
LS0	0.000	0.000	0.000	0.000	0.000
LS1	0.000	0.000	0.000	0.000	0.000
LS2	0.000	0.000	0.000	0.000	0.000
CSEX	0.000	0.000	0.000	0.000	0.000
CAGE	0.000	0.000	0.000	0.000	0.000
BCD4SPX1	0.000	0.000	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

	BETA				
	LS0	LS1	LS2	CSEX	CAGE
S0	0.000	0.000	0.000	0.000	0.000
S1	0.000	0.000	0.000	0.000	0.000
S2	0.000	0.000	0.000	0.000	0.000
CBVLM2	0.000	0.000	0.000	0.000	0.000
CBVLM3	0.000	0.000	0.000	0.000	0.000
CBVLM4	0.000	0.000	0.000	0.000	0.000
CBVLM5	0.000	0.000	0.000	0.000	0.000
CAZTBL	0.000	0.000	0.000	0.000	0.000
CEFVBL	0.000	0.000	0.000	0.000	0.000
SQRTCD4	0.000	0.000	0.000	0.000	0.000
LS0	0.000	0.000	0.000	0.000	0.000
LS1	0.000	0.000	0.000	0.000	0.000
LS2	0.000	0.000	0.000	0.000	0.000
CSEX	0.000	0.000	0.000	0.000	0.000
CAGE	0.000	0.000	0.000	0.000	0.000
BCD4SPX1	0.000	0.000	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

	BETA		
	BCD4SPX1	BCD4SPX2	BCD4SPX3
S0	0.000	0.000	0.000
S1	0.000	0.000	0.000
S2	0.000	0.000	0.000
CBVLM2	0.000	0.000	0.000
CBVLM3	0.000	0.000	0.000
CBVLM4	0.000	0.000	0.000
CBVLM5	0.000	0.000	0.000

CAZTBL	0.000	0.000	0.000
CEFVBL	0.000	0.000	0.000
SQRTCD4	0.000	0.000	0.000
LS0	0.000	0.000	0.000
LS1	0.000	0.000	0.000
LS2	0.000	0.000	0.000
CSEX	0.000	0.000	0.000
CAGE	0.000	0.000	0.000
BCD4SPX1	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000

	PSI				
	S0	S1	S2	CBVLM2	CBVLM3
S0	0.000				
S1	0.000	0.000			
S2	0.000	0.000	0.000		
CBVLM2	0.000	0.000	0.000	0.000	
CBVLM3	0.000	0.000	0.000	0.000	0.000
CBVLM4	0.000	0.000	0.000	0.000	0.000
CBVLM5	0.000	0.000	0.000	0.000	0.000
CAZTBL	0.000	0.000	0.000	0.000	0.000
CEFVBL	0.000	0.000	0.000	0.000	0.000
SQRTCD4	0.000	0.000	0.000	0.000	0.000
LS0	0.000	0.000	0.000	0.000	0.000
LS1	0.000	0.000	0.000	0.000	0.000
LS2	0.000	0.000	0.000	0.000	0.000
CSEX	0.000	0.000	0.000	0.000	0.000
CAGE	0.000	0.000	0.000	0.000	0.000
BCD4SPX1	0.000	0.000	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

	PSI				
	CBVLM4	CBVLM5	CAZTBL	CEFVBL	SQRTCD4
CBVLM4	0.000				
CBVLM5	0.000	0.000			
CAZTBL	0.000	0.000	0.000		
CEFVBL	0.000	0.000	0.000	0.000	
SQRTCD4	0.000	0.000	0.000	0.000	12.769
LS0	0.000	0.000	0.000	0.000	0.000
LS1	0.000	0.000	0.000	0.000	0.000
LS2	0.000	0.000	0.000	0.000	0.000
CSEX	0.000	0.000	0.000	0.000	0.000
CAGE	0.000	0.000	0.000	0.000	0.000
BCD4SPX1	0.000	0.000	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

	PSI				
	LS0	LS1	LS2	CSEX	CAGE
LS0	0.148				
LS1	0.000	5.418			
LS2	0.000	0.000	25.065		
CSEX	0.000	0.000	0.000	0.000	
CAGE	0.000	0.000	0.000	0.000	0.000
BCD4SPX1	0.000	0.000	0.000	0.000	0.000

BCD4SPX2	0.000	0.000	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

PSI					
	BCD4SPX1	BCD4SPX2	BCD4SPX3		
BCD4SPX1	0.000				
BCD4SPX2	0.000	0.000			
BCD4SPX3	0.000	0.000	0.000		

STARTING VALUES FOR EA BETWEEN

NU					
	CBVLM2	CBVLM3	CBVLM4	CBVLM5	CAZTBL
1	0.000	0.000	0.000	0.000	0.000

NU					
	CEFVBL	SQRTCD4	LS0	LS1	LS2
1	0.000	0.000	0.000	0.000	0.000

NU					
	CSEX	CAGE	BCD4SPX1	BCD4SPX2	BCD4SPX3
1	0.000	0.000	0.000	0.000	0.000

LAMBDA					
	S0	S1	S2	CBVLM2	CBVLM3
CBVLM2	0.000	0.000	0.000	1.000	0.000
CBVLM3	0.000	0.000	0.000	0.000	1.000
CBVLM4	0.000	0.000	0.000	0.000	0.000
CBVLM5	0.000	0.000	0.000	0.000	0.000
CAZTBL	0.000	0.000	0.000	0.000	0.000
CEFVBL	0.000	0.000	0.000	0.000	0.000
SQRTCD4	0.000	0.000	0.000	0.000	0.000
LS0	0.000	0.000	0.000	0.000	0.000
LS1	0.000	0.000	0.000	0.000	0.000
LS2	0.000	0.000	0.000	0.000	0.000
CSEX	0.000	0.000	0.000	0.000	0.000
CAGE	0.000	0.000	0.000	0.000	0.000
BCD4SPX1	0.000	0.000	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

LAMBDA					
	CBVLM4	CBVLM5	CAZTBL	CEFVBL	SQRTCD4
CBVLM2	0.000	0.000	0.000	0.000	0.000
CBVLM3	0.000	0.000	0.000	0.000	0.000
CBVLM4	1.000	0.000	0.000	0.000	0.000
CBVLM5	0.000	1.000	0.000	0.000	0.000
CAZTBL	0.000	0.000	1.000	0.000	0.000
CEFVBL	0.000	0.000	0.000	1.000	0.000
SQRTCD4	0.000	0.000	0.000	0.000	1.000

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LS0	0.000	0.000	0.000	0.000	0.000
LS1	0.000	0.000	0.000	0.000	0.000
LS2	0.000	0.000	0.000	0.000	0.000
CSEX	0.000	0.000	0.000	0.000	0.000
CAGE	0.000	0.000	0.000	0.000	0.000
BCD4SPX1	0.000	0.000	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

LAMBDA					
	LS0	LS1	LS2	CSEX	CAGE
CBVLM2	0.000	0.000	0.000	0.000	0.000
CBVLM3	0.000	0.000	0.000	0.000	0.000
CBVLM4	0.000	0.000	0.000	0.000	0.000
CBVLM5	0.000	0.000	0.000	0.000	0.000
CAZTBL	0.000	0.000	0.000	0.000	0.000
CEFVBL	0.000	0.000	0.000	0.000	0.000
SQRTCD4	0.000	0.000	0.000	0.000	0.000
LS0	1.000	0.000	0.000	0.000	0.000
LS1	0.000	1.000	0.000	0.000	0.000
LS2	0.000	0.000	1.000	0.000	0.000
CSEX	0.000	0.000	0.000	1.000	0.000
CAGE	0.000	0.000	0.000	0.000	1.000
BCD4SPX1	0.000	0.000	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

LAMBDA			
	BCD4SPX1	BCD4SPX2	BCD4SPX3
CBVLM2	0.000	0.000	0.000
CBVLM3	0.000	0.000	0.000
CBVLM4	0.000	0.000	0.000
CBVLM5	0.000	0.000	0.000
CAZTBL	0.000	0.000	0.000
CEFVBL	0.000	0.000	0.000
SQRTCD4	0.000	0.000	0.000
LS0	0.000	0.000	0.000
LS1	0.000	0.000	0.000
LS2	0.000	0.000	0.000
CSEX	0.000	0.000	0.000
CAGE	0.000	0.000	0.000
BCD4SPX1	1.000	0.000	0.000
BCD4SPX2	0.000	1.000	0.000
BCD4SPX3	0.000	0.000	1.000

THETA					
	CBVLM2	CBVLM3	CBVLM4	CBVLM5	CAZTBL
CBVLM2	0.000				
CBVLM3	0.000	0.000			
CBVLM4	0.000	0.000	0.000		
CBVLM5	0.000	0.000	0.000	0.000	
CAZTBL	0.000	0.000	0.000	0.000	0.000
CEFVBL	0.000	0.000	0.000	0.000	0.000
SQRTCD4	0.000	0.000	0.000	0.000	0.000
LS0	0.000	0.000	0.000	0.000	0.000
LS1	0.000	0.000	0.000	0.000	0.000
LS2	0.000	0.000	0.000	0.000	0.000

CSEX	0.000	0.000	0.000	0.000	0.000
CAGE	0.000	0.000	0.000	0.000	0.000
BCD4SPX1	0.000	0.000	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

THETA					
	CEFVBL	SQRTCD4	LS0	LS1	LS2
CEFVBL	0.000				
SQRTCD4	0.000	0.000			
LS0	0.000	0.000	0.000		
LS1	0.000	0.000	0.000	0.000	
LS2	0.000	0.000	0.000	0.000	0.000
CSEX	0.000	0.000	0.000	0.000	0.000
CAGE	0.000	0.000	0.000	0.000	0.000
BCD4SPX1	0.000	0.000	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

THETA					
	CSEX	CAGE	BCD4SPX1	BCD4SPX2	BCD4SPX3
CSEX	0.000				
CAGE	0.000	0.000			
BCD4SPX1	0.000	0.000	0.000		
BCD4SPX2	0.000	0.000	0.000	0.000	
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

ALPHA					
	S0	S1	S2	CBVLM2	CBVLM3
1	0.000	0.000	0.000	0.000	0.000

ALPHA					
	CBVLM4	CBVLM5	CAZTBL	CEFVBL	SQRTCD4
1	0.000	0.000	0.000	0.000	0.000

ALPHA					
	LS0	LS1	LS2	CSEX	CAGE
1	0.000	0.000	0.000	0.000	0.000

ALPHA					
	BCD4SPX1	BCD4SPX2	BCD4SPX3		
1	0.000	0.000	0.000		

BETA					
	S0	S1	S2	CBVLM2	CBVLM3
S0	0.000	0.000	0.000	0.000	0.000
S1	0.000	0.000	0.000	0.000	0.000
S2	0.000	0.000	0.000	0.000	0.000
CBVLM2	0.000	0.000	0.000	0.000	0.000



CBVLM3	0.000	0.000	0.000	0.000	0.000
CBVLM4	0.000	0.000	0.000	0.000	0.000
CBVLM5	0.000	0.000	0.000	0.000	0.000
CAZTBL	0.000	0.000	0.000	0.000	0.000
CEFVBL	0.000	0.000	0.000	0.000	0.000
SQRTCD4	0.000	0.000	0.000	0.000	0.000
LS0	0.000	0.000	0.000	0.000	0.000
LS1	0.000	0.000	0.000	0.000	0.000
LS2	0.000	0.000	0.000	0.000	0.000
CSEX	0.000	0.000	0.000	0.000	0.000
CAGE	0.000	0.000	0.000	0.000	0.000
BCD4SPX1	0.000	0.000	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

BETA

	CBVLM4	CBVLM5	CAZTBL	CEFVBL	SQRTCD4
S0	0.000	0.000	0.000	0.000	0.000
S1	0.000	0.000	0.000	0.000	0.000
S2	0.000	0.000	0.000	0.000	0.000
CBVLM2	0.000	0.000	0.000	0.000	0.000
CBVLM3	0.000	0.000	0.000	0.000	0.000
CBVLM4	0.000	0.000	0.000	0.000	0.000
CBVLM5	0.000	0.000	0.000	0.000	0.000
CAZTBL	0.000	0.000	0.000	0.000	0.000
CEFVBL	0.000	0.000	0.000	0.000	0.000
SQRTCD4	0.000	0.000	0.000	0.000	0.000
LS0	0.000	0.000	0.000	0.000	0.000
LS1	0.000	0.000	0.000	0.000	0.000
LS2	0.000	0.000	0.000	0.000	0.000
CSEX	0.000	0.000	0.000	0.000	0.000
CAGE	0.000	0.000	0.000	0.000	0.000
BCD4SPX1	0.000	0.000	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

BETA

	LS0	LS1	LS2	CSEX	CAGE
S0	0.000	0.000	0.000	0.000	0.000
S1	0.000	0.000	0.000	0.000	0.000
S2	0.000	0.000	0.000	0.000	0.000
CBVLM2	0.000	0.000	0.000	0.000	0.000
CBVLM3	0.000	0.000	0.000	0.000	0.000
CBVLM4	0.000	0.000	0.000	0.000	0.000
CBVLM5	0.000	0.000	0.000	0.000	0.000
CAZTBL	0.000	0.000	0.000	0.000	0.000
CEFVBL	0.000	0.000	0.000	0.000	0.000
SQRTCD4	0.000	0.000	0.000	0.000	0.000
LS0	0.000	0.000	0.000	0.000	0.000
LS1	0.000	0.000	0.000	0.000	0.000
LS2	0.000	0.000	0.000	0.000	0.000
CSEX	0.000	0.000	0.000	0.000	0.000
CAGE	0.000	0.000	0.000	0.000	0.000
BCD4SPX1	0.000	0.000	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

BETA

	BCD4SPX1	BCD4SPX2	BCD4SPX3
S0	0.000	0.000	0.000
S1	0.000	0.000	0.000
S2	0.000	0.000	0.000
CBVLM2	0.000	0.000	0.000
CBVLM3	0.000	0.000	0.000
CBVLM4	0.000	0.000	0.000
CBVLM5	0.000	0.000	0.000
CAZTBL	0.000	0.000	0.000
CEFVBL	0.000	0.000	0.000
SQRTCD4	0.000	0.000	0.000
LS0	0.000	0.000	0.000
LS1	0.000	0.000	0.000
LS2	0.000	0.000	0.000
CSEX	0.000	0.000	0.000
CAGE	0.000	0.000	0.000
BCD4SPX1	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000

	PSI				
	S0	S1	S2	CBVLM2	CBVLM3
S0	1.000				
S1	0.000	1.000			
S2	0.000	0.000	1.000		
CBVLM2	0.000	0.000	0.000	0.069	
CBVLM3	0.000	0.000	0.000	0.000	0.105
CBVLM4	0.000	0.000	0.000	0.000	0.000
CBVLM5	0.000	0.000	0.000	0.000	0.000
CAZTBL	0.000	0.000	0.000	0.000	0.000
CEFVBL	0.000	0.000	0.000	0.000	0.000
SQRTCD4	0.000	0.000	0.000	0.000	0.000
LS0	0.000	0.000	0.000	0.000	0.000
LS1	0.000	0.000	0.000	0.000	0.000
LS2	0.000	0.000	0.000	0.000	0.000
CSEX	0.000	0.000	0.000	0.000	0.000
CAGE	0.000	0.000	0.000	0.000	0.000
BCD4SPX1	0.000	0.000	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

	PSI				
	CBVLM4	CBVLM5	CAZTBL	CEFVBL	SQRTCD4
CBVLM4	0.096				
CBVLM5	0.000	0.078			
CAZTBL	0.000	0.000	0.121		
CEFVBL	0.000	0.000	0.000	0.066	
SQRTCD4	0.000	0.000	0.000	0.000	12.769
LS0	0.000	0.000	0.000	0.000	0.000
LS1	0.000	0.000	0.000	0.000	0.000
LS2	0.000	0.000	0.000	0.000	0.000
CSEX	0.000	0.000	0.000	0.000	0.000
CAGE	0.000	0.000	0.000	0.000	0.000
BCD4SPX1	0.000	0.000	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

PSI					
	LS0	LS1	LS2	CSEX	CAGE
LS0	0.000				
LS1	0.000	0.000			
LS2	0.000	0.000	0.000		
CSEX	0.000	0.000	0.000	0.075	
CAGE	0.000	0.000	0.000	0.000	47.314
BCD4SPX1	0.000	0.000	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

PSI			
	BCD4SPX1	BCD4SPX2	BCD4SPX3
BCD4SPX1	5308.340		
BCD4SPX2	0.000	4598.894	
BCD4SPX3	0.000	0.000	592.398

STARTING VALUES FOR SA WITHIN

NU					
	CBVLM2	CBVLM3	CBVLM4	CBVLM5	CAZTBL
1	0.000	0.000	0.000	0.000	0.000

NU					
	CEFVBL	SQRTCD4	LS0	LS1	LS2
1	0.000	0.000	0.000	0.000	0.000

NU					
	CSEX	CAGE	BCD4SPX1	BCD4SPX2	BCD4SPX3
1	0.000	0.000	0.000	0.000	0.000

LAMBDA					
	S0	S1	S2	CBVLM2	CBVLM3
CBVLM2	0.000	0.000	0.000	1.000	0.000
CBVLM3	0.000	0.000	0.000	0.000	1.000
CBVLM4	0.000	0.000	0.000	0.000	0.000
CBVLM5	0.000	0.000	0.000	0.000	0.000
CAZTBL	0.000	0.000	0.000	0.000	0.000
CEFVBL	0.000	0.000	0.000	0.000	0.000
SQRTCD4	0.000	0.000	0.000	0.000	0.000
LS0	0.000	0.000	0.000	0.000	0.000
LS1	0.000	0.000	0.000	0.000	0.000
LS2	0.000	0.000	0.000	0.000	0.000
CSEX	0.000	0.000	0.000	0.000	0.000
CAGE	0.000	0.000	0.000	0.000	0.000
BCD4SPX1	0.000	0.000	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

LAMBDA

	CBVLM4	CBVLM5	CAZTBL	CEFVBL	SQRTCD4
CBVLM2	0.000	0.000	0.000	0.000	0.000
CBVLM3	0.000	0.000	0.000	0.000	0.000
CBVLM4	1.000	0.000	0.000	0.000	0.000
CBVLM5	0.000	1.000	0.000	0.000	0.000
CAZTBL	0.000	0.000	1.000	0.000	0.000
CEFVBL	0.000	0.000	0.000	1.000	0.000
SQRTCD4	0.000	0.000	0.000	0.000	1.000
LS0	0.000	0.000	0.000	0.000	0.000
LS1	0.000	0.000	0.000	0.000	0.000
LS2	0.000	0.000	0.000	0.000	0.000
CSEX	0.000	0.000	0.000	0.000	0.000
CAGE	0.000	0.000	0.000	0.000	0.000
BCD4SPX1	0.000	0.000	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

	LAMBDA				
	LS0	LS1	LS2	CSEX	CAGE
CBVLM2	0.000	0.000	0.000	0.000	0.000
CBVLM3	0.000	0.000	0.000	0.000	0.000
CBVLM4	0.000	0.000	0.000	0.000	0.000
CBVLM5	0.000	0.000	0.000	0.000	0.000
CAZTBL	0.000	0.000	0.000	0.000	0.000
CEFVBL	0.000	0.000	0.000	0.000	0.000
SQRTCD4	0.000	0.000	0.000	0.000	0.000
LS0	1.000	0.000	0.000	0.000	0.000
LS1	0.000	1.000	0.000	0.000	0.000
LS2	0.000	0.000	1.000	0.000	0.000
CSEX	0.000	0.000	0.000	1.000	0.000
CAGE	0.000	0.000	0.000	0.000	1.000
BCD4SPX1	0.000	0.000	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

	LAMBDA		
	BCD4SPX1	BCD4SPX2	BCD4SPX3
CBVLM2	0.000	0.000	0.000
CBVLM3	0.000	0.000	0.000
CBVLM4	0.000	0.000	0.000
CBVLM5	0.000	0.000	0.000
CAZTBL	0.000	0.000	0.000
CEFVBL	0.000	0.000	0.000
SQRTCD4	0.000	0.000	0.000
LS0	0.000	0.000	0.000
LS1	0.000	0.000	0.000
LS2	0.000	0.000	0.000
CSEX	0.000	0.000	0.000
CAGE	0.000	0.000	0.000
BCD4SPX1	1.000	0.000	0.000
BCD4SPX2	0.000	1.000	0.000
BCD4SPX3	0.000	0.000	1.000

	THETA				
	CBVLM2	CBVLM3	CBVLM4	CBVLM5	CAZTBL
CBVLM2	0.000				

CBVLM3	0.000	0.000			
CBVLM4	0.000	0.000	0.000		
CBVLM5	0.000	0.000	0.000	0.000	
CAZTBL	0.000	0.000	0.000	0.000	0.000
CEFVBL	0.000	0.000	0.000	0.000	0.000
SQRTCD4	0.000	0.000	0.000	0.000	0.000
LS0	0.000	0.000	0.000	0.000	0.000
LS1	0.000	0.000	0.000	0.000	0.000
LS2	0.000	0.000	0.000	0.000	0.000
CSEX	0.000	0.000	0.000	0.000	0.000
CAGE	0.000	0.000	0.000	0.000	0.000
BCD4SPX1	0.000	0.000	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

THETA

	CEFVBL	SQRTCD4	LS0	LS1	LS2
CEFVBL	0.000				
SQRTCD4	0.000	0.000			
LS0	0.000	0.000	0.000		
LS1	0.000	0.000	0.000	0.000	
LS2	0.000	0.000	0.000	0.000	0.000
CSEX	0.000	0.000	0.000	0.000	0.000
CAGE	0.000	0.000	0.000	0.000	0.000
BCD4SPX1	0.000	0.000	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

THETA

	CSEX	CAGE	BCD4SPX1	BCD4SPX2	BCD4SPX3
CSEX	0.000				
CAGE	0.000	0.000			
BCD4SPX1	0.000	0.000	0.000		
BCD4SPX2	0.000	0.000	0.000	0.000	
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

ALPHA

	S0	S1	S2	CBVLM2	CBVLM3
1	0.000	0.000	0.000	0.000	0.000

ALPHA

	CBVLM4	CBVLM5	CAZTBL	CEFVBL	SQRTCD4
1	0.000	0.000	0.000	0.000	0.000

ALPHA

	LS0	LS1	LS2	CSEX	CAGE
1	0.000	0.000	0.000	0.000	0.000

ALPHA

	BCD4SPX1	BCD4SPX2	BCD4SPX3
1	0.000	0.000	0.000

	BETA				
	S0	S1	S2	CBVLM2	CBVLM3
S0	0.000	0.000	0.000	0.000	0.000
S1	0.000	0.000	0.000	0.000	0.000
S2	0.000	0.000	0.000	0.000	0.000
CBVLM2	0.000	0.000	0.000	0.000	0.000
CBVLM3	0.000	0.000	0.000	0.000	0.000
CBVLM4	0.000	0.000	0.000	0.000	0.000
CBVLM5	0.000	0.000	0.000	0.000	0.000
CAZTBL	0.000	0.000	0.000	0.000	0.000
CEFVBL	0.000	0.000	0.000	0.000	0.000
SQRTCD4	0.000	0.000	0.000	0.000	0.000
LS0	0.000	0.000	0.000	0.000	0.000
LS1	0.000	0.000	0.000	0.000	0.000
LS2	0.000	0.000	0.000	0.000	0.000
CSEX	0.000	0.000	0.000	0.000	0.000
CAGE	0.000	0.000	0.000	0.000	0.000
BCD4SPX1	0.000	0.000	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

	BETA				
	CBVLM4	CBVLM5	CAZTBL	CEFVBL	SQRTCD4
S0	0.000	0.000	0.000	0.000	0.000
S1	0.000	0.000	0.000	0.000	0.000
S2	0.000	0.000	0.000	0.000	0.000
CBVLM2	0.000	0.000	0.000	0.000	0.000
CBVLM3	0.000	0.000	0.000	0.000	0.000
CBVLM4	0.000	0.000	0.000	0.000	0.000
CBVLM5	0.000	0.000	0.000	0.000	0.000
CAZTBL	0.000	0.000	0.000	0.000	0.000
CEFVBL	0.000	0.000	0.000	0.000	0.000
SQRTCD4	0.000	0.000	0.000	0.000	0.000
LS0	0.000	0.000	0.000	0.000	0.000
LS1	0.000	0.000	0.000	0.000	0.000
LS2	0.000	0.000	0.000	0.000	0.000
CSEX	0.000	0.000	0.000	0.000	0.000
CAGE	0.000	0.000	0.000	0.000	0.000
BCD4SPX1	0.000	0.000	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

	BETA				
	LS0	LS1	LS2	CSEX	CAGE
S0	0.000	0.000	0.000	0.000	0.000
S1	0.000	0.000	0.000	0.000	0.000
S2	0.000	0.000	0.000	0.000	0.000
CBVLM2	0.000	0.000	0.000	0.000	0.000
CBVLM3	0.000	0.000	0.000	0.000	0.000
CBVLM4	0.000	0.000	0.000	0.000	0.000
CBVLM5	0.000	0.000	0.000	0.000	0.000
CAZTBL	0.000	0.000	0.000	0.000	0.000
CEFVBL	0.000	0.000	0.000	0.000	0.000
SQRTCD4	0.000	0.000	0.000	0.000	0.000
LS0	0.000	0.000	0.000	0.000	0.000
LS1	0.000	0.000	0.000	0.000	0.000

LS2	0.000	0.000	0.000	0.000	0.000
CSEX	0.000	0.000	0.000	0.000	0.000
CAGE	0.000	0.000	0.000	0.000	0.000
BCD4SPX1	0.000	0.000	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

BETA

	BCD4SPX1	BCD4SPX2	BCD4SPX3
S0	0.000	0.000	0.000
S1	0.000	0.000	0.000
S2	0.000	0.000	0.000
CBVLM2	0.000	0.000	0.000
CBVLM3	0.000	0.000	0.000
CBVLM4	0.000	0.000	0.000
CBVLM5	0.000	0.000	0.000
CAZTBL	0.000	0.000	0.000
CEFVBL	0.000	0.000	0.000
SQRTCD4	0.000	0.000	0.000
LS0	0.000	0.000	0.000
LS1	0.000	0.000	0.000
LS2	0.000	0.000	0.000
CSEX	0.000	0.000	0.000
CAGE	0.000	0.000	0.000
BCD4SPX1	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000

PSI

	S0	S1	S2	CBVLM2	CBVLM3
S0	0.000				
S1	0.000	0.000			
S2	0.000	0.000	0.000		
CBVLM2	0.000	0.000	0.000	0.000	
CBVLM3	0.000	0.000	0.000	0.000	0.000
CBVLM4	0.000	0.000	0.000	0.000	0.000
CBVLM5	0.000	0.000	0.000	0.000	0.000
CAZTBL	0.000	0.000	0.000	0.000	0.000
CEFVBL	0.000	0.000	0.000	0.000	0.000
SQRTCD4	0.000	0.000	0.000	0.000	0.000
LS0	0.000	0.000	0.000	0.000	0.000
LS1	0.000	0.000	0.000	0.000	0.000
LS2	0.000	0.000	0.000	0.000	0.000
CSEX	0.000	0.000	0.000	0.000	0.000
CAGE	0.000	0.000	0.000	0.000	0.000
BCD4SPX1	0.000	0.000	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

PSI

	CBVLM4	CBVLM5	CAZTBL	CEFVBL	SQRTCD4
CBVLM4	0.000				
CBVLM5	0.000	0.000			
CAZTBL	0.000	0.000	0.000		
CEFVBL	0.000	0.000	0.000	0.000	
SQRTCD4	0.000	0.000	0.000	0.000	12.769
LS0	0.000	0.000	0.000	0.000	0.000

LS1	0.000	0.000	0.000	0.000	0.000
LS2	0.000	0.000	0.000	0.000	0.000
CSEX	0.000	0.000	0.000	0.000	0.000
CAGE	0.000	0.000	0.000	0.000	0.000
BCD4SPX1	0.000	0.000	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

PSI					
	LS0	LS1	LS2	CSEX	CAGE
LS0	0.148				
LS1	0.000	5.418			
LS2	0.000	0.000	25.065		
CSEX	0.000	0.000	0.000	0.000	
CAGE	0.000	0.000	0.000	0.000	0.000
BCD4SPX1	0.000	0.000	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

PSI			
	BCD4SPX1	BCD4SPX2	BCD4SPX3
BCD4SPX1	0.000		
BCD4SPX2	0.000	0.000	
BCD4SPX3	0.000	0.000	0.000

STARTING VALUES FOR SA BETWEEN

NU					
	CBVLM2	CBVLM3	CBVLM4	CBVLM5	CAZTBL
1	0.000	0.000	0.000	0.000	0.000

NU					
	CEFVBL	SQRTCD4	LS0	LS1	LS2
1	0.000	0.000	0.000	0.000	0.000

NU					
	CSEX	CAGE	BCD4SPX1	BCD4SPX2	BCD4SPX3
1	0.000	0.000	0.000	0.000	0.000

LAMBDA					
	S0	S1	S2	CBVLM2	CBVLM3
CBVLM2	0.000	0.000	0.000	1.000	0.000
CBVLM3	0.000	0.000	0.000	0.000	1.000
CBVLM4	0.000	0.000	0.000	0.000	0.000
CBVLM5	0.000	0.000	0.000	0.000	0.000
CAZTBL	0.000	0.000	0.000	0.000	0.000
CEFVBL	0.000	0.000	0.000	0.000	0.000
SQRTCD4	0.000	0.000	0.000	0.000	0.000
LS0	0.000	0.000	0.000	0.000	0.000
LS1	0.000	0.000	0.000	0.000	0.000



LS2	0.000	0.000	0.000	0.000	0.000
CSEX	0.000	0.000	0.000	0.000	0.000
CAGE	0.000	0.000	0.000	0.000	0.000
BCD4SPX1	0.000	0.000	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

LAMBDA					
	CBVLM4	CBVLM5	CAZTBL	CEFVBL	SQRTCD4
CBVLM2	0.000	0.000	0.000	0.000	0.000
CBVLM3	0.000	0.000	0.000	0.000	0.000
CBVLM4	1.000	0.000	0.000	0.000	0.000
CBVLM5	0.000	1.000	0.000	0.000	0.000
CAZTBL	0.000	0.000	1.000	0.000	0.000
CEFVBL	0.000	0.000	0.000	1.000	0.000
SQRTCD4	0.000	0.000	0.000	0.000	1.000
LS0	0.000	0.000	0.000	0.000	0.000
LS1	0.000	0.000	0.000	0.000	0.000
LS2	0.000	0.000	0.000	0.000	0.000
CSEX	0.000	0.000	0.000	0.000	0.000
CAGE	0.000	0.000	0.000	0.000	0.000
BCD4SPX1	0.000	0.000	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

LAMBDA					
	LS0	LS1	LS2	CSEX	CAGE
CBVLM2	0.000	0.000	0.000	0.000	0.000
CBVLM3	0.000	0.000	0.000	0.000	0.000
CBVLM4	0.000	0.000	0.000	0.000	0.000
CBVLM5	0.000	0.000	0.000	0.000	0.000
CAZTBL	0.000	0.000	0.000	0.000	0.000
CEFVBL	0.000	0.000	0.000	0.000	0.000
SQRTCD4	0.000	0.000	0.000	0.000	0.000
LS0	1.000	0.000	0.000	0.000	0.000
LS1	0.000	1.000	0.000	0.000	0.000
LS2	0.000	0.000	1.000	0.000	0.000
CSEX	0.000	0.000	0.000	1.000	0.000
CAGE	0.000	0.000	0.000	0.000	1.000
BCD4SPX1	0.000	0.000	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

LAMBDA			
	BCD4SPX1	BCD4SPX2	BCD4SPX3
CBVLM2	0.000	0.000	0.000
CBVLM3	0.000	0.000	0.000
CBVLM4	0.000	0.000	0.000
CBVLM5	0.000	0.000	0.000
CAZTBL	0.000	0.000	0.000
CEFVBL	0.000	0.000	0.000
SQRTCD4	0.000	0.000	0.000
LS0	0.000	0.000	0.000
LS1	0.000	0.000	0.000
LS2	0.000	0.000	0.000
CSEX	0.000	0.000	0.000
CAGE	0.000	0.000	0.000

BCD4SPX1	1.000	0.000	0.000
BCD4SPX2	0.000	1.000	0.000
BCD4SPX3	0.000	0.000	1.000

THETA

	CBVLM2	CBVLM3	CBVLM4	CBVLM5	CAZTBL
CBVLM2	0.000				
CBVLM3	0.000	0.000			
CBVLM4	0.000	0.000	0.000		
CBVLM5	0.000	0.000	0.000	0.000	
CAZTBL	0.000	0.000	0.000	0.000	0.000
CEFVBL	0.000	0.000	0.000	0.000	0.000
SQRTCD4	0.000	0.000	0.000	0.000	0.000
LS0	0.000	0.000	0.000	0.000	0.000
LS1	0.000	0.000	0.000	0.000	0.000
LS2	0.000	0.000	0.000	0.000	0.000
CSEX	0.000	0.000	0.000	0.000	0.000
CAGE	0.000	0.000	0.000	0.000	0.000
BCD4SPX1	0.000	0.000	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

THETA

	CEFVBL	SQRTCD4	LS0	LS1	LS2
CEFVBL	0.000				
SQRTCD4	0.000	0.000			
LS0	0.000	0.000	0.000		
LS1	0.000	0.000	0.000	0.000	
LS2	0.000	0.000	0.000	0.000	0.000
CSEX	0.000	0.000	0.000	0.000	0.000
CAGE	0.000	0.000	0.000	0.000	0.000
BCD4SPX1	0.000	0.000	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

THETA

	CSEX	CAGE	BCD4SPX1	BCD4SPX2	BCD4SPX3
CSEX	0.000				
CAGE	0.000	0.000			
BCD4SPX1	0.000	0.000	0.000		
BCD4SPX2	0.000	0.000	0.000	0.000	
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

ALPHA

	S0	S1	S2	CBVLM2	CBVLM3
1	0.000	0.000	0.000	0.000	0.000

ALPHA

	CBVLM4	CBVLM5	CAZTBL	CEFVBL	SQRTCD4
1	0.000	0.000	0.000	0.000	0.000

ALPHA

	LS0	LS1	LS2	CSEX	CAGE
1	0.000	0.000	0.000	0.000	0.000

ALPHA

	BCD4SPX1	BCD4SPX2	BCD4SPX3
1	0.000	0.000	0.000

BETA

	S0	S1	S2	CBVLM2	CBVLM3
S0	0.000	0.000	0.000	0.000	0.000
S1	0.000	0.000	0.000	0.000	0.000
S2	0.000	0.000	0.000	0.000	0.000
CBVLM2	0.000	0.000	0.000	0.000	0.000
CBVLM3	0.000	0.000	0.000	0.000	0.000
CBVLM4	0.000	0.000	0.000	0.000	0.000
CBVLM5	0.000	0.000	0.000	0.000	0.000
CAZTBL	0.000	0.000	0.000	0.000	0.000
CEFVBL	0.000	0.000	0.000	0.000	0.000
SQRTCD4	0.000	0.000	0.000	0.000	0.000
LS0	0.000	0.000	0.000	0.000	0.000
LS1	0.000	0.000	0.000	0.000	0.000
LS2	0.000	0.000	0.000	0.000	0.000
CSEX	0.000	0.000	0.000	0.000	0.000
CAGE	0.000	0.000	0.000	0.000	0.000
BCD4SPX1	0.000	0.000	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

BETA

	CBVLM4	CBVLM5	CAZTBL	CEFVBL	SQRTCD4
S0	0.000	0.000	0.000	0.000	0.000
S1	0.000	0.000	0.000	0.000	0.000
S2	0.000	0.000	0.000	0.000	0.000
CBVLM2	0.000	0.000	0.000	0.000	0.000
CBVLM3	0.000	0.000	0.000	0.000	0.000
CBVLM4	0.000	0.000	0.000	0.000	0.000
CBVLM5	0.000	0.000	0.000	0.000	0.000
CAZTBL	0.000	0.000	0.000	0.000	0.000
CEFVBL	0.000	0.000	0.000	0.000	0.000
SQRTCD4	0.000	0.000	0.000	0.000	0.000
LS0	0.000	0.000	0.000	0.000	0.000
LS1	0.000	0.000	0.000	0.000	0.000
LS2	0.000	0.000	0.000	0.000	0.000
CSEX	0.000	0.000	0.000	0.000	0.000
CAGE	0.000	0.000	0.000	0.000	0.000
BCD4SPX1	0.000	0.000	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

BETA

	LS0	LS1	LS2	CSEX	CAGE
S0	0.000	0.000	0.000	0.000	0.000
S1	0.000	0.000	0.000	0.000	0.000
S2	0.000	0.000	0.000	0.000	0.000

CBVLM2	0.000	0.000	0.000	0.000	0.000
CBVLM3	0.000	0.000	0.000	0.000	0.000
CBVLM4	0.000	0.000	0.000	0.000	0.000
CBVLM5	0.000	0.000	0.000	0.000	0.000
CAZTBL	0.000	0.000	0.000	0.000	0.000
CEFVBL	0.000	0.000	0.000	0.000	0.000
SQRTCD4	0.000	0.000	0.000	0.000	0.000
LS0	0.000	0.000	0.000	0.000	0.000
LS1	0.000	0.000	0.000	0.000	0.000
LS2	0.000	0.000	0.000	0.000	0.000
CSEX	0.000	0.000	0.000	0.000	0.000
CAGE	0.000	0.000	0.000	0.000	0.000
BCD4SPX1	0.000	0.000	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

BETA

	BCD4SPX1	BCD4SPX2	BCD4SPX3
S0	0.000	0.000	0.000
S1	0.000	0.000	0.000
S2	0.000	0.000	0.000
CBVLM2	0.000	0.000	0.000
CBVLM3	0.000	0.000	0.000
CBVLM4	0.000	0.000	0.000
CBVLM5	0.000	0.000	0.000
CAZTBL	0.000	0.000	0.000
CEFVBL	0.000	0.000	0.000
SQRTCD4	0.000	0.000	0.000
LS0	0.000	0.000	0.000
LS1	0.000	0.000	0.000
LS2	0.000	0.000	0.000
CSEX	0.000	0.000	0.000
CAGE	0.000	0.000	0.000
BCD4SPX1	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000

PSI

	S0	S1	S2	CBVLM2	CBVLM3
S0	1.000				
S1	0.000	1.000			
S2	0.000	0.000	1.000		
CBVLM2	0.000	0.000	0.000	0.069	
CBVLM3	0.000	0.000	0.000	0.000	0.105
CBVLM4	0.000	0.000	0.000	0.000	0.000
CBVLM5	0.000	0.000	0.000	0.000	0.000
CAZTBL	0.000	0.000	0.000	0.000	0.000
CEFVBL	0.000	0.000	0.000	0.000	0.000
SQRTCD4	0.000	0.000	0.000	0.000	0.000
LS0	0.000	0.000	0.000	0.000	0.000
LS1	0.000	0.000	0.000	0.000	0.000
LS2	0.000	0.000	0.000	0.000	0.000
CSEX	0.000	0.000	0.000	0.000	0.000
CAGE	0.000	0.000	0.000	0.000	0.000
BCD4SPX1	0.000	0.000	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

PSI					
	CBVLM4	CBVLM5	CAZTBL	CEFVBL	SQRTCD4
CBVLM4	0.096				
CBVLM5	0.000	0.078			
CAZTBL	0.000	0.000	0.121		
CEFVBL	0.000	0.000	0.000	0.066	
SQRTCD4	0.000	0.000	0.000	0.000	12.769
LS0	0.000	0.000	0.000	0.000	0.000
LS1	0.000	0.000	0.000	0.000	0.000
LS2	0.000	0.000	0.000	0.000	0.000
CSEX	0.000	0.000	0.000	0.000	0.000
CAGE	0.000	0.000	0.000	0.000	0.000
BCD4SPX1	0.000	0.000	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

PSI					
	LS0	LS1	LS2	CSEX	CAGE
LS0	0.000				
LS1	0.000	0.000			
LS2	0.000	0.000	0.000		
CSEX	0.000	0.000	0.000	0.075	
CAGE	0.000	0.000	0.000	0.000	47.314
BCD4SPX1	0.000	0.000	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

PSI				
	BCD4SPX1	BCD4SPX2	BCD4SPX3	
BCD4SPX1	5308.340			
BCD4SPX2	0.000	4598.894		
BCD4SPX3	0.000	0.000	592.398	

STARTING VALUES FOR ASIA WITHIN

NU					
	CBVLM2	CBVLM3	CBVLM4	CBVLM5	CAZTBL
1	0.000	0.000	0.000	0.000	0.000

NU					
	CEFVBL	SQRTCD4	LS0	LS1	LS2
1	0.000	0.000	0.000	0.000	0.000

NU					
	CSEX	CAGE	BCD4SPX1	BCD4SPX2	BCD4SPX3
1	0.000	0.000	0.000	0.000	0.000

LAMBDA					
	S0	S1	S2	CBVLM2	CBVLM3

CBVLM2	0.000	0.000	0.000	1.000	0.000
CBVLM3	0.000	0.000	0.000	0.000	1.000
CBVLM4	0.000	0.000	0.000	0.000	0.000
CBVLM5	0.000	0.000	0.000	0.000	0.000
CAZTBL	0.000	0.000	0.000	0.000	0.000
CEFVBL	0.000	0.000	0.000	0.000	0.000
SQRTCD4	0.000	0.000	0.000	0.000	0.000
LS0	0.000	0.000	0.000	0.000	0.000
LS1	0.000	0.000	0.000	0.000	0.000
LS2	0.000	0.000	0.000	0.000	0.000
CSEX	0.000	0.000	0.000	0.000	0.000
CAGE	0.000	0.000	0.000	0.000	0.000
BCD4SPX1	0.000	0.000	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

LAMBDA

	CBVLM4	CBVLM5	CAZTBL	CEFVBL	SQRTCD4
CBVLM2	0.000	0.000	0.000	0.000	0.000
CBVLM3	0.000	0.000	0.000	0.000	0.000
CBVLM4	1.000	0.000	0.000	0.000	0.000
CBVLM5	0.000	1.000	0.000	0.000	0.000
CAZTBL	0.000	0.000	1.000	0.000	0.000
CEFVBL	0.000	0.000	0.000	1.000	0.000
SQRTCD4	0.000	0.000	0.000	0.000	1.000
LS0	0.000	0.000	0.000	0.000	0.000
LS1	0.000	0.000	0.000	0.000	0.000
LS2	0.000	0.000	0.000	0.000	0.000
CSEX	0.000	0.000	0.000	0.000	0.000
CAGE	0.000	0.000	0.000	0.000	0.000
BCD4SPX1	0.000	0.000	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

LAMBDA

	LS0	LS1	LS2	CSEX	CAGE
CBVLM2	0.000	0.000	0.000	0.000	0.000
CBVLM3	0.000	0.000	0.000	0.000	0.000
CBVLM4	0.000	0.000	0.000	0.000	0.000
CBVLM5	0.000	0.000	0.000	0.000	0.000
CAZTBL	0.000	0.000	0.000	0.000	0.000
CEFVBL	0.000	0.000	0.000	0.000	0.000
SQRTCD4	0.000	0.000	0.000	0.000	0.000
LS0	1.000	0.000	0.000	0.000	0.000
LS1	0.000	1.000	0.000	0.000	0.000
LS2	0.000	0.000	1.000	0.000	0.000
CSEX	0.000	0.000	0.000	1.000	0.000
CAGE	0.000	0.000	0.000	0.000	1.000
BCD4SPX1	0.000	0.000	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

LAMBDA

	BCD4SPX1	BCD4SPX2	BCD4SPX3
CBVLM2	0.000	0.000	0.000
CBVLM3	0.000	0.000	0.000
CBVLM4	0.000	0.000	0.000

CBVLM5	0.000	0.000	0.000
CAZTBL	0.000	0.000	0.000
CEFVBL	0.000	0.000	0.000
SQRTCD4	0.000	0.000	0.000
LS0	0.000	0.000	0.000
LS1	0.000	0.000	0.000
LS2	0.000	0.000	0.000
CSEX	0.000	0.000	0.000
CAGE	0.000	0.000	0.000
BCD4SPX1	1.000	0.000	0.000
BCD4SPX2	0.000	1.000	0.000
BCD4SPX3	0.000	0.000	1.000

THETA					
	CBVLM2	CBVLM3	CBVLM4	CBVLM5	CAZTBL
CBVLM2	0.000				
CBVLM3	0.000	0.000			
CBVLM4	0.000	0.000	0.000		
CBVLM5	0.000	0.000	0.000	0.000	
CAZTBL	0.000	0.000	0.000	0.000	0.000
CEFVBL	0.000	0.000	0.000	0.000	0.000
SQRTCD4	0.000	0.000	0.000	0.000	0.000
LS0	0.000	0.000	0.000	0.000	0.000
LS1	0.000	0.000	0.000	0.000	0.000
LS2	0.000	0.000	0.000	0.000	0.000
CSEX	0.000	0.000	0.000	0.000	0.000
CAGE	0.000	0.000	0.000	0.000	0.000
BCD4SPX1	0.000	0.000	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

THETA					
	CEFVBL	SQRTCD4	LS0	LS1	LS2
CEFVBL	0.000				
SQRTCD4	0.000	0.000			
LS0	0.000	0.000	0.000		
LS1	0.000	0.000	0.000	0.000	
LS2	0.000	0.000	0.000	0.000	0.000
CSEX	0.000	0.000	0.000	0.000	0.000
CAGE	0.000	0.000	0.000	0.000	0.000
BCD4SPX1	0.000	0.000	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

THETA					
	CSEX	CAGE	BCD4SPX1	BCD4SPX2	BCD4SPX3
CSEX	0.000				
CAGE	0.000	0.000			
BCD4SPX1	0.000	0.000	0.000		
BCD4SPX2	0.000	0.000	0.000	0.000	
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

ALPHA					
	S0	S1	S2	CBVLM2	CBVLM3
1	0.000	0.000	0.000	0.000	0.000

ALPHA					
	CBVLM4	CBVLM5	CAZTBL	CEFVBL	SQRTCD4
1	0.000	0.000	0.000	0.000	0.000

ALPHA					
	LS0	LS1	LS2	CSEX	CAGE
1	0.000	0.000	0.000	0.000	0.000

ALPHA					
	BCD4SPX1	BCD4SPX2	BCD4SPX3		
1	0.000	0.000	0.000		

BETA					
	S0	S1	S2	CBVLM2	CBVLM3
S0	0.000	0.000	0.000	0.000	0.000
S1	0.000	0.000	0.000	0.000	0.000
S2	0.000	0.000	0.000	0.000	0.000
CBVLM2	0.000	0.000	0.000	0.000	0.000
CBVLM3	0.000	0.000	0.000	0.000	0.000
CBVLM4	0.000	0.000	0.000	0.000	0.000
CBVLM5	0.000	0.000	0.000	0.000	0.000
CAZTBL	0.000	0.000	0.000	0.000	0.000
CEFVBL	0.000	0.000	0.000	0.000	0.000
SQRTCD4	0.000	0.000	0.000	0.000	0.000
LS0	0.000	0.000	0.000	0.000	0.000
LS1	0.000	0.000	0.000	0.000	0.000
LS2	0.000	0.000	0.000	0.000	0.000
CSEX	0.000	0.000	0.000	0.000	0.000
CAGE	0.000	0.000	0.000	0.000	0.000
BCD4SPX1	0.000	0.000	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

BETA					
	CBVLM4	CBVLM5	CAZTBL	CEFVBL	SQRTCD4
S0	0.000	0.000	0.000	0.000	0.000
S1	0.000	0.000	0.000	0.000	0.000
S2	0.000	0.000	0.000	0.000	0.000
CBVLM2	0.000	0.000	0.000	0.000	0.000
CBVLM3	0.000	0.000	0.000	0.000	0.000
CBVLM4	0.000	0.000	0.000	0.000	0.000
CBVLM5	0.000	0.000	0.000	0.000	0.000
CAZTBL	0.000	0.000	0.000	0.000	0.000
CEFVBL	0.000	0.000	0.000	0.000	0.000
SQRTCD4	0.000	0.000	0.000	0.000	0.000
LS0	0.000	0.000	0.000	0.000	0.000
LS1	0.000	0.000	0.000	0.000	0.000
LS2	0.000	0.000	0.000	0.000	0.000
CSEX	0.000	0.000	0.000	0.000	0.000
CAGE	0.000	0.000	0.000	0.000	0.000
BCD4SPX1	0.000	0.000	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000	0.000	0.000



BCD4SPX3	0.000	0.000	0.000	0.000	0.000
BETA					
	LS0	LS1	LS2	CSEX	CAGE
S0	0.000	0.000	0.000	0.000	0.000
S1	0.000	0.000	0.000	0.000	0.000
S2	0.000	0.000	0.000	0.000	0.000
CBVLM2	0.000	0.000	0.000	0.000	0.000
CBVLM3	0.000	0.000	0.000	0.000	0.000
CBVLM4	0.000	0.000	0.000	0.000	0.000
CBVLM5	0.000	0.000	0.000	0.000	0.000
CAZTBL	0.000	0.000	0.000	0.000	0.000
CEFVBL	0.000	0.000	0.000	0.000	0.000
SQRTCD4	0.000	0.000	0.000	0.000	0.000
LS0	0.000	0.000	0.000	0.000	0.000
LS1	0.000	0.000	0.000	0.000	0.000
LS2	0.000	0.000	0.000	0.000	0.000
CSEX	0.000	0.000	0.000	0.000	0.000
CAGE	0.000	0.000	0.000	0.000	0.000
BCD4SPX1	0.000	0.000	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

BETA			
	BCD4SPX1	BCD4SPX2	BCD4SPX3
S0	0.000	0.000	0.000
S1	0.000	0.000	0.000
S2	0.000	0.000	0.000
CBVLM2	0.000	0.000	0.000
CBVLM3	0.000	0.000	0.000
CBVLM4	0.000	0.000	0.000
CBVLM5	0.000	0.000	0.000
CAZTBL	0.000	0.000	0.000
CEFVBL	0.000	0.000	0.000
SQRTCD4	0.000	0.000	0.000
LS0	0.000	0.000	0.000
LS1	0.000	0.000	0.000
LS2	0.000	0.000	0.000
CSEX	0.000	0.000	0.000
CAGE	0.000	0.000	0.000
BCD4SPX1	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000

PSI					
	S0	S1	S2	CBVLM2	CBVLM3
S0	0.000				
S1	0.000	0.000			
S2	0.000	0.000	0.000		
CBVLM2	0.000	0.000	0.000	0.000	
CBVLM3	0.000	0.000	0.000	0.000	0.000
CBVLM4	0.000	0.000	0.000	0.000	0.000
CBVLM5	0.000	0.000	0.000	0.000	0.000
CAZTBL	0.000	0.000	0.000	0.000	0.000
CEFVBL	0.000	0.000	0.000	0.000	0.000
SQRTCD4	0.000	0.000	0.000	0.000	0.000
LS0	0.000	0.000	0.000	0.000	0.000

LS1	0.000	0.000	0.000	0.000	0.000
LS2	0.000	0.000	0.000	0.000	0.000
CSEX	0.000	0.000	0.000	0.000	0.000
CAGE	0.000	0.000	0.000	0.000	0.000
BCD4SPX1	0.000	0.000	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

PSI

	CBVLM4	CBVLM5	CAZTBL	CEFVBL	SQRTCD4
CBVLM4	0.000				
CBVLM5	0.000	0.000			
CAZTBL	0.000	0.000	0.000		
CEFVBL	0.000	0.000	0.000	0.000	
SQRTCD4	0.000	0.000	0.000	0.000	12.769
LS0	0.000	0.000	0.000	0.000	0.000
LS1	0.000	0.000	0.000	0.000	0.000
LS2	0.000	0.000	0.000	0.000	0.000
CSEX	0.000	0.000	0.000	0.000	0.000
CAGE	0.000	0.000	0.000	0.000	0.000
BCD4SPX1	0.000	0.000	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

PSI

	LS0	LS1	LS2	CSEX	CAGE
LS0	0.148				
LS1	0.000	5.418			
LS2	0.000	0.000	25.065		
CSEX	0.000	0.000	0.000	0.000	
CAGE	0.000	0.000	0.000	0.000	0.000
BCD4SPX1	0.000	0.000	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

PSI

	BCD4SPX1	BCD4SPX2	BCD4SPX3
BCD4SPX1	0.000		
BCD4SPX2	0.000	0.000	
BCD4SPX3	0.000	0.000	0.000

STARTING VALUES FOR ASIA BETWEEN

NU

	CBVLM2	CBVLM3	CBVLM4	CBVLM5	CAZTBL
1	0.000	0.000	0.000	0.000	0.000

NU

	CEFVBL	SQRTCD4	LS0	LS1	LS2
1	0.000	0.000	0.000	0.000	0.000

NU					
	CSEX	CAGE	BCD4SPX1	BCD4SPX2	BCD4SPX3
1	0.000	0.000	0.000	0.000	0.000

LAMBDA					
	S0	S1	S2	CBVLM2	CBVLM3
CBVLM2	0.000	0.000	0.000	1.000	0.000
CBVLM3	0.000	0.000	0.000	0.000	1.000
CBVLM4	0.000	0.000	0.000	0.000	0.000
CBVLM5	0.000	0.000	0.000	0.000	0.000
CAZTBL	0.000	0.000	0.000	0.000	0.000
CEFVBL	0.000	0.000	0.000	0.000	0.000
SQRTCD4	0.000	0.000	0.000	0.000	0.000
LS0	0.000	0.000	0.000	0.000	0.000
LS1	0.000	0.000	0.000	0.000	0.000
LS2	0.000	0.000	0.000	0.000	0.000
CSEX	0.000	0.000	0.000	0.000	0.000
CAGE	0.000	0.000	0.000	0.000	0.000
BCD4SPX1	0.000	0.000	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

LAMBDA					
	CBVLM4	CBVLM5	CAZTBL	CEFVBL	SQRTCD4
CBVLM2	0.000	0.000	0.000	0.000	0.000
CBVLM3	0.000	0.000	0.000	0.000	0.000
CBVLM4	1.000	0.000	0.000	0.000	0.000
CBVLM5	0.000	1.000	0.000	0.000	0.000
CAZTBL	0.000	0.000	1.000	0.000	0.000
CEFVBL	0.000	0.000	0.000	1.000	0.000
SQRTCD4	0.000	0.000	0.000	0.000	1.000
LS0	0.000	0.000	0.000	0.000	0.000
LS1	0.000	0.000	0.000	0.000	0.000
LS2	0.000	0.000	0.000	0.000	0.000
CSEX	0.000	0.000	0.000	0.000	0.000
CAGE	0.000	0.000	0.000	0.000	0.000
BCD4SPX1	0.000	0.000	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

LAMBDA					
	LS0	LS1	LS2	CSEX	CAGE
CBVLM2	0.000	0.000	0.000	0.000	0.000
CBVLM3	0.000	0.000	0.000	0.000	0.000
CBVLM4	0.000	0.000	0.000	0.000	0.000
CBVLM5	0.000	0.000	0.000	0.000	0.000
CAZTBL	0.000	0.000	0.000	0.000	0.000
CEFVBL	0.000	0.000	0.000	0.000	0.000
SQRTCD4	0.000	0.000	0.000	0.000	0.000
LS0	1.000	0.000	0.000	0.000	0.000
LS1	0.000	1.000	0.000	0.000	0.000
LS2	0.000	0.000	1.000	0.000	0.000
CSEX	0.000	0.000	0.000	1.000	0.000
CAGE	0.000	0.000	0.000	0.000	1.000
BCD4SPX1	0.000	0.000	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000	0.000	0.000

BCD4SPX3	0.000	0.000	0.000	0.000	0.000
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LAMBDA

	BCD4SPX1	BCD4SPX2	BCD4SPX3
CBVLM2	0.000	0.000	0.000
CBVLM3	0.000	0.000	0.000
CBVLM4	0.000	0.000	0.000
CBVLM5	0.000	0.000	0.000
CAZTBL	0.000	0.000	0.000
CEFVBL	0.000	0.000	0.000
SQRTCD4	0.000	0.000	0.000
LS0	0.000	0.000	0.000
LS1	0.000	0.000	0.000
LS2	0.000	0.000	0.000
CSEX	0.000	0.000	0.000
CAGE	0.000	0.000	0.000
BCD4SPX1	1.000	0.000	0.000
BCD4SPX2	0.000	1.000	0.000
BCD4SPX3	0.000	0.000	1.000

THETA

	CBVLM2	CBVLM3	CBVLM4	CBVLM5	CAZTBL
CBVLM2	0.000				
CBVLM3	0.000	0.000			
CBVLM4	0.000	0.000	0.000		
CBVLM5	0.000	0.000	0.000	0.000	
CAZTBL	0.000	0.000	0.000	0.000	0.000
CEFVBL	0.000	0.000	0.000	0.000	0.000
SQRTCD4	0.000	0.000	0.000	0.000	0.000
LS0	0.000	0.000	0.000	0.000	0.000
LS1	0.000	0.000	0.000	0.000	0.000
LS2	0.000	0.000	0.000	0.000	0.000
CSEX	0.000	0.000	0.000	0.000	0.000
CAGE	0.000	0.000	0.000	0.000	0.000
BCD4SPX1	0.000	0.000	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

THETA

	CEFVBL	SQRTCD4	LS0	LS1	LS2
CEFVBL	0.000				
SQRTCD4	0.000	0.000			
LS0	0.000	0.000	0.000		
LS1	0.000	0.000	0.000	0.000	
LS2	0.000	0.000	0.000	0.000	0.000
CSEX	0.000	0.000	0.000	0.000	0.000
CAGE	0.000	0.000	0.000	0.000	0.000
BCD4SPX1	0.000	0.000	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

THETA

	CSEX	CAGE	BCD4SPX1	BCD4SPX2	BCD4SPX3
CSEX	0.000				
CAGE	0.000	0.000			

BCD4SPX1	0.000	0.000	0.000		
BCD4SPX2	0.000	0.000	0.000	0.000	
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

ALPHA					
	S0	S1	S2	CBVLM2	CBVLM3
1	0.000	0.000	0.000	0.000	0.000

ALPHA					
	CBVLM4	CBVLM5	CAZTBL	CEFVBL	SQRTCD4
1	0.000	0.000	0.000	0.000	0.000

ALPHA					
	LS0	LS1	LS2	CSEX	CAGE
1	0.000	0.000	0.000	0.000	0.000

ALPHA					
	BCD4SPX1	BCD4SPX2	BCD4SPX3		
1	0.000	0.000	0.000		

BETA					
	S0	S1	S2	CBVLM2	CBVLM3
S0	0.000	0.000	0.000	0.000	0.000
S1	0.000	0.000	0.000	0.000	0.000
S2	0.000	0.000	0.000	0.000	0.000
CBVLM2	0.000	0.000	0.000	0.000	0.000
CBVLM3	0.000	0.000	0.000	0.000	0.000
CBVLM4	0.000	0.000	0.000	0.000	0.000
CBVLM5	0.000	0.000	0.000	0.000	0.000
CAZTBL	0.000	0.000	0.000	0.000	0.000
CEFVBL	0.000	0.000	0.000	0.000	0.000
SQRTCD4	0.000	0.000	0.000	0.000	0.000
LS0	0.000	0.000	0.000	0.000	0.000
LS1	0.000	0.000	0.000	0.000	0.000
LS2	0.000	0.000	0.000	0.000	0.000
CSEX	0.000	0.000	0.000	0.000	0.000
CAGE	0.000	0.000	0.000	0.000	0.000
BCD4SPX1	0.000	0.000	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

BETA					
	CBVLM4	CBVLM5	CAZTBL	CEFVBL	SQRTCD4
S0	0.000	0.000	0.000	0.000	0.000
S1	0.000	0.000	0.000	0.000	0.000
S2	0.000	0.000	0.000	0.000	0.000
CBVLM2	0.000	0.000	0.000	0.000	0.000
CBVLM3	0.000	0.000	0.000	0.000	0.000
CBVLM4	0.000	0.000	0.000	0.000	0.000
CBVLM5	0.000	0.000	0.000	0.000	0.000
CAZTBL	0.000	0.000	0.000	0.000	0.000

CEFVBL	0.000	0.000	0.000	0.000	0.000
SQRTCD4	0.000	0.000	0.000	0.000	0.000
LS0	0.000	0.000	0.000	0.000	0.000
LS1	0.000	0.000	0.000	0.000	0.000
LS2	0.000	0.000	0.000	0.000	0.000
CSEX	0.000	0.000	0.000	0.000	0.000
CAGE	0.000	0.000	0.000	0.000	0.000
BCD4SPX1	0.000	0.000	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

BETA					
	LS0	LS1	LS2	CSEX	CAGE
S0	0.000	0.000	0.000	0.000	0.000
S1	0.000	0.000	0.000	0.000	0.000
S2	0.000	0.000	0.000	0.000	0.000
CBVLM2	0.000	0.000	0.000	0.000	0.000
CBVLM3	0.000	0.000	0.000	0.000	0.000
CBVLM4	0.000	0.000	0.000	0.000	0.000
CBVLM5	0.000	0.000	0.000	0.000	0.000
CAZTBL	0.000	0.000	0.000	0.000	0.000
CEFVBL	0.000	0.000	0.000	0.000	0.000
SQRTCD4	0.000	0.000	0.000	0.000	0.000
LS0	0.000	0.000	0.000	0.000	0.000
LS1	0.000	0.000	0.000	0.000	0.000
LS2	0.000	0.000	0.000	0.000	0.000
CSEX	0.000	0.000	0.000	0.000	0.000
CAGE	0.000	0.000	0.000	0.000	0.000
BCD4SPX1	0.000	0.000	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

BETA			
	BCD4SPX1	BCD4SPX2	BCD4SPX3
S0	0.000	0.000	0.000
S1	0.000	0.000	0.000
S2	0.000	0.000	0.000
CBVLM2	0.000	0.000	0.000
CBVLM3	0.000	0.000	0.000
CBVLM4	0.000	0.000	0.000
CBVLM5	0.000	0.000	0.000
CAZTBL	0.000	0.000	0.000
CEFVBL	0.000	0.000	0.000
SQRTCD4	0.000	0.000	0.000
LS0	0.000	0.000	0.000
LS1	0.000	0.000	0.000
LS2	0.000	0.000	0.000
CSEX	0.000	0.000	0.000
CAGE	0.000	0.000	0.000
BCD4SPX1	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000

PSI					
	S0	S1	S2	CBVLM2	CBVLM3
S0	1.000				
S1	0.000	1.000			

S2	0.000	0.000	1.000		
CBVLM2	0.000	0.000	0.000	0.069	
CBVLM3	0.000	0.000	0.000	0.000	0.105
CBVLM4	0.000	0.000	0.000	0.000	0.000
CBVLM5	0.000	0.000	0.000	0.000	0.000
CAZTBL	0.000	0.000	0.000	0.000	0.000
CEFVBL	0.000	0.000	0.000	0.000	0.000
SQRTCD4	0.000	0.000	0.000	0.000	0.000
LS0	0.000	0.000	0.000	0.000	0.000
LS1	0.000	0.000	0.000	0.000	0.000
LS2	0.000	0.000	0.000	0.000	0.000
CSEX	0.000	0.000	0.000	0.000	0.000
CAGE	0.000	0.000	0.000	0.000	0.000
BCD4SPX1	0.000	0.000	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

PSI

	<u>CBVLM4</u>	<u>CBVLM5</u>	<u>CAZTBL</u>	<u>CEFVBL</u>	<u>SQRTCD4</u>
CBVLM4	0.096				
CBVLM5	0.000	0.078			
CAZTBL	0.000	0.000	0.121		
CEFVBL	0.000	0.000	0.000	0.066	
SQRTCD4	0.000	0.000	0.000	0.000	12.769
LS0	0.000	0.000	0.000	0.000	0.000
LS1	0.000	0.000	0.000	0.000	0.000
LS2	0.000	0.000	0.000	0.000	0.000
CSEX	0.000	0.000	0.000	0.000	0.000
CAGE	0.000	0.000	0.000	0.000	0.000
BCD4SPX1	0.000	0.000	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

PSI

	<u>LS0</u>	<u>LS1</u>	<u>LS2</u>	<u>CSEX</u>	<u>CAGE</u>
LS0	0.000				
LS1	0.000	0.000			
LS2	0.000	0.000	0.000		
CSEX	0.000	0.000	0.000	0.075	
CAGE	0.000	0.000	0.000	0.000	47.314
BCD4SPX1	0.000	0.000	0.000	0.000	0.000
BCD4SPX2	0.000	0.000	0.000	0.000	0.000
BCD4SPX3	0.000	0.000	0.000	0.000	0.000

PSI

	<u>BCD4SPX1</u>	<u>BCD4SPX2</u>	<u>BCD4SPX3</u>
BCD4SPX1	5308.340		
BCD4SPX2	0.000	4598.894	
BCD4SPX3	0.000	0.000	592.398

STARTING VALUES FOR THE ADDITIONAL PARAMETERS

NEW/ADDITIONAL PARAMETERS

	<u>M111</u>	<u>M121</u>	<u>M141</u>	<u>M151</u>	<u>M161</u>

1	0.500	0.500	0.500	0.500	0.500
	NEW/ADDITIONAL M181	PARAMETERS M211	M221	M241	M251
1	0.500	0.500	0.500	0.500	0.500
	NEW/ADDITIONAL M261	PARAMETERS M281	M311	M321	M341
1	0.500	0.500	0.500	0.500	0.500
	NEW/ADDITIONAL M351	PARAMETERS M361	M381	M411	M421
1	0.500	0.500	0.500	0.500	0.500
	NEW/ADDITIONAL M441	PARAMETERS M451	M461	M481	M511
1	0.500	0.500	0.500	0.500	0.500
	NEW/ADDITIONAL M521	PARAMETERS M541	M551	M561	M581
1	0.500	0.500	0.500	0.500	0.500
	NEW/ADDITIONAL M112	PARAMETERS M122	M142	M152	M162
1	0.500	0.500	0.500	0.500	0.500
	NEW/ADDITIONAL M182	PARAMETERS M212	M222	M242	M252
1	0.500	0.500	0.500	0.500	0.500
	NEW/ADDITIONAL M262	PARAMETERS M282	M312	M322	M342
1	0.500	0.500	0.500	0.500	0.500
	NEW/ADDITIONAL M352	PARAMETERS M362	M382	M412	M422
1	0.500	0.500	0.500	0.500	0.500
	NEW/ADDITIONAL M442	PARAMETERS M452	M462	M482	M512
1	0.500	0.500	0.500	0.500	0.500



	NEW/ADDITIONAL M522	PARAMETERS M542	M552	M562	M582
1	0.500	0.500	0.500	0.500	0.500
	NEW/ADDITIONAL M113	PARAMETERS M123	M143	M153	M163
1	0.500	0.500	0.500	0.500	0.500
	NEW/ADDITIONAL M183	PARAMETERS M213	M223	M243	M253
1	0.500	0.500	0.500	0.500	0.500
	NEW/ADDITIONAL M263	PARAMETERS M283	M313	M323	M343
1	0.500	0.500	0.500	0.500	0.500
	NEW/ADDITIONAL M353	PARAMETERS M363	M383	M413	M423
1	0.500	0.500	0.500	0.500	0.500
	NEW/ADDITIONAL M443	PARAMETERS M453	M463	M483	M513
1	0.500	0.500	0.500	0.500	0.500
	NEW/ADDITIONAL M523	PARAMETERS M543	M553	M563	M583
1	0.500	0.500	0.500	0.500	0.500
	NEW/ADDITIONAL M111X	PARAMETERS M121X	M141X	M151X	M161X
1	0.500	0.500	0.500	0.500	0.500
	NEW/ADDITIONAL M181X	PARAMETERS M211X	M221X	M241X	M251X
1	0.500	0.500	0.500	0.500	0.500
	NEW/ADDITIONAL M261X	PARAMETERS M281X	M311X	M321X	M341X
1	0.500	0.500	0.500	0.500	0.500
	NEW/ADDITIONAL M351X	PARAMETERS M361X	M381X	M411X	M421X

1	0.500	0.500	0.500	0.500	0.500
	NEW/ADDITIONAL M441X	PARAMETERS M451X	M461X	M481X	M511X
1	0.500	0.500	0.500	0.500	0.500
	NEW/ADDITIONAL M521X	PARAMETERS M541X	M551X	M561X	M581X
1	0.500	0.500	0.500	0.500	0.500
	NEW/ADDITIONAL M112X	PARAMETERS M122X	M142X	M152X	M162X
1	0.500	0.500	0.500	0.500	0.500
	NEW/ADDITIONAL M182X	PARAMETERS M212X	M222X	M242X	M252X
1	0.500	0.500	0.500	0.500	0.500
	NEW/ADDITIONAL M262X	PARAMETERS M282X	M312X	M322X	M342X
1	0.500	0.500	0.500	0.500	0.500
	NEW/ADDITIONAL M352X	PARAMETERS M362X	M382X	M412X	M422X
1	0.500	0.500	0.500	0.500	0.500
	NEW/ADDITIONAL M442X	PARAMETERS M452X	M462X	M482X	M512X
1	0.500	0.500	0.500	0.500	0.500
	NEW/ADDITIONAL M522X	PARAMETERS M542X	M552X	M562X	M582X
1	0.500	0.500	0.500	0.500	0.500
	NEW/ADDITIONAL M113X	PARAMETERS M123X	M143X	M153X	M163X
1	0.500	0.500	0.500	0.500	0.500
	NEW/ADDITIONAL M183X	PARAMETERS M213X	M223X	M243X	M253X
1	0.500	0.500	0.500	0.500	0.500

	NEW/ADDITIONAL M263X	PARAMETERS M283X	M313X	M323X	M343X
1	0.500	0.500	0.500	0.500	0.500
	NEW/ADDITIONAL M353X	PARAMETERS M363X	M383X	M413X	M423X
1	0.500	0.500	0.500	0.500	0.500
	NEW/ADDITIONAL M443X	PARAMETERS M453X	M463X	M483X	M513X
1	0.500	0.500	0.500	0.500	0.500
	NEW/ADDITIONAL M523X	PARAMETERS M543X	M553X	M563X	M583X
1	0.500	0.500	0.500	0.500	0.500
	NEW/ADDITIONAL NS_1_25	PARAMETERS NS_1_50	NS_1_100	NS_1_150	NS_1_200
1	0.500	0.500	0.500	0.500	0.500
	NEW/ADDITIONAL NS_1_300	PARAMETERS NS_2_25	NS_2_50	NS_2_100	NS_2_150
1	0.500	0.500	0.500	0.500	0.500
	NEW/ADDITIONAL NS_2_200	PARAMETERS NS_2_300	NS_3_25	NS_3_50	NS_3_100
1	0.500	0.500	0.500	0.500	0.500
	NEW/ADDITIONAL NS_3_150	PARAMETERS NS_3_200	NS_3_300	NE_1_25	NE_1_50
1	0.500	0.500	0.500	0.500	0.500
	NEW/ADDITIONAL NE_1_100	PARAMETERS NE_1_150	NE_1_200	NE_1_300	NE_2_25
1	0.500	0.500	0.500	0.500	0.500
	NEW/ADDITIONAL NE_2_50	PARAMETERS NE_2_100	NE_2_150	NE_2_200	NE_2_300
1	0.500	0.500	0.500	0.500	0.500
	NEW/ADDITIONAL NE_3_25	PARAMETERS NE_3_50	NE_3_100	NE_3_150	NE_3_200

1	0.500	0.500	0.500	0.500	0.500
	NEW/ADDITIONAL PARAMETERS				
	NE_3_300	NW_1_25	NW_1_50	NW_1_100	NW_1_150
1	0.500	0.500	0.500	0.500	0.500
	NEW/ADDITIONAL PARAMETERS				
	NW_1_200	NW_1_300	NW_2_25	NW_2_50	NW_2_100
1	0.500	0.500	0.500	0.500	0.500
	NEW/ADDITIONAL PARAMETERS				
	NW_2_150	NW_2_200	NW_2_300	NW_3_25	NW_3_50
1	0.500	0.500	0.500	0.500	0.500
	NEW/ADDITIONAL PARAMETERS				
	NW_3_100	NW_3_150	NW_3_200	NW_3_300	NA_1_25
1	0.500	0.500	0.500	0.500	0.500
	NEW/ADDITIONAL PARAMETERS				
	NA_1_50	NA_1_100	NA_1_150	NA_1_200	NA_1_300
1	0.500	0.500	0.500	0.500	0.500
	NEW/ADDITIONAL PARAMETERS				
	NA_2_25	NA_2_50	NA_2_100	NA_2_150	NA_2_200
1	0.500	0.500	0.500	0.500	0.500
	NEW/ADDITIONAL PARAMETERS				
	NA_2_300	NA_3_25	NA_3_50	NA_3_100	NA_3_150
1	0.500	0.500	0.500	0.500	0.500
	NEW/ADDITIONAL PARAMETERS				
	NA_3_200	NA_3_300	SE_1_25	SE_1_50	SE_1_100
1	0.500	0.500	0.500	0.500	0.500
	NEW/ADDITIONAL PARAMETERS				
	SE_1_150	SE_1_200	SE_1_300	SE_2_25	SE_2_50
1	0.500	0.500	0.500	0.500	0.500
	NEW/ADDITIONAL PARAMETERS				
	SE_2_100	SE_2_150	SE_2_200	SE_2_300	SE_3_25
1	0.500	0.500	0.500	0.500	0.500

	NEW/ADDITIONAL SE_3_50	PARAMETERS SE_3_100	SE_3_150	SE_3_200	SE_3_300
1	0.500	0.500	0.500	0.500	0.500
	NEW/ADDITIONAL SW_1_25	PARAMETERS SW_1_50	SW_1_100	SW_1_150	SW_1_200
1	0.500	0.500	0.500	0.500	0.500
	NEW/ADDITIONAL SW_1_300	PARAMETERS SW_2_25	SW_2_50	SW_2_100	SW_2_150
1	0.500	0.500	0.500	0.500	0.500
	NEW/ADDITIONAL SW_2_200	PARAMETERS SW_2_300	SW_3_25	SW_3_50	SW_3_100
1	0.500	0.500	0.500	0.500	0.500
	NEW/ADDITIONAL SW_3_150	PARAMETERS SW_3_200	SW_3_300	SA_1_25	SA_1_50
1	0.500	0.500	0.500	0.500	0.500
	NEW/ADDITIONAL SA_1_100	PARAMETERS SA_1_150	SA_1_200	SA_1_300	SA_2_25
1	0.500	0.500	0.500	0.500	0.500
	NEW/ADDITIONAL SA_2_50	PARAMETERS SA_2_100	SA_2_150	SA_2_200	SA_2_300
1	0.500	0.500	0.500	0.500	0.500
	NEW/ADDITIONAL SA_3_25	PARAMETERS SA_3_50	SA_3_100	SA_3_150	SA_3_200
1	0.500	0.500	0.500	0.500	0.500
	NEW/ADDITIONAL SA_3_300	PARAMETERS EW_1_25	EW_1_50	EW_1_100	EW_1_150
1	0.500	0.500	0.500	0.500	0.500
	NEW/ADDITIONAL EW_1_200	PARAMETERS EW_1_300	EW_2_25	EW_2_50	EW_2_100
1	0.500	0.500	0.500	0.500	0.500
	NEW/ADDITIONAL EW_2_150	PARAMETERS EW_2_200	EW_2_300	EW_3_25	EW_3_50

1	0.500	0.500	0.500	0.500	0.500
	NEW/ADDITIONAL PARAMETERS				
	EW_3_100	EW_3_150	EW_3_200	EW_3_300	EA_1_25
1	0.500	0.500	0.500	0.500	0.500
	NEW/ADDITIONAL PARAMETERS				
	EA_1_50	EA_1_100	EA_1_150	EA_1_200	EA_1_300
1	0.500	0.500	0.500	0.500	0.500
	NEW/ADDITIONAL PARAMETERS				
	EA_2_25	EA_2_50	EA_2_100	EA_2_150	EA_2_200
1	0.500	0.500	0.500	0.500	0.500
	NEW/ADDITIONAL PARAMETERS				
	EA_2_300	EA_3_25	EA_3_50	EA_3_100	EA_3_150
1	0.500	0.500	0.500	0.500	0.500
	NEW/ADDITIONAL PARAMETERS				
	EA_3_200	EA_3_300	WA_1_25	WA_1_50	WA_1_100
1	0.500	0.500	0.500	0.500	0.500
	NEW/ADDITIONAL PARAMETERS				
	WA_1_150	WA_1_200	WA_1_300	WA_2_25	WA_2_50
1	0.500	0.500	0.500	0.500	0.500
	NEW/ADDITIONAL PARAMETERS				
	WA_2_100	WA_2_150	WA_2_200	WA_2_300	WA_3_25
1	0.500	0.500	0.500	0.500	0.500
	NEW/ADDITIONAL PARAMETERS				
	WA_3_50	WA_3_100	WA_3_150	WA_3_200	WA_3_300
1	0.500	0.500	0.500	0.500	0.500
	NEW/ADDITIONAL PARAMETERS				
	U1	U2	U3	U4	U5
1	0.500	0.500	0.500	0.500	0.500

Beginning Time: 08:02:45  
 Ending Time: 08:52:17  
 Elapsed Time: 00:49:32

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## **Example 4: Multiple Imputation of Clustered Ordered Categorical Data**

1. Patterns.out: Basic descriptive analysis of South African NA-Accord subgroup with missing data patterns
2. Sqrt\_Group4\_Imputations\_Basic.out: Mplus 6 Output for Direct ML Multiple Groups Analysis with Robust Standard Errors



Mplus VERSION 6.1  
MUTHEN & MUTHEN  
11/09/2010 12:59 PM

INPUT INSTRUCTIONS

TITLE: Square root-transformed CD4 - Imputation of Group 4 data;

DATA:  
FILE=H:\My Documents\Transfer\X-side Missingness talk\Imputation Example\sr4\_only.txt ;

VARIABLE:  
NAMES ARE aztbl bvlvc efvbl csex cage sqrtcd4 ls0 ls1 ls2 idno  
bcd4spx1 bcd4spx2 bcd4spx3;  
USEVARIABLES ARE aztbl bvlvc efvbl csex cage sqrtcd4 ls0 ls1 ls2  
bcd4spx1 bcd4spx2 bcd4spx3;  
MISSING ARE ALL (-999) ;  
WITHIN = ls0 ls1 ls2 ;  
BETWEEN = csex cage bcd4spx1 bcd4spx2 bcd4spx3  
bvlvc aztbl efvbl ;  
CLUSTER = idno ;  
AUXILIARY ARE sqrtcd4 ;  
CATEGORICAL ARE bvlvc aztbl efvbl ;

ANALYSIS:  
TYPE = TWOLEVEL BASIC ;  
PROCESSORS = 4 ;

OUTPUT:  
TECH8 PATTERNS ;

INPUT READING TERMINATED NORMALLY

Square root-transformed CD4 - Imputation of Group 4 data;

SUMMARY OF ANALYSIS

Number of groups	1
Number of observations	65401
Number of dependent variables	12
Number of independent variables	0
Number of continuous latent variables	0

Observed dependent variables

Continuous					
CSEX	CAGE	BCD4SPX1	BCD4SPX2	BCD4SPX3	SQRTCD4
LS0	LS1	LS2			

Binary and ordered categorical (ordinal)		
AZTBL	BVLVC	EFVBL

Variables with special functions

Cluster variable	IDNO
Within variables	
LS0	LS1 LS2

```

Between variables
CSEX          CAGE          BCD4SPX1    BCD4SPX2    BCD4SPX3    BVLVC
AZTBL        EFVBL

Estimator                      MLR
Information matrix              OBSERVED
Optimization Specifications for the Quasi-Newton Algorithm for
Continuous Outcomes
  Maximum number of iterations          100
  Convergence criterion                0.100D-05
Optimization Specifications for the EM Algorithm
  Maximum number of iterations          500
  Convergence criteria
    Loglikelihood change                0.100D-02
    Relative loglikelihood change        0.100D-05
    Derivative                          0.100D-02
Optimization Specifications for the M step of the EM Algorithm for
Categorical Latent variables
  Number of M step iterations           1
  M step convergence criterion          0.100D-02
  Basis for M step termination          ITERATION
Optimization Specifications for the M step of the EM Algorithm for
Censored, Binary or Ordered Categorical (Ordinal), Unordered
Categorical (Nominal) and Count Outcomes
  Number of M step iterations           1
  M step convergence criterion          0.100D-02
  Basis for M step termination          ITERATION
  Maximum value for logit thresholds    15
  Minimum value for logit thresholds    -15
  Minimum expected cell size for chi-square 0.100D-01
Maximum number of iterations for H1      2000
Convergence criterion for H1            0.100D-03
Optimization algorithm                  EMA
Integration Specifications
  Type                                  STANDARD
  Number of integration points           15
  Dimensions of numerical integration     0
  Adaptive quadrature                    ON
Link                                     LOGIT
Cholesky                                 OFF

```

```

Input data file(s)
  H:\My Documents\Transfer\X-side Missingness talk\Imputation Example\sr4_only.t
Input data format  FREE

```

SUMMARY OF DATA

```

Number of missing data patterns          7
Number of clusters                       20347

```

```

Size (s)    Cluster ID with Size s
1           19 35 64 116 154 183 185 730 742 849 865 978 979 999
           1039 1053 1063 1068 1088 1099 1131 1154 1203 1206 1219
           1226 1229 1240 1285 1303 1304 1316 1321 1326 1372 1405
           1410 1411 1420 1458 1498 1506 1517 1530 1556 1583 1588
           1591 1597 1603 1616 1625 1632 1634 1645 1646 1660 1665
           1688 1698 1704 1730 1738 1739 1751 1752 1757 1761 1768
           1770 1778 1797 1800 1820 1824 1827 1847 1865 1871 1872
           1874 1887 1891 1904 1907 1911 1918 1922 1928 1954 1956
           1962 1975 1977 1983 1989 1994 1996 2000 2024 2030 2043

```

2056 2078 2087 2109 2110 2155 2164 2173 2177 2180 2184  
2187 2241 2248 2253 2262 2269 2286 2290 2291 2314 2315  
2317 2322 2345 2760 3241 3251 3287 3291 3297 3306 3308  
3317 3322 3326 3576 3580 3584 3585 3587 3596 3630 3633  
3636 3642 3647 3650 3651 4377 4390 4394 4398 4403 4410  
4412 4413 4414 4415 4461 4585 4790 4791 4797 4811 4818  
4833 4840 4859 4867 4874 4888 4901 4903 5130 5132 5150  
5154 5155 5170 5315 5501 5508 5510 5514 5517 5529 5537  
5540 5671 5673 5675 5690 5691 5703 5709 5717 5718 5719  
5726 5728 5821 5825 5957 5958 5965 5973 5980 5987 5996  
5998 6000 6006 6521 6539 6542 6543 6547 6555 6562 6572  
6573 6579 6582 6637 6934 6938 6942 6955 6970 6971 6979  
6986 6992 6994 6997 6998 7002 7007 7031 7048 7049 7070  
7081 7088 7099 7138 7142 7187 7194 7195 7198 7206 7211  
7216 7217 7233 7246 7253 7255 7260 7264 7270 7272 7295  
7305 7308 7310 7320 7321 7327 7337 7394 7395 7397 7408  
7410 7415 7417 7421 7423 7430 7438 7446 7448 7452 7453  
7459 7463 7478 7479 7482 7486 7490 7491 7493 7497 7501  
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7550 7554 7556 7557 7558 7563 7564 7567 7568 7570 7573  
7575 7577 7578 7579 7580 7581 7582 7583 7586 7587 7588  
7589 7590 7592 7594 7595 7599 7600 7601 7602 7603 7604  
7607 7608 7609 7610 7612 7613 7614 7617 7618 7620 7623  
7624 7625 7626 7627 7628 7631 7632 7633 7635 7637 7638  
7639 7642 7643 7644 7645 7646 7649 7650 7651 7652 7653  
7654 7655 7656 7659 7661 7662 7664 7665 7666 7667 7670  
7671 7672 7675 7677 7678 7679 7680 7681 7682 7684 7686  
7687 7689 7690 7691 7692 7693 7694 7697 7698 7700 7706  
7707 7708 7709 7710 7712 7715 7726 7732 7739 7743 7749  
7759 7767 7769 7795 7807 7823 7825 7856 7859 7876 7906  
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7987 7999 8004 8005 8010 8012 8017 8027 8037 8039 8042  
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9633 7764 7765 9641 13366 7766 1991 14026 1299 1993  
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9666 9670 738 3318 1647 7783 1305 7785 165 1309 741  
2002 114 7235 2004 12138 1657 7801 7802 15365 7805 7806  
3328 7808 7809 12147 7240 7812 7814 834 2008 10325 1314  
7820 843 2012 7824 1662 14726 7826 1070 2015 844  
7789 1023 1111 1024 2052 1113 1392 7023 7271 2055 2271  
143 2057 2274 1115 1873 1566 2061 9539 798 1707 12904  
1397 1878 184 1880 82 1233 1401 959 3612 5966 1236 2074  
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2302 853 95 9603 4892 2305 12343 1412 7858 1726 7861  
1587 1252 1414 2311 1590 1732 1416 1128 1735 7874 1129  
9630 1908 2319 169 1043 9638 2102 132 107 7888 1046  
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1746 12982 1464 9669 2113 13292 809 2335 2115 1143 2119  
1049 7103 1606 1754 11486 1274 12997 193 7924 1609 6549  
1758 121 7930 1760 1934 1052 7615 1936 13317 1281 10321  
1613 15246 7941 1764 1614 2137 7370 2138 9060 15579  
2139 1615 123 15257 4408 7953 13025 7954 1054 1944 813  
1946 1947 7962 814 1059 15596 7135 1951 1060 24 13347  
817 7641 1293 10351 3234 2157 1626 1627 14322 2161 1779  
1297 5401 759 1630 7992 7151 7995 1300 2167 876 986  
6 1787 991 821 1308 1072 1172 13067 880 8015 1641 1312  
9380 8018 156 8020 886 5505 1798 4593 1799 13708 1510  
1315 2186 997 2188 8038 1318 1985 1649 1806 13720 1182  
2194 10402 1808 1809 3276 1811 7439 14696 708 1653 1185  
1655 15021 888 15346 13104 1323 33 2206 10417 1819 15029  
6957 1082 14710 1336 1083 2211 1823 827 1192 2006 1003  
1527 2219 13431 1350 1668 7721 2011 1086 828 2225 1353  
3305 7730 793 832 710 11922 1675 837 1840 2021 1368  
1843 14742 10451 7742 15067 1844 7745 7746 9451 11634  
841 1096 2240 11045 932 935 1849 1373 1102 1852 7758

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1546 937 2036 2037 11057 11058 2251 2252 1548 113 10476
182 13482 1551 7770 14777 9491 7251 1552 11070 2258
7776 3581 1022 1381 1217 4844 1109 4846 1557
11 15259 1037 9565 11969 2160 96 1839 14389 109 7468 7731
2049 1302 1842 14057 969 14655 14144 838 1651 1126 12214
1563 1004 929 13822 85 10458 2234 59 7911 126 2118 28
936 2121 1661 846 10612 1574 1575 1015 68 942 157 14684
13750 1716 2073 1915 1097 1098 69 14093 1973 1100 1057
983 985 10415 9640 1061 951 10 14 1065 1028 14618 12101
5982 8051 13205 106 164 7787 4821 1032 11657 7793 2152
749 11661 11884 829 10505 16 1834 1295 167
12 1949 1012 1921 12230 938 55 1325 14520 1194 993 1765
868 1017 66 819 2083 13789 2116 12284 1490 83 13572
47 1116 859 1967 22 862 14761 1884 2093 12335 13709
835 10435 12068 11455 9453 864 881 815 965 1677 884
79
13 15 13743 14819 1386 12317 12244 10367 958 850 1077 11915
870 2149 950 149 63 953 14104 13568 12238 12222 923
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14 13784 12 13573 13819 13759 10520 7803 13701 23749 14345
15 13799 13566 7 13794 1025 25647 1620 11094 14112 12850
16 14792 13764 13569 11016 25959 12846
17 11137 13707 13771 13728
18 12265
19 13801 13700 13809
21 13731 13729
22 13770
23 13742

```

SUMMARY OF MISSING DATA PATTERNS

MISSING DATA PATTERNS (x = not missing) FOR WITHIN

	1	2	3	4	5	6	7
AZTBL	x		x		x	x	
BVLVC		x	x		x		
EFVBL	x		x				
CSEX	x	x	x	x	x	x	x
CAGE	x	x	x	x	x	x	x
BCD4SPX1	x	x	x	x	x	x	x
BCD4SPX2	x	x	x	x	x	x	x
BCD4SPX3	x	x	x	x	x	x	x
SQRTCD4	x	x	x	x	x	x	
LS0	x	x	x	x	x	x	x
LS1	x	x	x	x	x	x	x
LS2	x	x	x	x	x	x	x

MISSING DATA PATTERN FREQUENCIES FOR WITHIN

Pattern	Frequency	Pattern	Frequency	Pattern	Frequency
1	21137	4	305	7	24
2	2547	5	202		
3	41185	6	1		

MISSING DATA PATTERNS FOR U (x = not missing) FOR WITHIN

	1	2	3	4	5	6
AZTBL	x		x		x	x

```

BVLVC      x  x  x
EFVBL      x  x
    
```

MISSING DATA PATTERN FREQUENCIES FOR U FOR WITHIN

Pattern	Frequency	Pattern	Frequency	Pattern	Frequency
1	21137	3	41185	5	202
2	2547	4	329	6	1

MISSING DATA PATTERNS FOR Y (x = not missing) FOR WITHIN

```

      1  2
CSEX  x  x
CAGE  x  x
BCD4SPX1 x  x
BCD4SPX2 x  x
BCD4SPX3 x  x
SQRTCD4 x
LS0   x  x
LS1   x  x
LS2   x  x
    
```

MISSING DATA PATTERN FREQUENCIES FOR Y FOR WITHIN

Pattern	Frequency	Pattern	Frequency
1	65377	2	24

COVARIANCE COVERAGE OF DATA

Minimum covariance coverage value 0.100

PROPORTION OF DATA PRESENT

	Covariance Coverage				
	AZTBL	BVLVC	EFVBL	CSEX	CAGE
AZTBL	0.956				
BVLVC	0.633	0.672			
EFVBL	0.953	0.630	0.953		
CSEX	0.956	0.672	0.953	1.000	
CAGE	0.956	0.672	0.953	1.000	1.000
BCD4SPX1	0.956	0.672	0.953	1.000	1.000
BCD4SPX2	0.956	0.672	0.953	1.000	1.000
BCD4SPX3	0.956	0.672	0.953	1.000	1.000
SQRTCD4	0.956	0.672	0.953	1.000	1.000
LS0	0.956	0.672	0.953	1.000	1.000
LS1	0.956	0.672	0.953	1.000	1.000
LS2	0.956	0.672	0.953	1.000	1.000

	Covariance Coverage				
	BCD4SPX1	BCD4SPX2	BCD4SPX3	SQRTCD4	LS0
BCD4SPX1	1.000				
BCD4SPX2	1.000	1.000			
BCD4SPX3	1.000	1.000	1.000		
SQRTCD4	1.000	1.000	1.000	1.000	

LS0	1.000	1.000	1.000	1.000	1.000
LS1	1.000	1.000	1.000	1.000	1.000
LS2	1.000	1.000	1.000	1.000	1.000

Covariance Coverage

	LS1	LS2
LS1	1.000	
LS2	1.000	1.000

PROPORTION OF DATA PRESENT FOR U

Covariance Coverage

	AZTBL	BVLVC	EFVBL
AZTBL	0.956		
BVLVC	0.633	0.672	
EFVBL	0.953	0.630	0.953

PROPORTION OF DATA PRESENT FOR Y

Covariance Coverage

	CSEX	CAGE	BCD4SPX1	BCD4SPX2	BCD4SPX3
CSEX	1.000				
CAGE	1.000	1.000			
BCD4SPX1	1.000	1.000	1.000		
BCD4SPX2	1.000	1.000	1.000	1.000	
BCD4SPX3	1.000	1.000	1.000	1.000	1.000
SQRTCD4	1.000	1.000	1.000	1.000	1.000
LS0	1.000	1.000	1.000	1.000	1.000
LS1	1.000	1.000	1.000	1.000	1.000
LS2	1.000	1.000	1.000	1.000	1.000

Covariance Coverage

	SQRTCD4	LS0	LS1	LS2
SQRTCD4	1.000			
LS0	1.000	1.000		
LS1	1.000	1.000	1.000	
LS2	1.000	1.000	1.000	1.000

UNIVARIATE PROPORTIONS AND COUNTS FOR CATEGORICAL VARIABLES

AZTBL		
Category 1	0.850	16820.000
Category 2	0.150	2972.000
BVLVC		
Category 1	0.195	2384.000
Category 2	0.174	2130.000
Category 3	0.245	2988.000
Category 4	0.205	2506.000
Category 5	0.180	2202.000
EFVBL		
Category 1	0.314	6158.000
Category 2	0.686	13482.000

RESULTS FOR BASIC ANALYSIS

ESTIMATED SAMPLE STATISTICS

	Means				
	CSEX	CAGE	BCD4SPX1	BCD4SPX2	BCD4SPX3
1	-0.081	-0.046	108.839	34.023	8.038

	Means			
	SQRTCD4	LS0	LS1	LS2
1	17.004	-0.106	4.952	3.607

	Covariances				
	CSEX	CAGE	BCD4SPX1	BCD4SPX2	BCD4SPX3
CSEX	0.221				
CAGE	0.893	72.745			
BCD4SPX1	-3.003	-4.306	5208.984		
BCD4SPX2	-1.654	-11.087	3208.946	2516.936	
BCD4SPX3	-0.467	-4.178	937.051	808.478	269.536
SQRTCD4	-0.345	-5.850	135.998	82.147	23.806
LS0	0.001	0.007	-0.242	-0.368	-0.136
LS1	0.002	-0.782	-0.201	-0.630	-0.188
LS2	-0.004	-1.745	-7.154	-5.454	-1.625

	Covariances			
	SQRTCD4	LS0	LS1	LS2
SQRTCD4	21.853			
LS0	0.331	0.127		
LS1	6.035	0.523	10.664	
LS2	10.828	0.381	10.993	35.612

	Correlations				
	CSEX	CAGE	BCD4SPX1	BCD4SPX2	BCD4SPX3
CSEX	1.000				
CAGE	0.222	1.000			
BCD4SPX1	-0.088	-0.007	1.000		
BCD4SPX2	-0.070	-0.026	0.886	1.000	
BCD4SPX3	-0.060	-0.030	0.791	0.982	1.000
SQRTCD4	-0.157	-0.147	0.403	0.350	0.310
LS0	0.003	0.002	-0.009	-0.021	-0.023
LS1	0.001	-0.028	-0.001	-0.004	-0.004
LS2	-0.002	-0.034	-0.017	-0.018	-0.017

	Correlations			
	SQRTCD4	LS0	LS1	LS2



SQRTCD4	1.000			
LS0	0.198	1.000		
LS1	0.395	0.450	1.000	
LS2	0.388	0.179	0.564	1.000

MAXIMUM LOG-LIKELIHOOD VALUE FOR THE UNRESTRICTED (H1) MODEL IS -1623036.633

TECHNICAL 8 OUTPUT

Beginning Time: 12:59:43  
Ending Time: 13:00:14  
Elapsed Time: 00:00:31

MUTHEN & MUTHEN  
3463 Stoner Ave.  
Los Angeles, CA 90066

Tel: (310) 391-9971  
Fax: (310) 391-8971  
Web: [www.StatModel.com](http://www.StatModel.com)  
Support: [Support@StatModel.com](mailto:Support@StatModel.com)

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Mplus VERSION 6.1  
MUTHEN & MUTHEN  
11/09/2010 12:17 PM

INPUT INSTRUCTIONS

TITLE: Square root-transformed CD4 - Imputation of Group 4 data;

DATA:  
FILE=H:\My Documents\Transfer\X-side Missingness talk\Imputation Example\sr4\_only.txt ;

VARIABLE:  
NAMES ARE aztbl bvlvc efvbl csex cage sqrtcd4 ls0 ls1 ls2 idno  
bcd4spx1 bcd4spx2 bcd4spx3;  
USEVARIABLES ARE aztbl bvlvc efvbl csex cage sqrtcd4 ls0 ls1 ls2  
bcd4spx1 bcd4spx2 bcd4spx3;  
MISSING ARE ALL (-999) ;  
WITHIN = ls0 ls1 ls2 ;  
BETWEEN = csex cage bcd4spx1 bcd4spx2 bcd4spx3  
bvlvc aztbl efvbl ;  
CLUSTER = idno ;  
AUXILIARY ARE sqrtcd4 ;  
CATEGORICAL ARE bvlvc aztbl efvbl ;

ANALYSIS:  
TYPE = TWOLEVEL BASIC ;  
PROCESSORS = 4 ;

DATA IMPUTATION:  
IMPUTE = bvlvc (c) efvbl (c) aztbl (c) ;  
NDATASETS = 11 ;  
SAVE = Basic\_Group\_SA\_\*.txt ;

OUTPUT:  
TECH8 ;

INPUT READING TERMINATED NORMALLY

Square root-transformed CD4 - Imputation of Group 4 data;

SUMMARY OF ANALYSIS

Number of groups	1				
Average number of observations	65401				
Number of replications					
Requested	11				
Completed	11				
Number of dependent variables	12				
Number of independent variables	0				
Number of continuous latent variables	0				
Observed dependent variables					
Continuous					
CSEX	CAGE	BCD4SPX1	BCD4SPX2	BCD4SPX3	SQRTCD4
LS0	LS1	LS2			



```
Maximum number of iterations          50000
K-th iteration used for thinning       1
Specifications for Data Imputation
Number of imputed data sets           11
H1 imputation model type              COVARIANCE
Iteration intervals for thinning       100
Cholesky                               OFF
```

Input data file(s)

```
H:\My Documents\Transfer\X-side Missingness talk\Imputation Example\sr4_only.t
Input data format  FREE
```

SUMMARY OF DATA FOR THE FIRST DATA SET

```
Number of missing data patterns      2
Number of clusters                   20347
```

Size (s) Cluster ID with Size s

```
1 19 35 64 116 154 183 185 730 742 849 865 978 979 999
1039 1053 1063 1068 1088 1099 1131 1154 1203 1206 1219
1226 1229 1240 1285 1303 1304 1316 1321 1326 1372 1405
1410 1411 1420 1458 1498 1506 1517 1530 1556 1583 1588
1591 1597 1603 1616 1625 1632 1634 1645 1646 1660 1665
1688 1698 1704 1730 1738 1739 1751 1752 1757 1761 1768
1770 1778 1797 1800 1820 1824 1827 1847 1865 1871 1872
1874 1887 1891 1904 1907 1911 1918 1922 1928 1954 1956
1962 1975 1977 1983 1989 1994 1996 2000 2024 2030 2043
2056 2078 2087 2109 2110 2155 2164 2173 2177 2180 2184
2187 2241 2248 2253 2262 2269 2286 2290 2291 2314 2315
2317 2322 2345 2760 3241 3251 3287 3291 3297 3306 3308
3317 3322 3326 3576 3580 3584 3585 3587 3596 3630 3633
3636 3642 3647 3650 3651 4377 4390 4394 4398 4403 4410
4412 4413 4414 4415 4461 4585 4790 4791 4797 4811 4818
4833 4840 4859 4867 4874 4888 4901 4903 5130 5132 5150
5154 5155 5170 5315 5501 5508 5510 5514 5517 5529 5537
5540 5671 5673 5675 5690 5691 5703 5709 5717 5718 5719
5726 5728 5821 5825 5957 5958 5965 5973 5980 5987 5996
5998 6000 6006 6521 6539 6542 6543 6547 6555 6562 6572
6573 6579 6582 6637 6934 6938 6942 6955 6970 6971 6979
6986 6992 6994 6997 6998 7002 7007 7031 7048 7049 7070
7081 7088 7099 7138 7142 7187 7194 7195 7198 7206 7211
7216 7217 7233 7246 7253 7255 7260 7264 7270 7272 7295
7305 7308 7310 7320 7321 7327 7337 7394 7395 7397 7408
7410 7415 7417 7421 7423 7430 7438 7446 7448 7452 7453
7459 7463 7478 7479 7482 7486 7490 7491 7493 7497 7501
7510 7514 7517 7520 7527 7529 7536 7537 7538 7539 7542
7550 7554 7556 7557 7558 7563 7564 7567 7568 7570 7573
7575 7577 7578 7579 7580 7581 7582 7583 7586 7587 7588
7589 7590 7592 7594 7595 7599 7600 7601 7602 7603 7604
7607 7608 7609 7610 7612 7613 7614 7617 7618 7620 7623
7624 7625 7626 7627 7628 7631 7632 7633 7635 7637 7638
7639 7642 7643 7644 7645 7646 7649 7650 7651 7652 7653
7654 7655 7656 7659 7661 7662 7664 7665 7666 7667 7670
7671 7672 7675 7677 7678 7679 7680 7681 7682 7684 7686
7687 7689 7690 7691 7692 7693 7694 7697 7698 7700 7706
7707 7708 7709 7710 7712 7715 7726 7732 7739 7743 7749
7759 7767 7769 7795 7807 7823 7825 7856 7859 7876 7906
7912 7925 7931 7944 7949 7955 7963 7968 7976 7982 7985
7987 7999 8004 8005 8010 8012 8017 8027 8037 8039 8042
8050 8053 8054 8056 8057 8061 8063 8064 8065 8066 8067
8070 8071 8073 8074 8075 8076 8077 8078 8081 8083 8084
```

8089 8090 8092 8094 8095 8097 8101 8106 8108 8110 8111  
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8138 8139 8141 8142 8143 8150 8151 8152 8153 8157 8158  
8160 8162 8163 8165 8168 8170 8171 8172 8173 8174 8175  
8177 8178 8180 8181 8182 8183 8185 8188 8190 8191 8192  
8193 8195 8197 8199 8201 8202 8205 8206 8208 8209 8210  
8211 8214 8215 8217 8223 8224 8226 8227 8230 8232 8234  
8236 8237 8240 8245 8249 8250 8252 8253 8259 8261 8264  
8268 8270 8272 8273 8274 8275 8278 8280 8283 8284 8285  
8288 8289 8294 8296 8298 8299 8300 8302 8304 8306 8307  
8316 8323 8324 8326 8327 8331 8332 8334 8336 8337 8338  
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8383 8384 8385 8386 8387 8389 8390 8391 8394 8395 8402  
8403 8408 8409 8410 8414 8415 8416 8417 8422 8423 8424  
8425 8428 8431 8433 8435 8441 8442 8443 8444 8445 8447  
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8515 8516 8518 8519 8520 8521 8522 8523 8525 8529 8530  
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8558 8559 8562 8564 8565 8567 8568 8570 8571 8572 8573  
8576 8577 8578 8581 8583 8584 8586 8588 8589 8590 8593  
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8635 8636 8637 8638 8639 8640 8646 8647 8649 8651 8652  
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8671 8672 8673 8674 8676 8677 8678 8679 8680 8681 8682  
8683 8684 8685 8688 8694 8696 8697 8699 8700 8702 8703  
8705 8706 8707 8708 8709 8710 8711 8713 8715 8716 8722  
8723 8726 8727 8728 8729 8733 8740 8741 8743 8744 8745  
8747 8754 8757 8760 8761 8763 8764 8766 8767 8768 8772  
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8788 8789 8796 8797 8798 8799 8800 8805 8807 8808 8809  
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8837 8838 8839 8840 8841 8842 8843 8844 8845 8846 8849  
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8895 8896 8897 8898 8903 8904 8905 8906 8907 8913 8914  
8916 8918 8925 8926 8927 8929 8930 8931 8933 8934 8935  
8936 8937 8939 8941 8942 8943 8945 8949 8950 8951 8952  
8957 8958 8959 8960 8961 8963 8966 8969 8970 8971 8973  
8974 8975 8976 8977 8980 8982 8983 8984 8986 8987 8989  
8991 8993 8994 8997 8998 8999 9000 9003 9004 9006 9007  
9008 9009 9010 9012 9013 9014 9015 9016 9018 9019 9020  
9022 9024 9025 9026 9027 9030 9031 9032 9034 9035 9038  
9040 9042 9043 9046 9049 9050 9054 9056 9062 9065 9066  
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9202 9203 9206 9207 9208 9209 9210 9211 9216 9217 9218  
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9344 9346 9348 9349 9350 9351 9353 9354 9356 9358 9360

9361 9363 9364 9366 9367 9369 9370 9372 9374 9375 9379  
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1349 1352 131 3242 863 18553 23025 3246 7947 9059 2141  
12814 4614 3250 10381 2142 1045 2145 2150 3256 22241  
7964 7967 1749 24678 1378 13153 7970 17466 1924 1183

8

9

1047 4796 7979 12199 11882 1383 783 1759 41 14910 18586  
5702 7990 11890 15280 10405 3268 7997 4803 23474 3269  
3270 12215 3271 21881 869 18600 734 3275 736 8011 11903  
3278 3279 1598 1942 26 25137 3283 2182 8028 3286 163  
3288 12237 1952 887 4826 8041 3292 11616 3293  
7831 2017 71 7834 2019 7836 1322 72 7839 2023 12174  
7842 14744 15402 7843 7844 3589 12179 1669 7847 7261  
7853 7854 5725 14105 2025 2027 1670 5729 2029 1076 1672  
7867 848 1338 14767 747 7872 7875 2035 3601 14773 1081  
1679 1680 7883 7279 14127 3605 7891 7281 7896 1681 2042  
1351 1683 7902 12216 1684 1084 2047 1354 1355 7910 1357  
7916 3617 7918 7919 1689 1365 1691 1369 10403 1370 2060  
2062 15466 1694 7936 852 73 7940 7942 2066 7945 15475  
3631 18736 10418 12250 1374 12252 1699 1700 12255 15484  
7951 1701 12258 1089 7956 3637 23656 43 20 2077 5988  
3641 176 861 15498 11038 2080 11647 7972 2081 3646 1384  
2084 1709 1710 1711 1712 7984 7329 8566 2089 1713 6004  
1714 32 4379 8001 4380 1718 7338 1101 1103 10462 2097  
4385 2098 8016 7345 1390 23042 6538 2100 1723 2103 7351  
2104 127 2106 2107 1725 1107 2111 866 22402 2114 8045  
51 2120 7364 54 56 6556 2124 2125 4406 8059 1734 2127  
1404 14249 2129 6564 12337 88 2131 1406 874 2134 2135  
875 1741 1742 1120 1121 2144 1413 2147 2148 1417 2151  
2153 4576 761 21 883 1755 91 2162 6591 4583 1457 889  
7409 1133 2166 12988 2168 6633 7414 2169 2170 921 4592  
7419 2172 1465 1135 2175 1767 922 1769 7428 2179 8665  
1477 2181 4604 9220 93 7434 2183 766 4608 1773 7440  
1774 1775 1776 2191 7445 1480 190 1484 2196 930 6952  
931 1783 941 1489 1491 191 4792 2204 1493 949 2209 2210  
2212 1495 13045 1496 2216 137 1794 770 771 2222 1157  
10596 7477 2224 8159 1501 8161 1802 4814 1803 6981 13064  
13702 7484 2229 2230 13069 196 2232 4820 1503 6988 1504  
1812 1813 2238 2239 1505 776 2243 2244 1816 138 13727  
2247 139 1509 1821 1822 1512 1825 2256 7513 7009 2257  
1826 9301 2260 2261 1166 4849 2263 7523 1514 1167 15059  
1830 1516 2268 1168 1518 1519 2273 2275 2276 1520 7030  
94 1170 780 7541 1524 1846 2283 15079 7546 1525 1848  
1526 2287 971 1529 1178 7555 972 7045 2292 973 1857  
7561 2296 1858 2 7565 2299 709 1862 2304 2306 1863 1188  
1537 1189 2312 2313 1191 15111 1868 2316 14457 1542  
784 1544 2321 977 14463 4905 2323 1547 144 18 980 1554  
11920 15129 38 1882 2331 101 992 994 14478 7598 15138  
1560 1561 1890 2340 995 7093 7605 7094 1892 1893 996  
1895 7611 1211 150 2348 151 1215 5141 720 1001 1220  
13201 1903 1005 1578 2754 1581 1007 1008 2758 1584 152  
1912 3226 1913 7636 7123 1011 3229 1916 5161 1917 39  
3233 1589 7647 1014 1592 1016 1019 13231 1239 5171 1596  
3244 3245 7657 1020 1929 13240 3248 3249 725 1931 1250  
3253 5492 1026 1935 1937 1602 3258 9455 800 7676 1604  
1030 1255 9464 3263 26675 12008 1608 9471 1945 9478  
1948 27 1611 9485 1953 1261 8358 9490 9493 1955 3272  
1033 1263 9499 727 11418 1619 9503 7695 1960 1266 9512  
1036 1963 5521 1964 7703 1623 3284 1966 1968 9527 13299  
24082 1969 9529 9531 7191 13304 1038 65 3290 1972 804  
729 9544 5534 1976 9547 7723 7200 7725 808 9552 7728  
9555 108 1979 9567 7734 3298 9573 13985 3 9579 7737  
5542 1050 9584 23459 7740 7208 9592 1286 3302 13997  
9599 9600 1636 12087 3304 30 9611 7751 9615 816 14652  
9620 1987 5677 7757 1291 1640 9626 1055 9628 9629 7763  
9633 7764 7765 9641 13366 7766 1991 14026 1299 1993  
7772 9650 7774 14678 9658 735 9660 9662 112 14037 9664  
9666 9670 738 3318 1647 7783 1305 7785 165 1309 741  
2002 114 7235 2004 12138 1657 7801 7802 15365 7805 7806

3328 7808 7809 12147 7240 7812 7814 834 2008 10325 1314  
 7820 843 2012 7824 1662 14726 7826 1070 2015 844  
 10 7789 1023 1111 1024 2052 1113 1392 7023 7271 2055 2271  
 143 2057 2274 1115 1873 1566 2061 9539 798 1707 12904  
 1397 1878 184 1880 82 1233 1401 959 3612 5966 1236 2074  
 9556 23613 2075 1715 2293 3618 1888 9571 1579 1580 7303  
 7841 50 7056 26237 1720 9586 1035 2300 9590 961 7848  
 2302 853 95 9603 4892 2305 12343 1412 7858 1726 7861  
 1587 1252 1414 2311 1590 1732 1416 1128 1735 7874 1129  
 9630 1908 2319 169 1043 9638 2102 132 107 7888 1046  
 1140 1743 9651 7895 9656 2108 7897 12675 34 1601 6496  
 1746 12982 1464 9669 2113 13292 809 2335 2115 1143 2119  
 1049 7103 1606 1754 11486 1274 12997 193 7924 1609 6549  
 1758 121 7930 1760 1934 1052 7615 1936 13317 1281 10321  
 1613 15246 7941 1764 1614 2137 7370 2138 9060 15579  
 2139 1615 123 15257 4408 7953 13025 7954 1054 1944 813  
 1946 1947 7962 814 1059 15596 7135 1951 1060 24 13347  
 817 7641 1293 10351 3234 2157 1626 1627 14322 2161 1779  
 1297 5401 759 1630 7992 7151 7995 1300 2167 876 986  
 6 1787 991 821 1308 1072 1172 13067 880 8015 1641 1312  
 9380 8018 156 8020 886 5505 1798 4593 1799 13708 1510  
 1315 2186 997 2188 8038 1318 1985 1649 1806 13720 1182  
 2194 10402 1808 1809 3276 1811 7439 14696 708 1653 1185  
 1655 15021 888 15346 13104 1323 33 2206 10417 1819 15029  
 6957 1082 14710 1336 1083 2211 1823 827 1192 2006 1003  
 1527 2219 13431 1350 1668 7721 2011 1086 828 2225 1353  
 3305 7730 793 832 710 11922 1675 837 1840 2021 1368  
 1843 14742 10451 7742 15067 1844 7745 7746 9451 11634  
 841 1096 2240 11045 932 935 1849 1373 1102 1852 7758  
 1546 937 2036 2037 11057 11058 2251 2252 1548 113 10476  
 182 13482 1551 7770 14777 9491 7251 1552 11070 2258  
 7776 3581 1022 1381 1217 4844 1109 4846 1557  
 11 15259 1037 9565 11969 2160 96 1839 14389 109 7468 7731  
 2049 1302 1842 14057 969 14655 14144 838 1651 1126 12214  
 1563 1004 929 13822 85 10458 2234 59 7911 126 2118 28  
 936 2121 1661 846 10612 1574 1575 1015 68 942 157 14684  
 13750 1716 2073 1915 1097 1098 69 14093 1973 1100 1057  
 983 985 10415 9640 1061 951 10 14 1065 1028 14618 12101  
 5982 8051 13205 106 164 7787 4821 1032 11657 7793 2152  
 749 11661 11884 829 10505 16 1834 1295 167  
 12 1949 1012 1921 12230 938 55 1325 14520 1194 993 1765  
 868 1017 66 819 2083 13789 2116 12284 1490 83 13572  
 47 1116 859 1967 22 862 14761 1884 2093 12335 13709  
 835 10435 12068 11455 9453 864 881 815 965 1677 884  
 79  
 13 15 13743 14819 1386 12317 12244 10367 958 850 1077 11915  
 870 2149 950 149 63 953 14104 13568 12238 12222 923  
 955 15600 15576  
 14 13784 12 13573 13819 13759 10520 7803 13701 23749 14345  
 15 13799 13566 7 13794 1025 25647 1620 11094 14112 12850  
 16 14792 13764 13569 11016 25959 12846  
 17 11137 13707 13771 13728  
 18 12265  
 19 13801 13700 13809  
 21 13731 13729  
 22 13770  
 23 13742

SUMMARY OF MISSING DATA PATTERNS FOR THE FIRST DATA SET

MISSING DATA PATTERNS (x = not missing) FOR WITHIN

	1	2
AZTBL	x	x
BVLVC	x	x
EFVBL	x	x
CSEX	x	x
CAGE	x	x
BCD4SPX1	x	x
BCD4SPX2	x	x
BCD4SPX3	x	x
SQRTCD4	x	
LS0	x	x
LS1	x	x
LS2	x	x

MISSING DATA PATTERN FREQUENCIES FOR WITHIN

Pattern	Frequency	Pattern	Frequency
1	65377	2	24

MISSING DATA PATTERNS FOR U (x = not missing) FOR WITHIN

	1
AZTBL	x
BVLVC	x
EFVBL	x

MISSING DATA PATTERN FREQUENCIES FOR U FOR WITHIN

Pattern	Frequency
1	65401

MISSING DATA PATTERNS FOR Y (x = not missing) FOR WITHIN

	1	2
CSEX	x	x
CAGE	x	x
BCD4SPX1	x	x
BCD4SPX2	x	x
BCD4SPX3	x	x
SQRTCD4	x	
LS0	x	x
LS1	x	x
LS2	x	x

MISSING DATA PATTERN FREQUENCIES FOR Y FOR WITHIN

Pattern	Frequency	Pattern	Frequency
1	65377	2	24

COVARIANCE COVERAGE OF DATA FOR THE FIRST DATA SET

Minimum covariance coverage value 0.100

PROPORTION OF DATA PRESENT

Covariance Coverage					
	AZTBL	BVLVC	EFVBL	CSEX	CAGE
AZTBL	1.000				
BVLVC	1.000	1.000			
EFVBL	1.000	1.000	1.000		
CSEX	1.000	1.000	1.000	1.000	
CAGE	1.000	1.000	1.000	1.000	1.000
BCD4SPX1	1.000	1.000	1.000	1.000	1.000
BCD4SPX2	1.000	1.000	1.000	1.000	1.000
BCD4SPX3	1.000	1.000	1.000	1.000	1.000
SQRTCD4	1.000	1.000	1.000	1.000	1.000
LS0	1.000	1.000	1.000	1.000	1.000
LS1	1.000	1.000	1.000	1.000	1.000
LS2	1.000	1.000	1.000	1.000	1.000

Covariance Coverage					
	BCD4SPX1	BCD4SPX2	BCD4SPX3	SQRTCD4	LS0
BCD4SPX1	1.000				
BCD4SPX2	1.000	1.000			
BCD4SPX3	1.000	1.000	1.000		
SQRTCD4	1.000	1.000	1.000	1.000	
LS0	1.000	1.000	1.000	1.000	1.000
LS1	1.000	1.000	1.000	1.000	1.000
LS2	1.000	1.000	1.000	1.000	1.000

Covariance Coverage		
	LS1	LS2
LS1	1.000	
LS2	1.000	1.000

PROPORTION OF DATA PRESENT FOR U

Covariance Coverage			
	AZTBL	BVLVC	EFVBL
AZTBL	1.000		
BVLVC	1.000	1.000	
EFVBL	1.000	1.000	1.000

PROPORTION OF DATA PRESENT FOR Y

Covariance Coverage					
	CSEX	CAGE	BCD4SPX1	BCD4SPX2	BCD4SPX3
CSEX	1.000				
CAGE	1.000	1.000			
BCD4SPX1	1.000	1.000	1.000		
BCD4SPX2	1.000	1.000	1.000	1.000	
BCD4SPX3	1.000	1.000	1.000	1.000	1.000
SQRTCD4	1.000	1.000	1.000	1.000	1.000
LS0	1.000	1.000	1.000	1.000	1.000
LS1	1.000	1.000	1.000	1.000	1.000



LS2	1.000	1.000	1.000	1.000	1.000
	Covariance Coverage				
	SQRTCD4	LS0	LS1	LS2	
SQRTCD4	1.000				
LS0	1.000	1.000			
LS1	1.000	1.000	1.000		
LS2	1.000	1.000	1.000	1.000	

UNIVARIATE PROPORTIONS AND COUNTS FOR CATEGORICAL VARIABLES

AZTBL		
Category 1	0.850	16820.000
Category 2	0.150	2972.000
BVLVC		
Category 1	0.195	2384.000
Category 2	0.174	2130.000
Category 3	0.245	2988.000
Category 4	0.205	2506.000
Category 5	0.180	2202.000
EFVBL		
Category 1	0.314	6158.000
Category 2	0.686	13482.000

RESULTS FOR BASIC ANALYSIS

NOTE: These are average results over 11 data sets.

SAMPLE STATISTICS

	Means				
	CSEX	CAGE	BCD4SPX1	BCD4SPX2	BCD4SPX3
1	-0.081	-0.046	108.839	34.023	8.038
	Means				
	SQRTCD4	LS0	LS1	LS2	
1	17.004	-0.106	4.952	3.607	
	Covariances				
	CSEX	CAGE	BCD4SPX1	BCD4SPX2	BCD4SPX3
CSEX	0.221				
CAGE	0.893	72.745			
BCD4SPX1	-3.003	-4.306	5208.984		
BCD4SPX2	-1.654	-11.087	3208.946	2516.936	
BCD4SPX3	-0.467	-4.178	937.051	808.478	269.536
SQRTCD4	-0.345	-5.850	135.998	82.147	23.806
LS0	0.001	0.007	-0.242	-0.368	-0.136
LS1	0.002	-0.782	-0.201	-0.630	-0.188
LS2	-0.004	-1.745	-7.154	-5.454	-1.625

Covariances					
	SQRTCD4	LS0	LS1	LS2	
SQRTCD4	21.853				
LS0	0.331	0.127			
LS1	6.035	0.523	10.664		
LS2	10.828	0.381	10.993	35.612	

  

Correlations					
	CSEX	CAGE	BCD4SPX1	BCD4SPX2	BCD4SPX3
CSEX	0.000				
CAGE	0.000	0.000			
BCD4SPX1	0.000	0.000	0.000		
BCD4SPX2	0.000	0.000	0.000	0.000	
BCD4SPX3	0.000	0.000	0.000	0.000	0.000
SQRTCD4	0.000	0.000	0.000	0.000	0.000
LS0	0.000	0.000	0.000	0.000	0.000
LS1	0.000	0.000	0.000	0.000	0.000
LS2	0.000	0.000	0.000	0.000	0.000

  

Correlations				
	SQRTCD4	LS0	LS1	LS2
SQRTCD4	1.000			
LS0	0.198	1.000		
LS1	0.395	0.450	1.000	
LS2	0.388	0.179	0.564	1.000

TECHNICAL 8 OUTPUT

TECHNICAL 8 OUTPUT FOR BAYES ESTIMATION

CHAIN	BSEED
1	0
2	285380

ITERATION	POTENTIAL SCALE REDUCTION	PARAMETER WITH HIGHEST PSR
100	1.693	65
200	1.052	9

SAVEDATA INFORMATION

Order of variables

AZTBL  
 BVLVC  
 EFVBL  
 CSEX  
 CAGE  
 BCD4SPX1  
 BCD4SPX2  
 BCD4SPX3  
 SQRTCD4  
 LS0  
 LS1  
 LS2

IDNO

Save file

Basic\_Group\_SA\_\*.txt

Save file format                      Free

Save file record length            5000

Beginning Time: 12:17:43

Ending Time: 12:33:15

Elapsed Time: 00:15:32

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