

N1: up to 10 common factors: PCA

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Initial Factor Method: Principal Components

Prior Communality Estimates: ONE

Eigenvalues of the Correlation Matrix: Total = 10 Average = 1

	1	2	3	4	5
Eigenvalue	1.3738	1.1869	1.1034	1.0613	1.0016
Difference	0.1869	0.0835	0.0421	0.0597	0.0231
Proportion	0.1374	0.1187	0.1103	0.1061	0.1002
Cumulative	0.1374	0.2561	0.3664	0.4725	0.5727
	6	7	8	9	10
Eigenvalue	0.9786	0.9103	0.8632	0.7907	0.7303
Difference	0.0682	0.0471	0.0725	0.0604	
Proportion	0.0979	0.0910	0.0863	0.0791	0.0730
Cumulative	0.6706	0.7616	0.8479	0.9270	1.0000

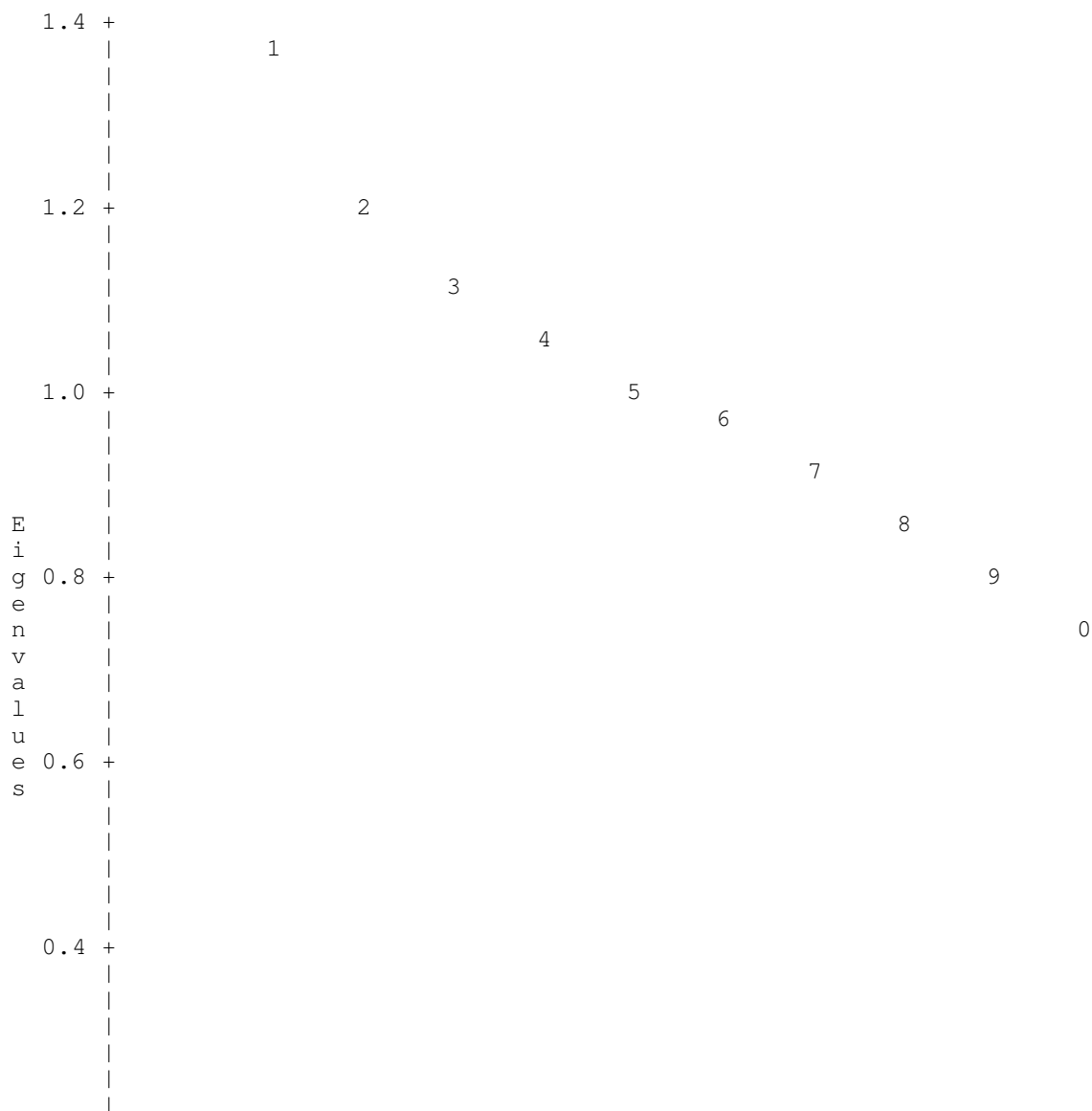
5 factors will be retained by the MINEIGEN criterion.

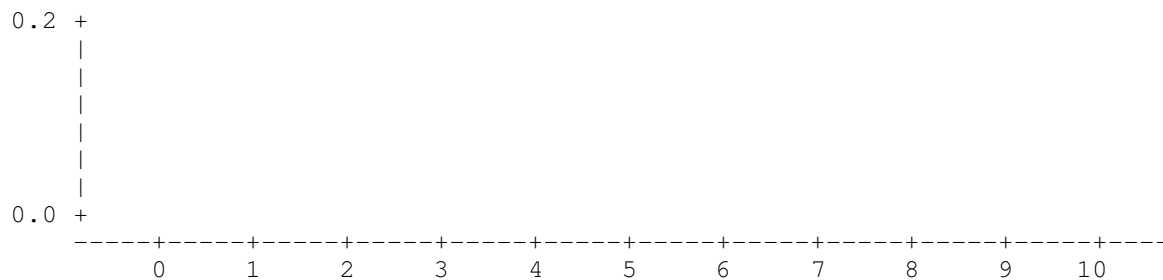
N1: up to 10 common factors: PCA

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Initial Factor Method: Principal Components

Scree Plot of Eigenvalues





Number
N1: up to 10 common factors: PCA

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Initial Factor Method: Principal Components

Factor Pattern

	FACTOR1	FACTOR2	FACTOR3	FACTOR4	FACTOR5
X1	0.01069	-0.55305	-0.40019	-0.15921	0.14023
X2	0.42347	0.14703	-0.36907	0.49179	-0.22300
X3	0.18727	0.60340	0.07144	-0.37765	-0.13234
X4	-0.50072	0.26748	0.04539	0.49230	-0.20677
X5	0.36978	-0.28765	0.06093	0.32570	-0.55251
X6	0.30057	-0.39337	0.44624	0.04906	0.19676
X7	0.40083	0.21142	0.55749	-0.06373	-0.07260
X8	0.47888	0.08219	0.06660	0.37809	0.55829
X9	-0.41039	0.13374	0.15624	0.38725	0.39408
X10	0.35083	0.34196	-0.50730	-0.06017	0.23607

Variance explained by each factor

FACTOR1	FACTOR2	FACTOR3	FACTOR4	FACTOR5
1.373807	1.186870	1.103371	1.061275	1.001623

Final Communality Estimates: Total = 5.726946

X1	X2	X3	X4	X5
0.511143	0.628743	0.564396	0.609444	0.634541
X6	X7	X8	X9	X10
0.485338	0.525488	0.695161	0.515973	0.556721

N1: up to 10 common factors: ML

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Initial Factor Method: Maximum Likelihood

Prior Communality Estimates: SMC

X1	X2	X3	X4	X5
0.026854	0.037483	0.031480	0.049254	0.024931
X6	X7	X8	X9	X10
0.022770	0.032153	0.036022	0.025594	0.032692

Preliminary Eigenvalues: Total = 0.33036742 Average = 0.03303674

	1	2	3	4	5
Eigenvalue	0.4232	0.2238	0.1381	0.1011	0.0335
Difference	0.1995	0.0857	0.0370	0.0676	0.0253
Proportion	1.2811	0.6773	0.4179	0.3060	0.1014
Cumulative	1.2811	1.9584	2.3763	2.6823	2.7837
	6	7	8	9	10
Eigenvalue	0.0082	-0.0602	-0.1117	-0.1836	-0.2420
Difference	0.0684	0.0515	0.0718	0.0584	
Proportion	0.0248	-0.1823	-0.3382	-0.5556	-0.7324

Cumulative	2.8085	2.6262	2.2880	1.7324	1.0000
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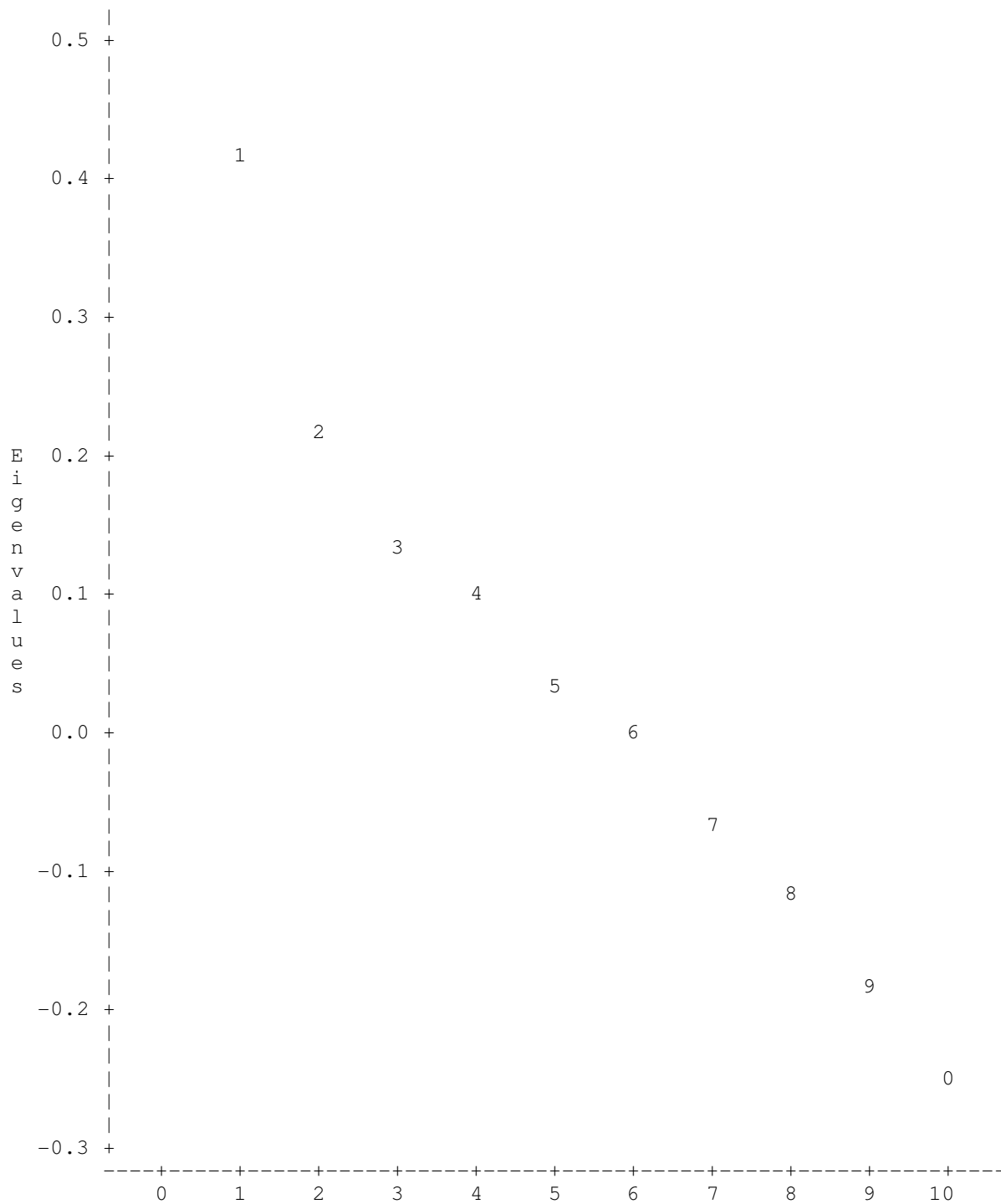
1 factors will be retained by the PROPORTION criterion.

N1: up to 10 common factors: ML

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Initial Factor Method: Maximum Likelihood

Scree Plot of Eigenvalues



N1: up to 10 common factors: ML

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Initial Factor Method: Maximum Likelihood

Iter	Criterion	Ridge	Change	Communalities
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1	0.09606	0.000	0.04390	0.00006	0.05459	0.00894	0.09077	0.03916
				0.02399	0.04763	0.07992	0.05164	0.03538
2	0.09605	0.000	0.00275	0.00028	0.05203	0.00845	0.09291	0.04054
				0.02674	0.04663	0.07909	0.05071	0.03544
3	0.09605	0.000	0.00089	0.00032	0.05150	0.00831	0.09380	0.04060
				0.02700	0.04654	0.07879	0.05102	0.03503

Convergence criterion satisfied.

Significance tests based on 250 observations:

Test of H0: No common factors.
vs HA: At least one common factor.

Chi-square = 40.041 df = 45 Prob>chi**2 = 0.6816

Test of H0: 1 Factors are sufficient.
vs HA: More factors are needed.

Chi-square = 23.452 df = 35 Prob>chi**2 = 0.9316

Chi-square without Bartlett's correction = 23.916227045
Akaike's Information Criterion = -46.08377296
Schwarz's Bayesian Criterion = -169.3349051
Tucker and Lewis's Reliability Coefficient = 0

Squared Canonical Correlations

FACTOR1
0.315526

Eigenvalues of the Weighted Reduced Correlation Matrix:
Total = 0.4609746 Average = 0.04609746

	1	2	3	4	5
Eigenvalue	0.4610	0.2189	0.1440	0.1251	0.0620
Difference	0.2421	0.0749	0.0189	0.0631	0.0526
Proportion	1.0000	0.4748	0.3124	0.2715	0.1345
Cumulative	1.0000	1.4748	1.7872	2.0586	2.1931
	6	7	8	9	10
Eigenvalue	0.0094	-0.0489	-0.1026	-0.1749	-0.2330
Difference	0.0583	0.0537	0.0723	0.0581	
Proportion	0.0204	-0.1060	-0.2226	-0.3794	-0.5055
Cumulative	2.2135	2.1075	1.8849	1.5055	1.0000
	N1: up to 10 common factors: ML				228

Initial Factor Method: Maximum Likelihood

Factor Pattern

	FACTOR1
X1	0.01816
X2	0.22658
X3	0.09100
X4	-0.30654
X5	0.20157
X6	0.16455
X7	0.21569
X8	0.28052
X9	-0.22605
X10	0.18699

Variance explained by each factor

FACTOR1
 Weighted 0.460976
 Unweighted 0.432903

Final Communalities Estimates and Variable Weights
 Total Communality: Weighted = 0.460976 Unweighted = 0.432903

	X1	X2	X3	X4	X5
Communality	0.000330	0.051340	0.008282	0.093965	0.040629
Weight	1.000317	1.054294	1.008376	1.103515	1.042316

	X6	X7	X8	X9	X10
Communality	0.027076	0.046524	0.078694	0.051100	0.034965
Weight	1.027748	1.048815	1.085530	1.053759	1.036305

N1: 2 common factors: PCA

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Initial Factor Method: Principal Components

Partial Correlations Controlling all other Variables

	X1	X2	X3	X4	X5
X1	1.00000	0.05044	-0.08561	-0.11348	-0.01617
X2	0.05044	1.00000	0.04186	0.04588	0.10369
X3	-0.08561	0.04186	1.00000	-0.06992	-0.04105
X4	-0.11348	0.04588	-0.06992	1.00000	-0.07158
X5	-0.01617	0.10369	-0.04105	-0.07158	1.00000
X6	-0.00723	-0.01540	-0.07128	-0.06917	0.04510
X7	-0.05919	0.02965	0.09605	-0.03611	0.02001
X8	-0.03111	0.09740	-0.02698	-0.08328	0.01767
X9	-0.00821	-0.03948	0.00962	0.09621	-0.04472
X10	-0.04615	0.09566	0.05092	-0.05673	-0.03900

	X6	X7	X8	X9	X10
X1	-0.00723	-0.05919	-0.03111	-0.00821	-0.04615
X2	-0.01540	0.02965	0.09740	-0.03948	0.09566
X3	-0.07128	0.09605	-0.02698	0.00962	0.05092
X4	-0.06917	-0.03611	-0.08328	0.09621	-0.05673
X5	0.04510	0.02001	0.01767	-0.04472	-0.03900
X6	1.00000	0.06439	0.05045	-0.03508	-0.02740
X7	0.06439	1.00000	0.08221	-0.04906	-0.04525
X8	0.05045	0.08221	1.00000	0.03733	0.07355
X9	-0.03508	-0.04906	0.03733	1.00000	-0.07561
X10	-0.02740	-0.04525	0.07355	-0.07561	1.00000

Kaiser's Measure of Sampling Adequacy: Over-all MSA = 0.51104148

	X1	X2	X3	X4	X5
	0.451727	0.500065	0.477013	0.503047	0.527286
	X6	X7	X8	X9	X10
	0.545676	0.531277	0.532336	0.545915	0.509660

Prior Communality Estimates: ONE

Eigenvalues of the Correlation Matrix: Total = 10 Average = 1

	1	2	3	4	5
Eigenvalue	1.3738	1.1869	1.1034	1.0613	1.0016
Difference	0.1869	0.0835	0.0421	0.0597	0.0231
Proportion	0.1374	0.1187	0.1103	0.1061	0.1002
Cumulative	0.1374	0.2561	0.3664	0.4725	0.5727
	6	7	8	9	10
Eigenvalue	0.9786	0.9103	0.8632	0.7907	0.7303
Difference	0.0682	0.0471	0.0725	0.0604	

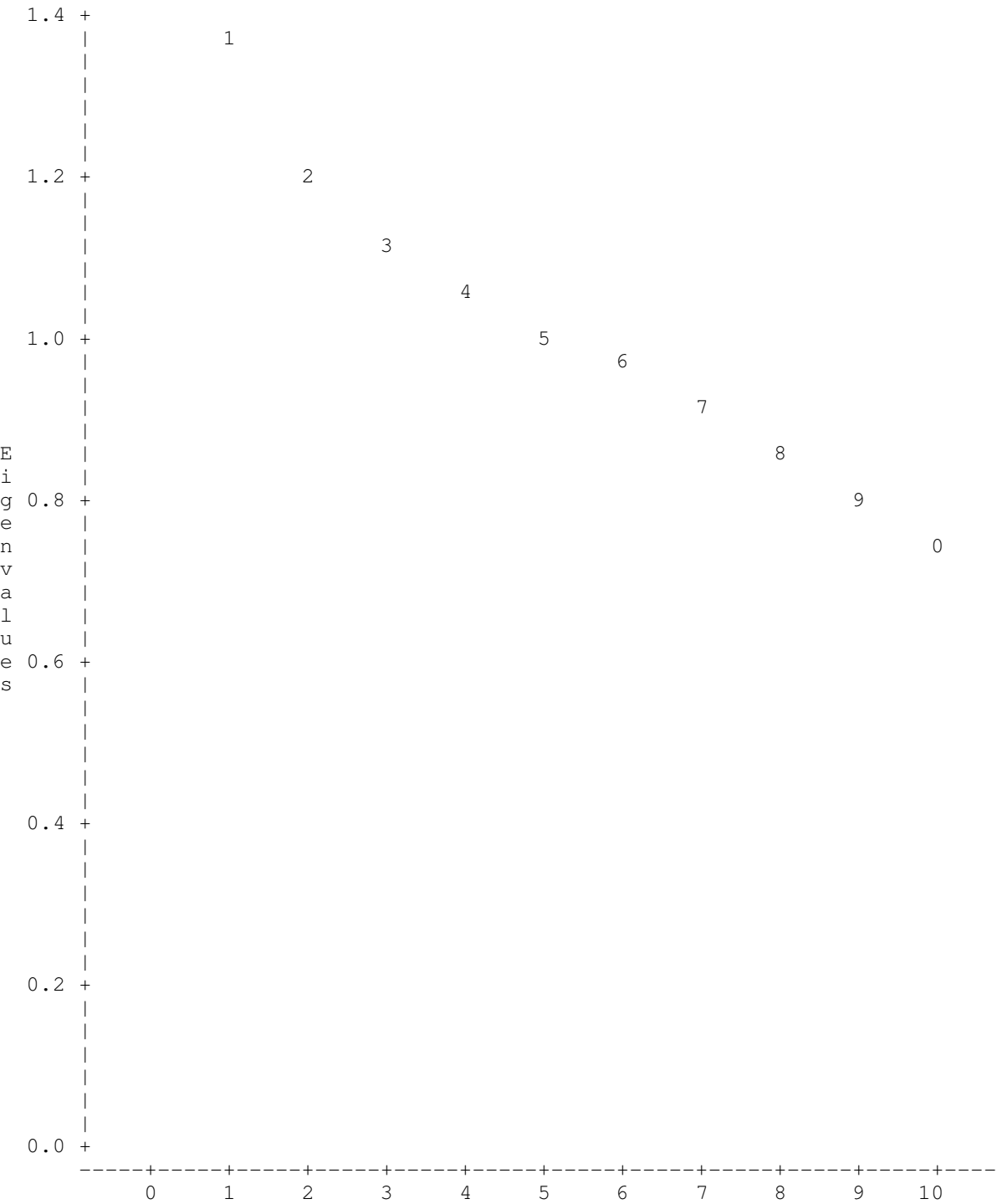
Proportion	0.0979	0.0910	0.0863	0.0791	0.0730
Cumulative	0.6706	0.7616	0.8479	0.9270	1.0000

2 factors will be retained by the NFACTOR criterion.
N1: 2 common factors: PCA

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Initial Factor Method: Principal Components

Scree Plot of Eigenvalues



Number
N1: 2 common factors: PCA

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Initial Factor Method: Principal Components

Eigenvectors

	1	2
X1	0.00912	-0.50765
X2	0.36129	0.13496
X3	0.15978	0.55386
X4	-0.42720	0.24552
X5	0.31549	-0.26403
X6	0.25644	-0.36108
X7	0.34198	0.19406
X8	0.40857	0.07545
X9	-0.35013	0.12276
X10	0.29932	0.31388

Factor Pattern

	FACTOR1	FACTOR2
X1	0.01069	-0.55305
X2	0.42347	0.14703
X3	0.18727	0.60340
X4	-0.50072	0.26748
X5	0.36978	-0.28765
X6	0.30057	-0.39337
X7	0.40083	0.21142
X8	0.47888	0.08219
X9	-0.41039	0.13374
X10	0.35083	0.34196

Variance explained by each factor

FACTOR1	FACTOR2
1.373807	1.186870

Final Community Estimates: Total = 2.560678

X1	X2	X3	X4	X5
0.305976	0.200943	0.399160	0.322265	0.219482
X6	X7	X8	X9	X10
0.245083	0.205365	0.236085	0.186304	0.240014

N1: 2 common factors: PCA

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Initial Factor Method: Principal Components

Residual Correlations With Uniqueness on the Diagonal

	X1	X2	X3	X4	X5
X1	0.69402	0.11120	0.24732	0.05363	-0.16436
X2	0.11120	0.79906	-0.12777	0.18467	-0.01255
X3	0.24732	-0.12777	0.60084	-0.12521	0.06951
X4	0.05363	0.18467	-0.12521	0.67773	0.18629
X5	-0.16436	-0.01255	0.06951	0.18629	0.78052
X6	-0.21927	-0.07759	0.11621	0.17692	-0.16629
X7	0.05065	-0.16181	-0.10639	0.09215	-0.05441
X8	0.01488	-0.11032	-0.14646	0.12966	-0.11677
X9	0.06333	0.10571	-0.00647	-0.13400	0.13320
X10	0.14614	-0.09731	-0.21168	0.02265	-0.05391
	X6	X7	X8	X9	X10
X1	-0.21927	0.05065	0.01488	0.06333	0.14614
X2	-0.07759	-0.16181	-0.11032	0.10571	-0.09731
X3	0.11621	-0.10639	-0.14646	-0.00647	-0.21168
X4	0.17692	0.09215	0.12966	-0.13400	0.02265
X5	-0.16629	-0.05441	-0.11677	0.13320	-0.05391

X6	0.75492	0.03256	-0.05069	0.13105	0.00462
X7	0.03256	0.79464	-0.11940	0.08304	-0.23624
X8	-0.05069	-0.11940	0.76391	0.19608	-0.11451
X9	0.13105	0.08304	0.19608	0.81370	0.01930
X10	0.00462	-0.23624	-0.11451	0.01930	0.75999

Root Mean Square Off-diagonal Residuals: Over-all = 0.12747853

	X1	X2	X3	X4	X5
0.141285		0.119242	0.144962	0.134344	0.120924
	X6	X7	X8	X9	X10
0.127970	0.119973		0.121415	0.112455	0.128395

Partial Correlations Controlling Factors

	X1	X2	X3	X4	X5
X1	1.00000	0.14933	0.38299	0.07819	-0.22331
X2	0.14933	1.00000	-0.18440	0.25094	-0.01589
X3	0.38299	-0.18440	1.00000	-0.19622	0.10150
X4	0.07819	0.25094	-0.19622	1.00000	0.25614
X5	-0.22331	-0.01589	0.10150	0.25614	1.00000
X6	-0.30293	-0.09991	0.17256	0.24734	-0.21663
X7	0.06820	-0.20306	-0.15397	0.12557	-0.06909
X8	0.02044	-0.14120	-0.21618	0.18020	-0.15123
X9	0.08427	0.13109	-0.00926	-0.18045	0.16715
X10	0.20122	-0.12487	-0.31325	0.03156	-0.06999

N1: 2 common factors: PCA

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Initial Factor Method: Principal Components

Partial Correlations Controlling Factors

	X6	X7	X8	X9	X10
X1	-0.30293	0.06820	0.02044	0.08427	0.20122
X2	-0.09991	-0.20306	-0.14120	0.13109	-0.12487
X3	0.17256	-0.15397	-0.21618	-0.00926	-0.31325
X4	0.24734	0.12557	0.18020	-0.18045	0.03156
X5	-0.21663	-0.06909	-0.15123	0.16715	-0.06999
X6	1.00000	0.04204	-0.06675	0.16721	0.00610
X7	0.04204	1.00000	-0.15325	0.10327	-0.30400
X8	-0.06675	-0.15325	1.00000	0.24870	-0.15028
X9	0.16721	0.10327	0.24870	1.00000	0.02455
X10	0.00610	-0.30400	-0.15028	0.02455	1.00000

Root Mean Square Off-diagonal Partial: Over-all = 0.17509329

	X1	X2	X3	X4	X5
0.202591		0.157571	0.218051	0.187429	0.161051
	X6	X7	X8	X9	X10
0.174437	0.155802		0.161524	0.143740	0.175037

N1: 2 common factors: PCA

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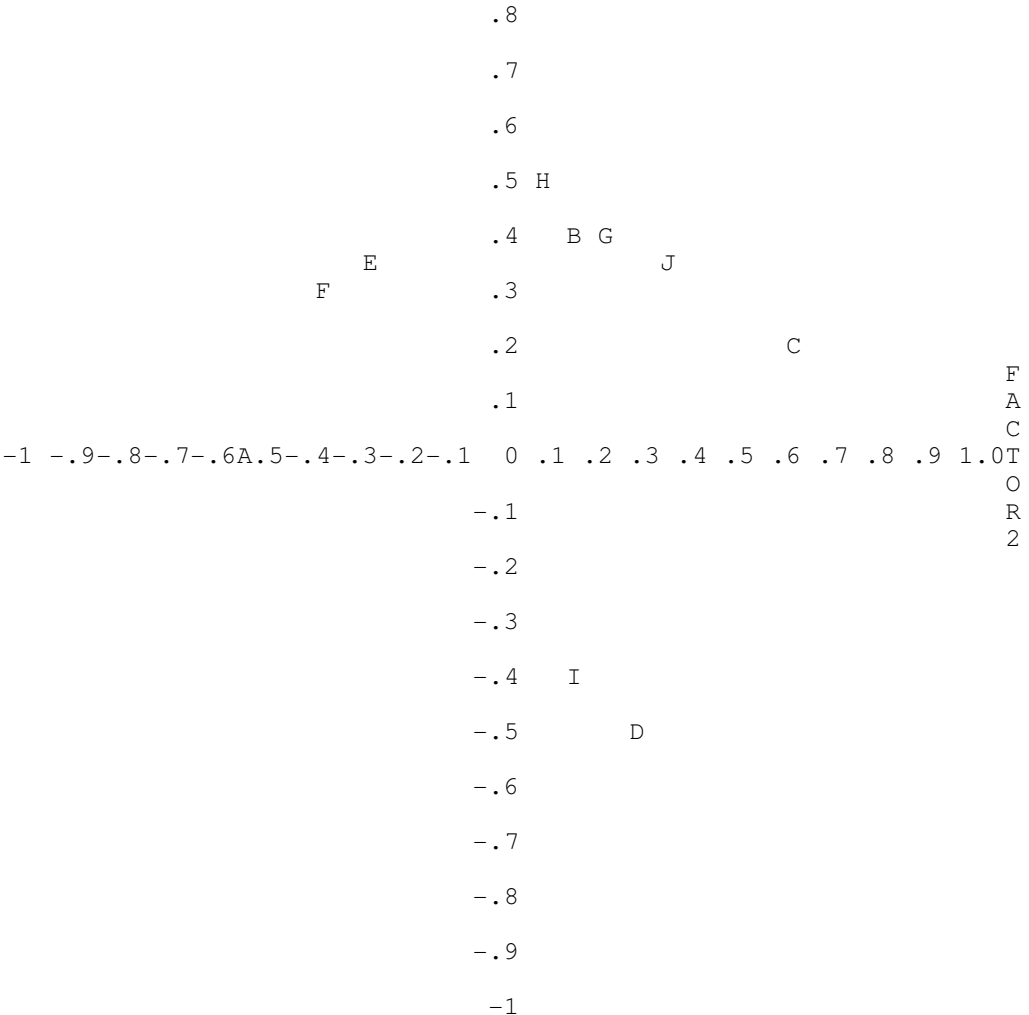
Initial Factor Method: Principal Components

Plot of Factor Pattern for FACTOR1 and FACTOR2

FACTOR1

1

.9



X1	=A	X2	=B	X3	=C	X4	=D	X5	=E
X6	=F	X7	=G	X8	=H	X9	=I	X10	=J

N1: 2 common factors: PCA 235

Rotation Method: Varimax

Orthogonal Transformation Matrix

	1	2
1	0.72221	0.69168
2	-0.69168	0.72221

Rotated Factor Pattern

	FACTOR1	FACTOR2
X1	0.39026	-0.39202
X2	0.20414	0.39909
X3	-0.28211	0.56531
X4	-0.54663	-0.15316
X5	0.46602	0.04803
X6	0.48916	-0.07620
X7	0.14325	0.42994
X8	0.28900	0.39059
X9	-0.38889	-0.18727
X10	0.01684	0.48962

Variance explained by each factor

FACTOR1	FACTOR2
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1.284373 1.276305

Final Communalities Estimates: Total = 2.560678

X1	X2	X3	X4	X5
0.305976	0.200943	0.399160	0.322265	0.219482
X6	X7	X8	X9	X10
0.245083	0.205365	0.236085	0.186304	0.240014

Scoring Coefficients Estimated by Regression

Squared Multiple Correlations of the Variables with each Factor

FACTOR1	FACTOR2
1.000000	1.000000

N1: 2 common factors: PCA

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Rotation Method: Varimax

Standardized Scoring Coefficients

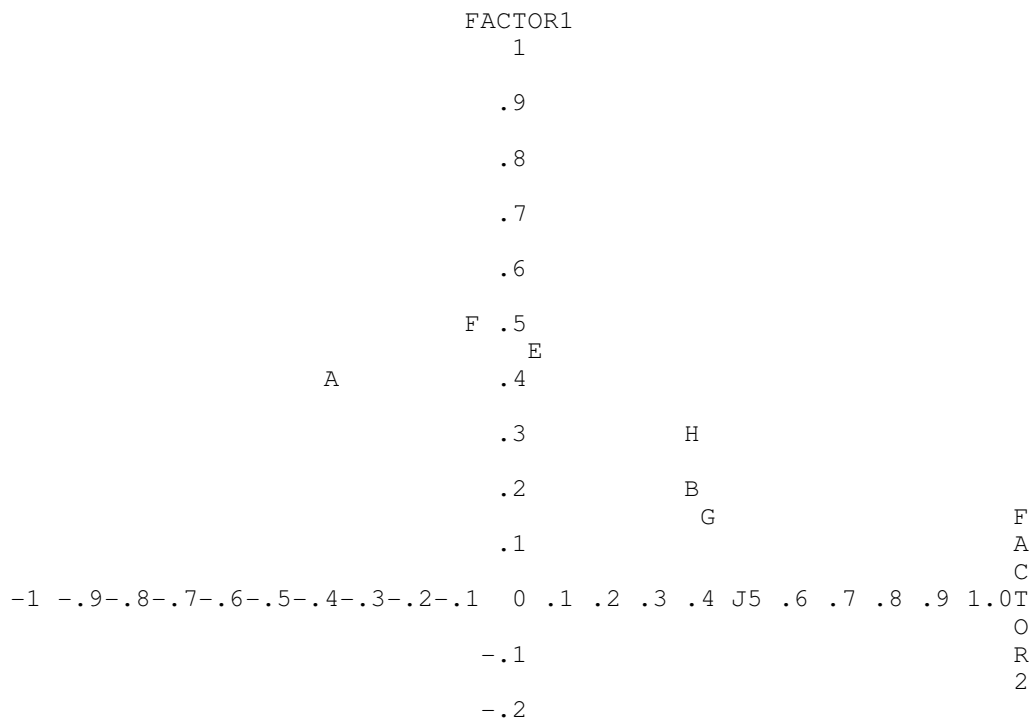
	FACTOR1	FACTOR2
X1	0.32792	-0.33114
X2	0.13693	0.30267
X3	-0.25320	0.46145
X4	-0.41911	-0.08934
X5	0.36203	0.01115
X6	0.38726	-0.08804
X7	0.08751	0.33046
X8	0.20385	0.29112
X9	-0.29368	-0.12524
X10	-0.01486	0.38471

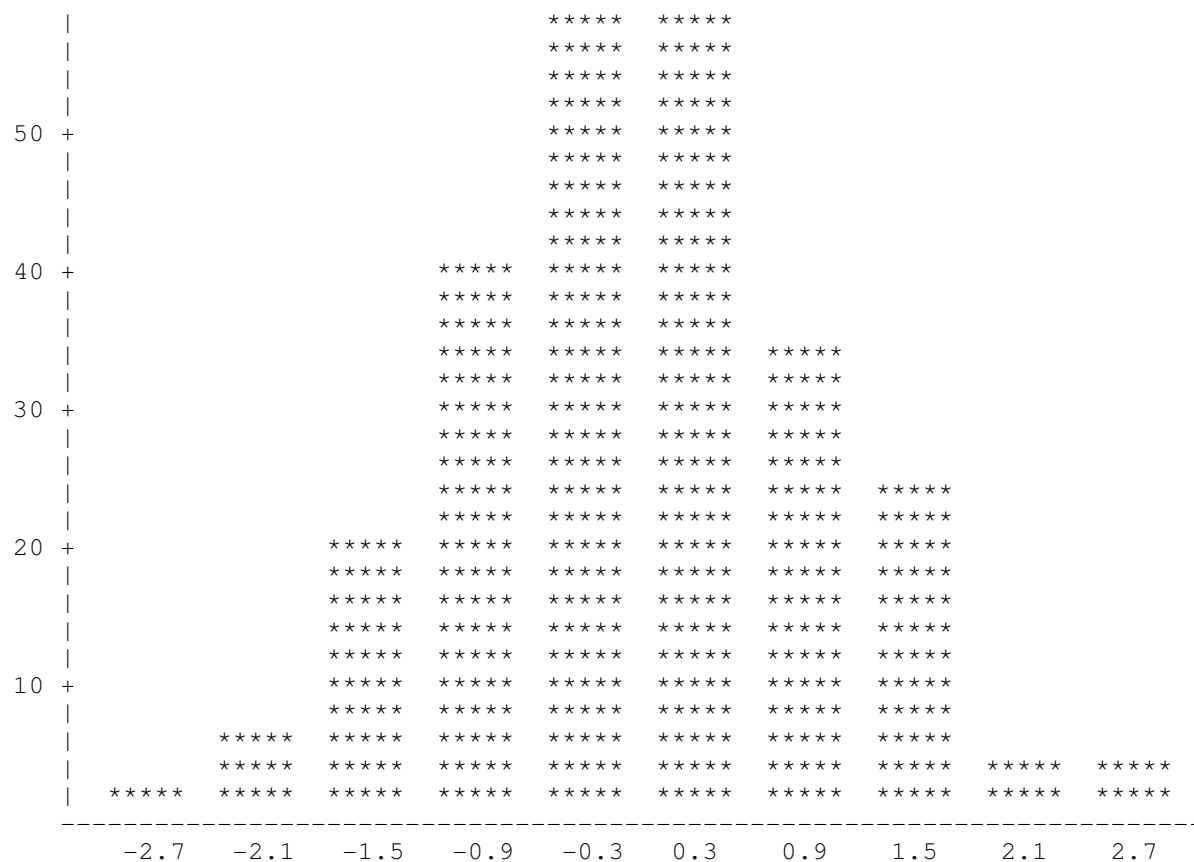
N1: 2 common factors: PCA

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Rotation Method: Varimax

Plot of Factor Pattern for FACTOR1 and FACTOR2





FACTOR2 Midpoint
N1: 2 common factors: ML

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Initial Factor Method: Maximum Likelihood

Partial Correlations Controlling all other Variables

	X1	X2	X3	X4	X5
X1	1.00000	0.05044	-0.08561	-0.11348	-0.01617
X2	0.05044	1.00000	0.04186	0.04588	0.10369
X3	-0.08561	0.04186	1.00000	-0.06992	-0.04105
X4	-0.11348	0.04588	-0.06992	1.00000	-0.07158
X5	-0.01617	0.10369	-0.04105	-0.07158	1.00000
X6	-0.00723	-0.01540	-0.07128	-0.06917	0.04510
X7	-0.05919	0.02965	0.09605	-0.03611	0.02001
X8	-0.03111	0.09740	-0.02698	-0.08328	0.01767
X9	-0.00821	-0.03948	0.00962	0.09621	-0.04472
X10	-0.04615	0.09566	0.05092	-0.05673	-0.03900
	X6	X7	X8	X9	X10
X1	-0.00723	-0.05919	-0.03111	-0.00821	-0.04615
X2	-0.01540	0.02965	0.09740	-0.03948	0.09566
X3	-0.07128	0.09605	-0.02698	0.00962	0.05092
X4	-0.06917	-0.03611	-0.08328	0.09621	-0.05673
X5	0.04510	0.02001	0.01767	-0.04472	-0.03900
X6	1.00000	0.06439	0.05045	-0.03508	-0.02740
X7	0.06439	1.00000	0.08221	-0.04906	-0.04525
X8	0.05045	0.08221	1.00000	0.03733	0.07355
X9	-0.03508	-0.04906	0.03733	1.00000	-0.07561
X10	-0.02740	-0.04525	0.07355	-0.07561	1.00000

Kaiser's Measure of Sampling Adequacy: Over-all MSA = 0.51104148

X1 X2 X3 X4 X5

0.451727 0.500065 0.477013 0.503047 0.527286

X6	X7	X8	X9	X10
0.545676	0.531277	0.532336	0.545915	0.509660

Prior Communality Estimates: SMC

X1	X2	X3	X4	X5
0.026854	0.037483	0.031480	0.049254	0.024931

X6	X7	X8	X9	X10
0.022770	0.032153	0.036022	0.025594	0.032692

Preliminary Eigenvalues: Total = 0.33036742 Average = 0.03303674

	1	2	3	4	5
Eigenvalue	0.4232	0.2238	0.1381	0.1011	0.0335
Difference	0.1995	0.0857	0.0370	0.0676	0.0253
Proportion	1.2811	0.6773	0.4179	0.3060	0.1014
Cumulative	1.2811	1.9584	2.3763	2.6823	2.7837

N1: 2 common factors: ML 241

Initial Factor Method: Maximum Likelihood

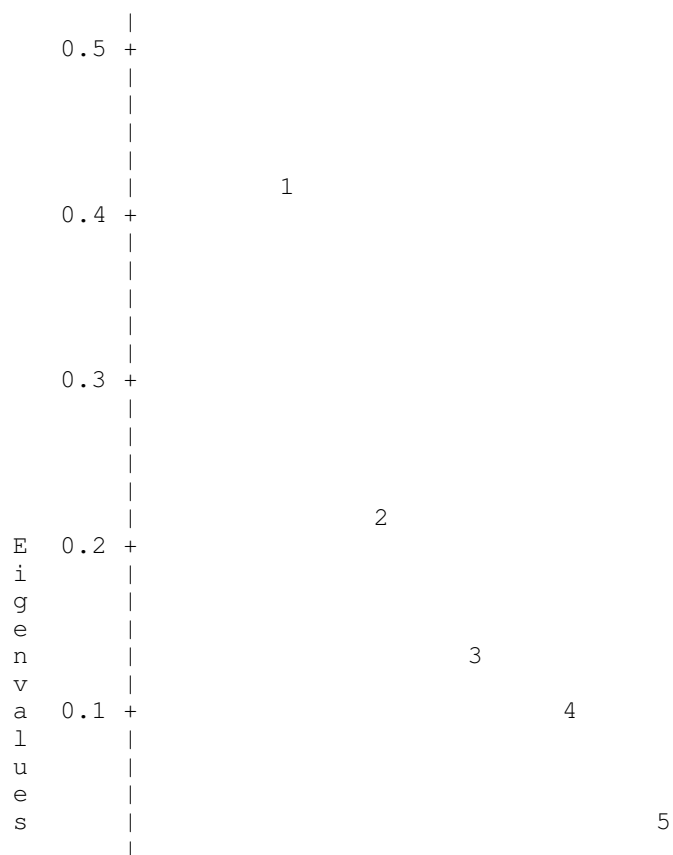
	6	7	8	9	10
Eigenvalue	0.0082	-0.0602	-0.1117	-0.1836	-0.2420
Difference	0.0684	0.0515	0.0718	0.0584	
Proportion	0.0248	-0.1823	-0.3382	-0.5556	-0.7324
Cumulative	2.8085	2.6262	2.2880	1.7324	1.0000

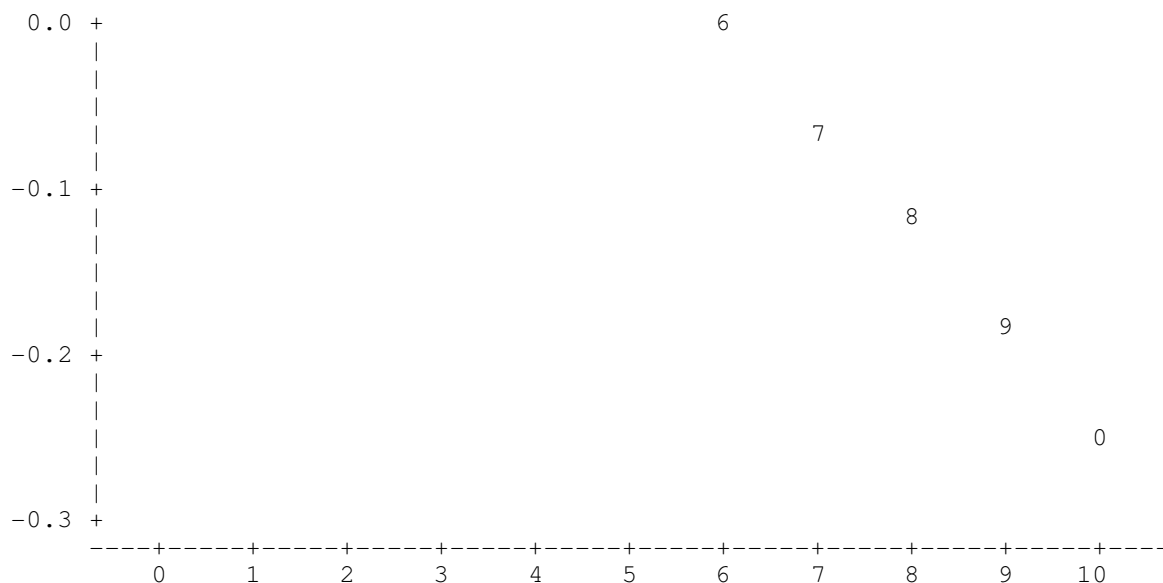
2 factors will be retained by the NFACTOR criterion.

N1: 2 common factors: ML 242

Initial Factor Method: Maximum Likelihood

Scree Plot of Eigenvalues





Number
N1: 2 common factors: ML

243

Initial Factor Method: Maximum Likelihood

Iter	Criterion	Ridge	Change	Communalities					
1	0.06936	0.000	0.08199	0.06115	0.05816	0.11347	0.12248	0.05528	0.05546
				0.05546	0.05615	0.07834	0.05363	0.06056	
2	0.06922	0.000	0.01371	0.06391	0.05168	0.12717	0.12338	0.05400	0.05663
				0.05663	0.06122	0.07334	0.05480	0.05693	
3	0.06917	0.000	0.01131	0.06219	0.04942	0.13848	0.12280	0.05422	0.05634
				0.05634	0.06306	0.07173	0.05519	0.05362	
4	0.06913	0.000	0.01037	0.05929	0.04832	0.14885	0.12094	0.05483	0.05690
				0.05690	0.06376	0.07080	0.05523	0.05177	
5	0.06909	0.000	0.01096	0.05577	0.04772	0.15982	0.11877	0.05555	0.05765
				0.05765	0.06381	0.07025	0.05515	0.05039	
6	0.06905	0.000	0.01233	0.05204	0.04727	0.17215	0.11658	0.05624	0.05833
				0.05833	0.06358	0.06987	0.05501	0.04904	
7	0.06899	0.000	0.01442	0.04821	0.04686	0.18657	0.11450	0.05683	0.05876
				0.05876	0.06321	0.06958	0.05485	0.04753	
8	0.06893	0.000	0.01748	0.04426	0.04645	0.20405	0.11260	0.05725	0.05886
				0.05886	0.06268	0.06940	0.05467	0.04579	
9	0.06885	0.000	0.02213	0.04009	0.04602	0.22618	0.11089	0.05747	0.05852
				0.05852	0.06192	0.06932	0.05450	0.04377	
10	0.06875	0.000	0.02966	0.03555	0.04560	0.25583	0.10941	0.05740	0.05763
				0.05763	0.06076	0.06942	0.05432	0.04143	
11	0.06859	0.000	0.04278	0.03045	0.04522	0.29861	0.10814	0.05693	0.05597
				0.05597	0.05897	0.06978	0.05416	0.03875	
12	0.06836	0.000	0.06790	0.02459	0.04492	0.36652	0.10708	0.05588	0.05323
				0.05323	0.05619	0.07051	0.05400	0.03570	
13	0.06801	0.000	0.12197	0.01781	0.04477	0.48849	0.10610	0.05407	0.04903
				0.04903	0.05199	0.07174	0.05387	0.03241	
14	0.06751	0.000	0.25840	0.01030	0.04485	0.74690	0.10477	0.05145	

				0.04322	0.04612	0.07337	0.05378	0.02927
15	0.06722	0.000	0.25310	0.00758	0.04497	1.00000	0.10389	0.05036
				0.04075	0.04359	0.07390	0.05376	0.02846
16	0.06721	0.000	0.00276	0.00969	0.04605	1.00000	0.10258	0.05090
				0.04263	0.04635	0.07583	0.05350	0.02977
17	0.06720	0.000	0.00048	0.00959	0.04636	1.00000	0.10209	0.05086
				0.04261	0.04652	0.07630	0.05321	0.02973

Convergence criterion satisfied.

N1: 2 common factors: ML

244

Initial Factor Method: Maximum Likelihood

Significance tests based on 250 observations:

Test of H0: No common factors.

vs HA: At least one common factor.

Chi-square = 40.041 df = 45 Prob>chi**2 = 0.6816

Test of H0: 2 Factors are sufficient.

vs HA: More factors are needed.

Chi-square = 16.364 df = 26 Prob>chi**2 = 0.9270

Chi-square without Bartlett's correction = 16.733978099

Akaike's Information Criterion = -35.2660219

Schwarz's Bayesian Criterion = -126.8240058

Tucker and Lewis's Reliability Coefficient = 0

Squared Canonical Correlations

FACTOR1	FACTOR2
1.000000	0.313442

Eigenvectors

	1	2
X1	-0.08439	0.08839
X2	0.04318	0.37533
X3	0.99550	-0.00879
X4	0.00000	-0.56278
X5	0.00000	0.31704
X6	0.00000	0.29148
X7	0.00000	0.27932
X8	0.00000	0.36617
X9	0.00000	-0.31079
X10	0.00000	0.20087

Eigenvalues of the Weighted Reduced Correlation Matrix:

Total = 0.4565397 Average = 0.05072663

	1	2	3	4	5
Eigenvalue	.	0.4565	0.1778	0.1463	0.0726
Difference	.	0.2787	0.0315	0.0737	0.0203
Proportion	.	1.0000	0.3894	0.3205	0.1591
Cumulative	.	1.0000	1.3894	1.7100	1.8690

	6	7	8	9	10
Eigenvalue	0.0523	-0.0377	-0.0577	-0.1455	-0.2082
Difference	0.0900	0.0200	0.0878	0.0628	
Proportion	0.1146	-0.0825	-0.1264	-0.3186	-0.4561
Cumulative	1.9837	1.9012	1.7748	1.4561	1.0000

N1: 2 common factors: ML

245

Initial Factor Method: Maximum Likelihood

Factor Pattern

	FACTOR1	FACTOR2
X1	-0.08439	0.04949
X2	0.04025	0.21171
X3	1.00000	-0.00000
X4	-0.05759	-0.31413
X5	-0.03481	0.22282
X6	-0.06486	0.19591
X7	0.09624	0.19310
X8	-0.00718	0.27628
X9	-0.00263	-0.23050
X10	0.06036	0.16159

Variance explained by each factor

	FACTOR1	FACTOR2
Weighted	0.031786	0.456540
Unweighted	1.030441	0.426839

Final Communality Estimates and Variable Weights

Total Communality: Weighted = 0.488326 Unweighted = 1.457280

	X1	X2	X3	X4	X5
Communality	0.009570	0.046441	1.000000	0.101993	0.050862
Weight	1.009685	1.048610	.	1.113703	1.053590

	X6	X7	X8	X9	X10
Communality	0.042587	0.046549	0.076381	0.053139	0.029756
Weight	1.044505	1.048786	1.082601	1.056203	1.030644

Residual Correlations With Uniqueness on the Diagonal

	X1	X2	X3	X4	X5
X1	0.99043	0.02734	0.00000	-0.08897	-0.01528
X2	0.02734	0.95356	0.00000	0.08078	0.05598
X3	0.00000	0.00000	0.00000	0.00000	0.00000
X4	-0.08897	0.08078	0.00000	0.89801	-0.00782
X5	-0.01528	0.05598	0.00000	-0.00782	0.94914
X6	-0.01367	-0.04702	0.00000	-0.02099	0.01210
X7	-0.06342	-0.00574	0.00000	0.01419	-0.00668
X8	-0.03973	0.04636	0.00000	-0.00177	-0.02514
X9	-0.00384	0.00049	0.00000	0.03470	-0.00575
X10	-0.04213	0.06489	0.00000	-0.00731	-0.05645

N1: 2 common factors: ML

246

Initial Factor Method: Maximum Likelihood

Residual Correlations With Uniqueness on the Diagonal

	X6	X7	X8	X9	X10
X1	-0.01367	-0.06342	-0.03973	-0.00384	-0.04213
X2	-0.04702	-0.00574	0.04636	0.00049	0.06489
X3	0.00000	0.00000	0.00000	0.00000	0.00000
X4	-0.02099	0.01419	-0.00177	0.03470	-0.00731
X5	0.01210	-0.00668	-0.02514	-0.00575	-0.05645
X6	0.95741	0.03828	0.00632	0.00008	-0.05219
X7	0.03828	0.95345	0.03727	-0.00842	-0.06034
X8	0.00632	0.03727	0.92362	0.07421	0.03739
X9	0.00008	-0.00842	0.07421	0.94686	-0.04153
X10	-0.05219	-0.06034	0.03739	-0.04153	0.97024

Root Mean Square Off-diagonal Residuals: Over-all = 0.03611822

	X1	X2	X3	X4	X5
	0.042785	0.045958	0.000000	0.042694	0.028811
	X6	X7	X8	X9	X10
	0.028311	0.034750	0.037561	0.030830	0.045599

Partial Correlations Controlling Factors

	X1	X2	X3	X4	X5
X1	1.00000	0.02813	0.00000	-0.09434	-0.01576
X2	0.02813	1.00000	0.00000	0.08729	0.05884
X3	0.00000	0.00000	0.00000	0.00000	0.00000
X4	-0.09434	0.08729	0.00000	1.00000	-0.00847
X5	-0.01576	0.05884	0.00000	-0.00847	1.00000
X6	-0.01404	-0.04921	0.00000	-0.02264	0.01269
X7	-0.06527	-0.00602	0.00000	0.01534	-0.00702
X8	-0.04154	0.04940	0.00000	-0.00194	-0.02685
X9	-0.00397	0.00052	0.00000	0.03763	-0.00607
X10	-0.04298	0.06747	0.00000	-0.00784	-0.05882
	X6	X7	X8	X9	X10
X1	-0.01404	-0.06527	-0.04154	-0.00397	-0.04298
X2	-0.04921	-0.00602	0.04940	0.00052	0.06747
X3	0.00000	0.00000	0.00000	0.00000	0.00000
X4	-0.02264	0.01534	-0.00194	0.03763	-0.00784
X5	0.01269	-0.00702	-0.02685	-0.00607	-0.05882
X6	1.00000	0.04007	0.00672	0.00009	-0.05415
X7	0.04007	1.00000	0.03972	-0.00886	-0.06273
X8	0.00672	0.03972	1.00000	0.07935	0.03950
X9	0.00009	-0.00886	0.07935	1.00000	-0.04333
X10	-0.05415	-0.06273	0.03950	-0.04333	1.00000

N1: 2 common factors: ML 247

Initial Factor Method: Maximum Likelihood

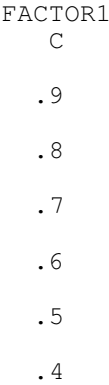
Root Mean Square Off-diagonal Partials: Over-all = 0.03805124

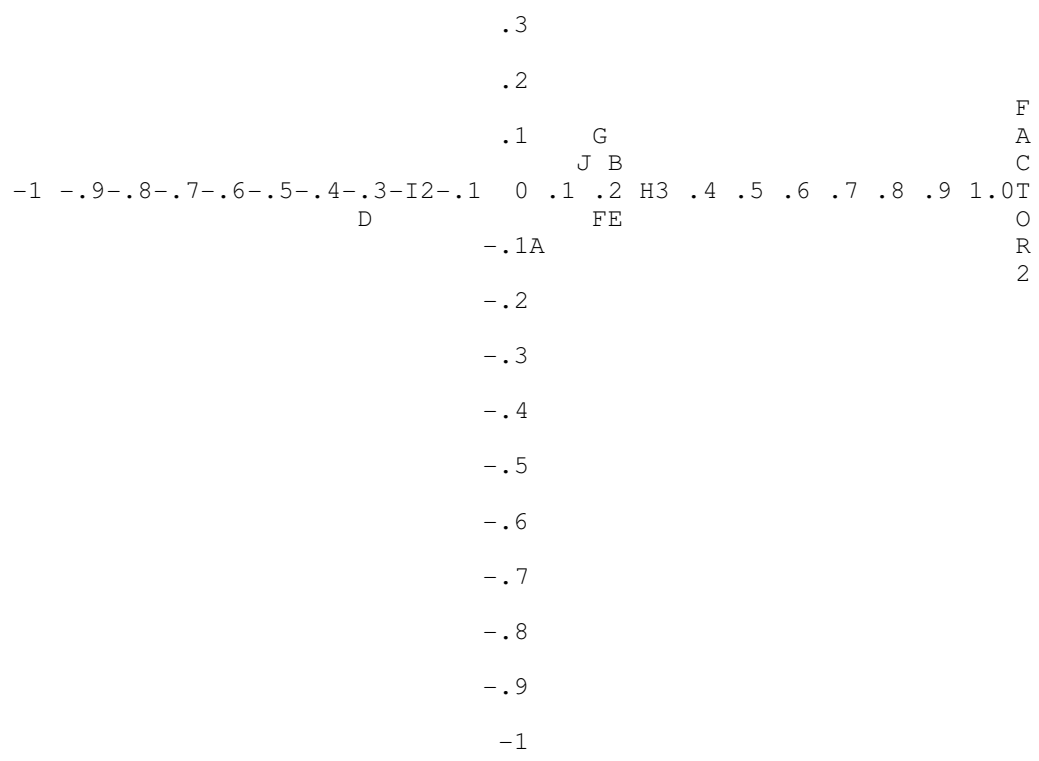
	X1	X2	X3	X4	X5
	0.044704	0.048674	0.000000	0.045730	0.030204
	X6	X7	X8	X9	X10
	0.029580	0.036175	0.039959	0.032866	0.047406

N1: 2 common factors: ML 248

Initial Factor Method: Maximum Likelihood

Plot of Factor Pattern for FACTOR1 and FACTOR2





X1 =A X2 =B X3 =C X4 =D X5 =E
X6 =F X7 =G X8 =H X9 =I X10 =J

N1: 2 common factors: ML 249

Rotation Method: Varimax

Orthogonal Transformation Matrix

	1	2
1	0.97799	0.20865
2	-0.20865	0.97799

Rotated Factor Pattern

	FACTOR1	FACTOR2
X1	-0.09286	0.03079
X2	-0.00481	0.21545
X3	0.97799	0.20865
X4	0.00922	-0.31923
X5	-0.08053	0.21066
X6	-0.10430	0.17807
X7	0.05384	0.20893
X8	-0.06467	0.26870
X9	0.04552	-0.22598
X10	0.02532	0.17063

Variance explained by each factor

	FACTOR1	FACTOR2
Weighted	0.037439	0.450887
Unweighted	0.992357	0.464923

Final Communalities and Variable Weights
Total Communality: Weighted = 0.488326 Unweighted = 1.457280

	X1	X2	X3	X4	X5
Communalities	0.009570	0.046441	1.000000	0.101993	0.050862
Weight	1.009685	1.048610	.	1.113703	1.053590

	X6	X7	X8	X9	X10
Communality	0.042587	0.046549	0.076381	0.053139	0.029756
Weight	1.044505	1.048786	1.082601	1.056203	1.030644

Scoring Coefficients Estimated by Regression

Squared Multiple Correlations of the Variables with each Factor

	FACTOR1	FACTOR2	
	0.970112	0.343330	
N1: 2 common factors: ML			250

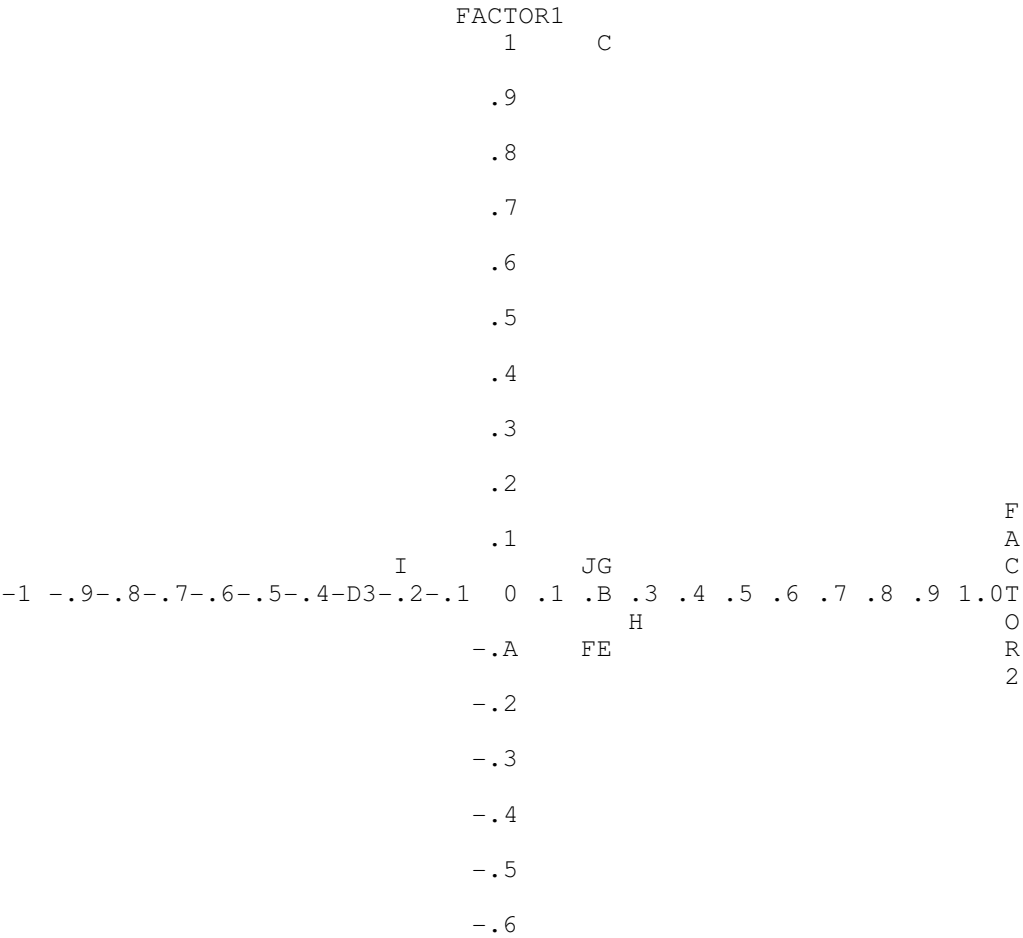
Rotation Method: Varimax

Standardized Scoring Coefficients

	FACTOR1	FACTOR2	
X1	-0.00716	0.03355	
X2	-0.03180	0.14906	
X3	0.98250	0.18752	
X4	0.05011	-0.23490	
X5	-0.03363	0.15763	
X6	-0.02931	0.13740	
X7	-0.02901	0.13598	
X8	-0.04285	0.20083	
X9	0.03487	-0.16347	
X10	-0.02386	0.11183	
N1: 2 common factors: ML			251

Rotation Method: Varimax

Plot of Factor Pattern for FACTOR1 and FACTOR2



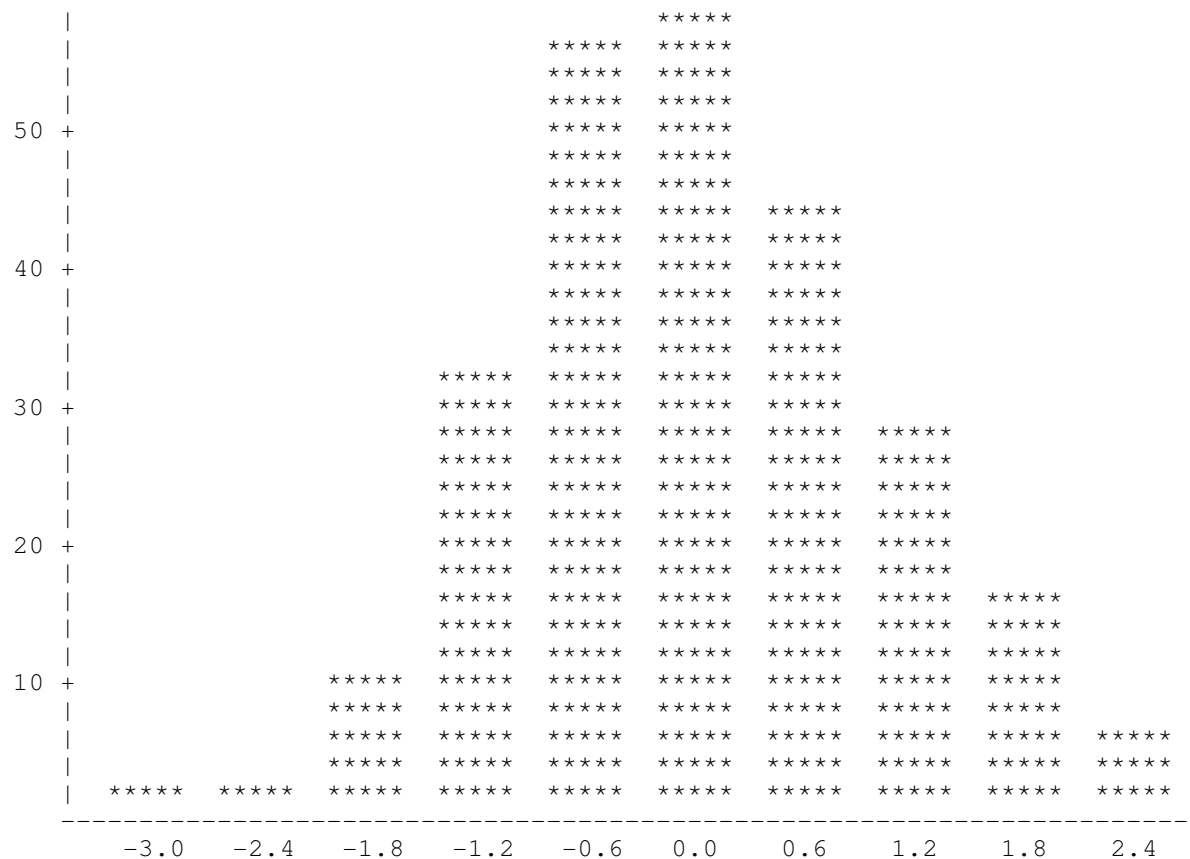
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-0.7
-0.8
-0.9
-1

X1      =A      X2      =B      X3      =C      X4      =D      X5      =E
X6      =F      X7      =G      X8      =H      X9      =I      X10     =J

N1: 2 common factors: ML
252
```

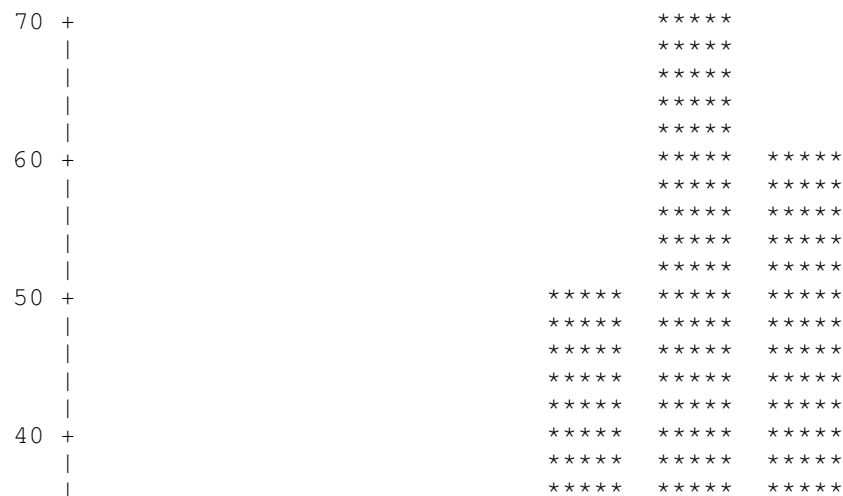
Frequency

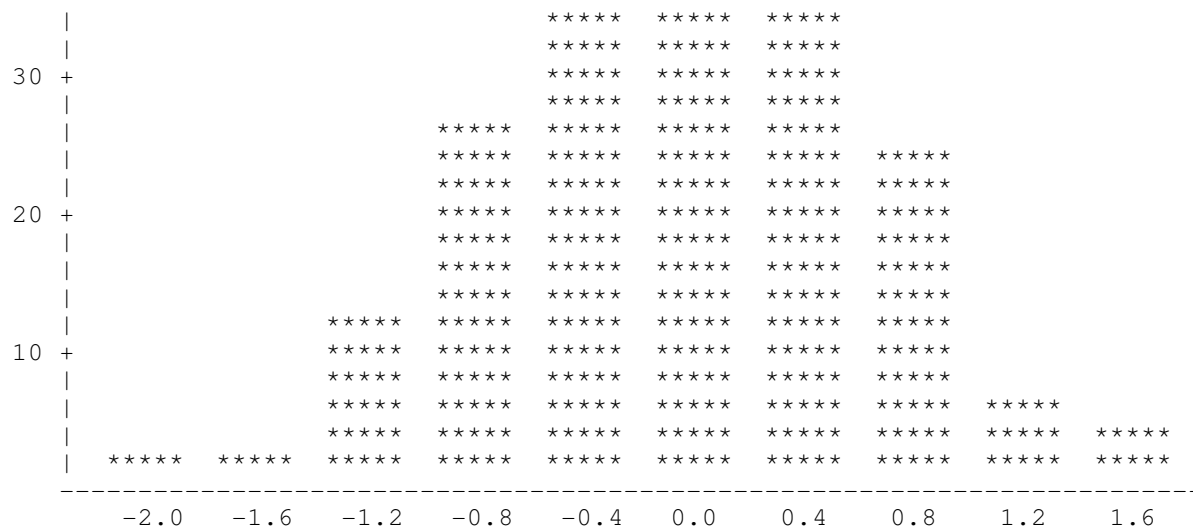


```

N1: 2 common factors: ML
253
```

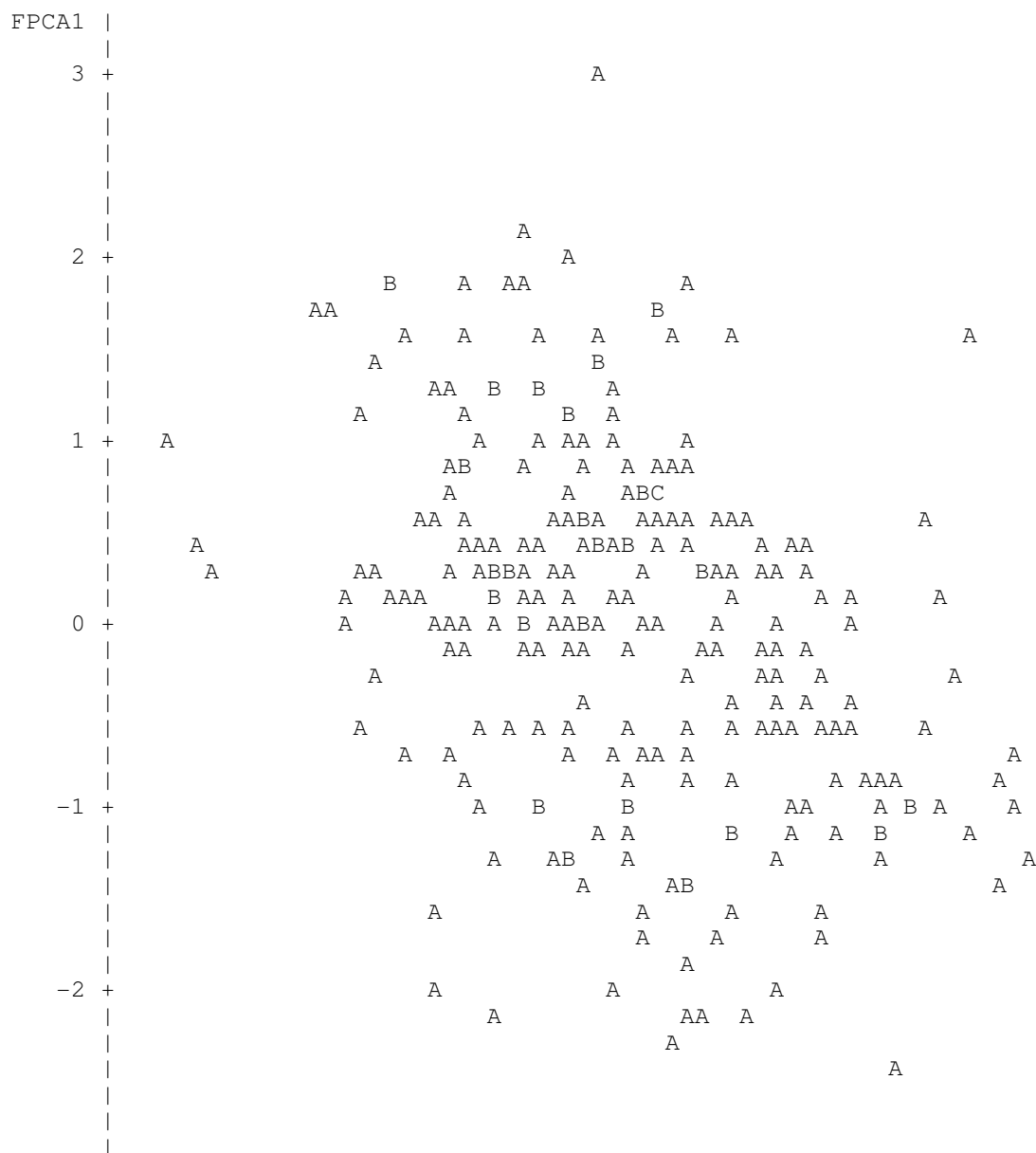
Frequency

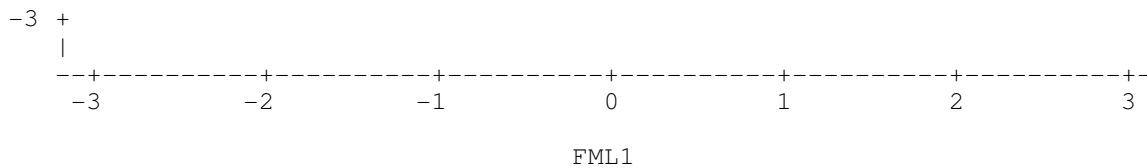




254

Plot of FPCA1*FML1. Legend: A = 1 obs, B = 2 obs, etc.

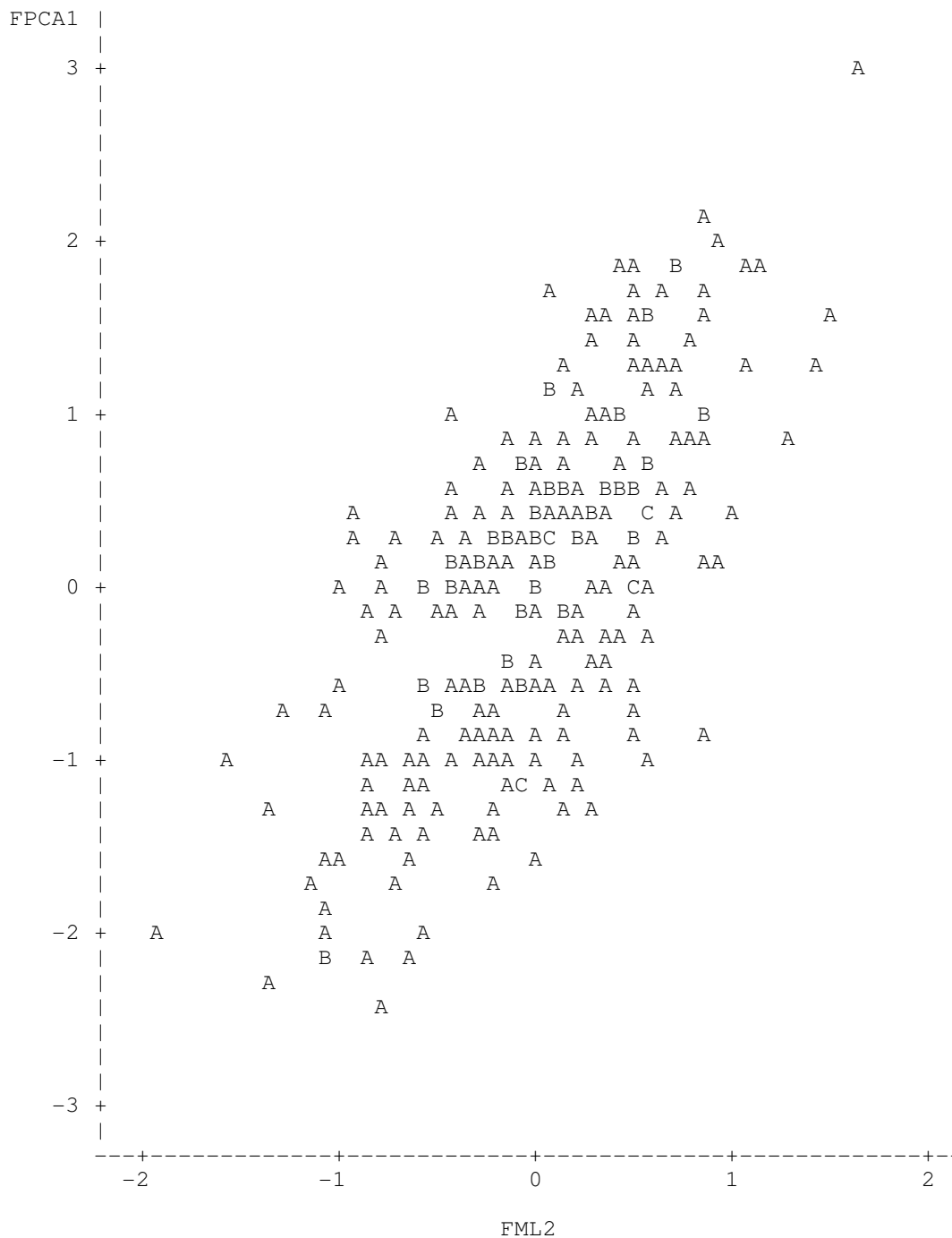




N1: Comparing factors by method

255

Plot of FPCA1*FML2. Legend: A = 1 obs, B = 2 obs, etc.

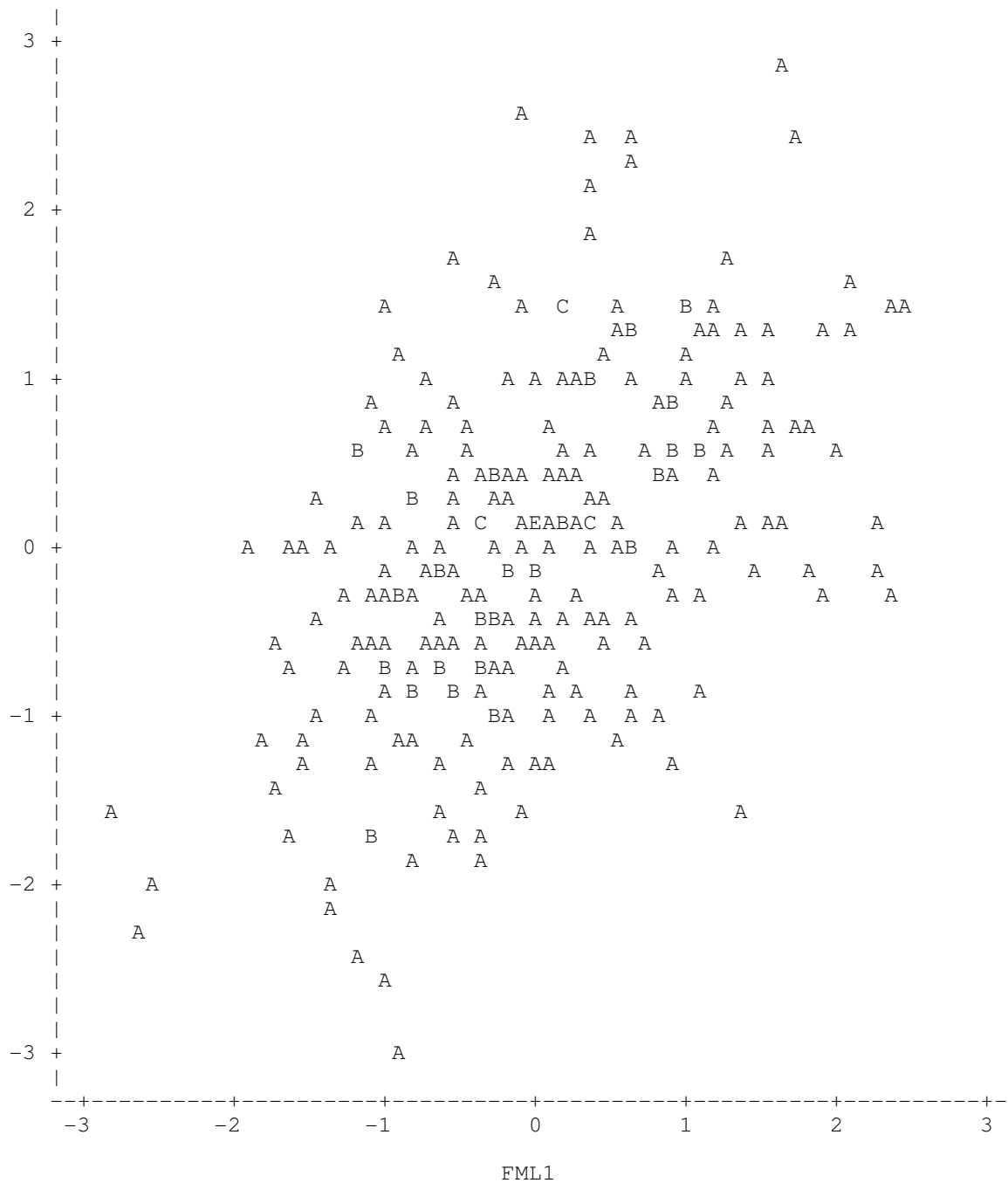


N1: Comparing factors by method

256

Plot of FPCA2*FML1. Legend: A = 1 obs, B = 2 obs, etc.

FPCA2 |

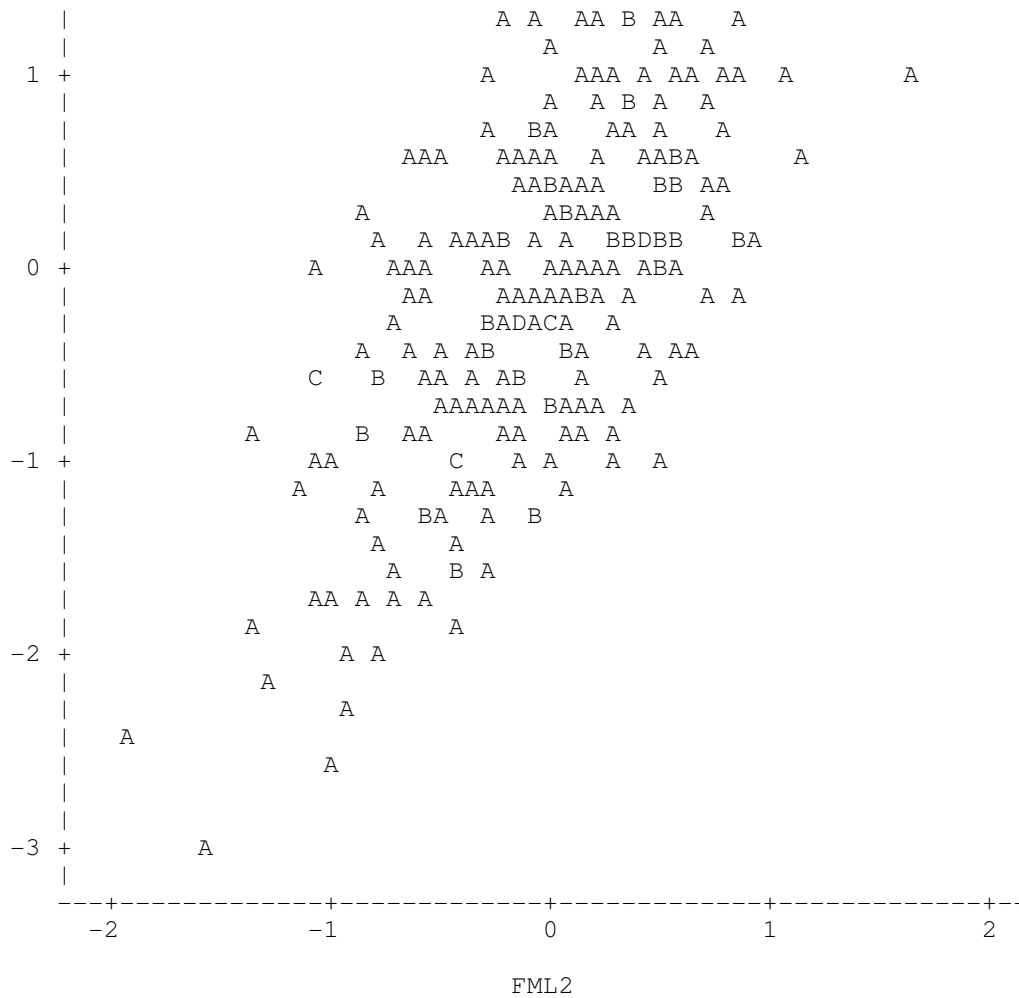


N1: Comparing factors by method

257

Plot of FPCA2*FML2. Legend: A = 1 obs, B = 2 obs, etc.





N2: 2 common factors: PCA

258

Initial Factor Method: Principal Components

Partial Correlations Controlling all other Variables

	X1	X2	X3	X4	X5
X1	1.00000	0.76909	-0.02199	0.53242	-0.03024
X2	0.76909	1.00000	0.04186	0.04588	0.10369
X3	-0.02199	0.04186	1.00000	-0.06992	-0.04105
X4	0.53242	0.04588	-0.06992	1.00000	-0.07158
X5	-0.03024	0.10369	-0.04105	-0.07158	1.00000
X6	-0.19689	-0.01540	-0.07128	-0.06917	0.04510
X7	0.00524	0.02965	0.09605	-0.03611	0.02001
X8	-0.01916	0.09740	-0.02698	-0.08328	0.01767
X9	-0.03680	-0.03948	0.00962	0.09621	-0.04472
X10	-0.05557	0.09566	0.05092	-0.05673	-0.03900
	X6	X7	X8	X9	X10
X1	-0.19689	0.00524	-0.01916	-0.03680	-0.05557
X2	-0.01540	0.02965	0.09740	-0.03948	0.09566
X3	-0.07128	0.09605	-0.02698	0.00962	0.05092
X4	-0.06917	-0.03611	-0.08328	0.09621	-0.05673
X5	0.04510	0.02001	0.01767	-0.04472	-0.03900
X6	1.00000	0.06439	0.05045	-0.03508	-0.02740
X7	0.06439	1.00000	0.08221	-0.04906	-0.04525
X8	0.05045	0.08221	1.00000	0.03733	0.07355
X9	-0.03508	-0.04906	0.03733	1.00000	-0.07561
X10	-0.02740	-0.04525	0.07355	-0.07561	1.00000

Kaiser's Measure of Sampling Adequacy: Over-all MSA = 0.82711787

X1	X2	X3	X4	X5
0.741275	0.804052	0.588893	0.888261	0.270284
X6	X7	X8	X9	X10
0.972810	0.607433	0.394391	0.350586	0.406057

Prior Communality Estimates: ONE

Eigenvalues of the Correlation Matrix: Total = 10 Average = 1

	1	2	3	4	5
Eigenvalue	3.7323	1.1680	1.0679	1.0402	1.0119
Difference	2.5643	0.1001	0.0277	0.0283	0.1035
Proportion	0.3732	0.1168	0.1068	0.1040	0.1012
Cumulative	0.3732	0.4900	0.5968	0.7008	0.8020
	6	7	8	9	10
Eigenvalue	0.9084	0.7923	0.2149	0.0491	0.0151
Difference	0.1161	0.5774	0.1659	0.0339	
Proportion	0.0908	0.0792	0.0215	0.0049	0.0015
Cumulative	0.8929	0.9721	0.9936	0.9985	1.0000

2 factors will be retained by the NFACTOR criterion.

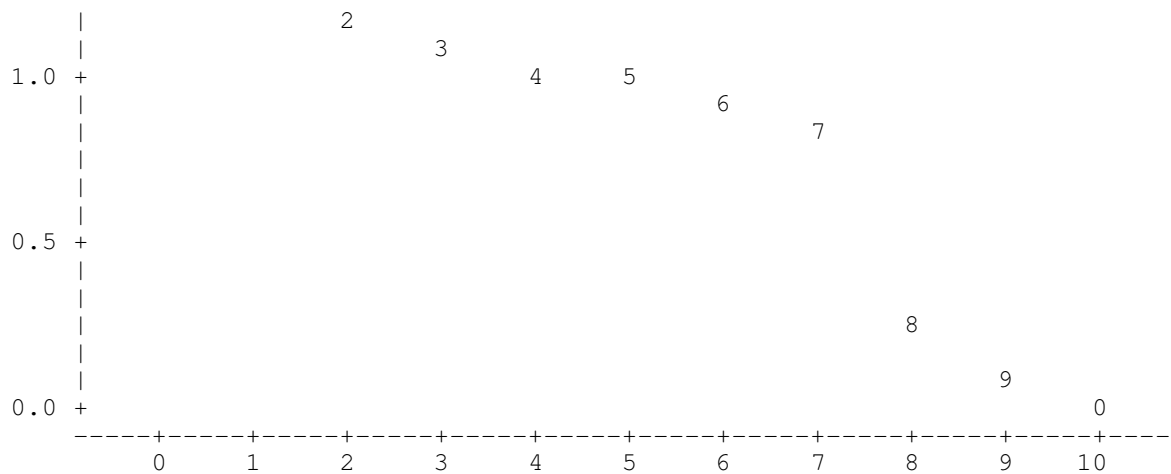
N2: 2 common factors: PCA

259

Initial Factor Method: Principal Components

Scree Plot of Eigenvalues





Number
N2: 2 common factors: PCA

260

Initial Factor Method: Principal Components

Eigenvectors

	1	2
X1	0.51044	0.04570
X2	0.50566	0.07522
X3	-0.05659	0.31924
X4	0.50454	0.00430
X5	-0.00621	0.22938
X6	-0.47090	-0.01233
X7	-0.05333	0.50764
X8	-0.02622	0.47150
X9	-0.00117	-0.42525
X10	-0.02597	0.42035

Factor Pattern

	FACTOR1	FACTOR2
X1	0.98613	0.04939
X2	0.97689	0.08129
X3	-0.10932	0.34501
X4	0.97473	0.00465
X5	-0.01199	0.24790
X6	-0.90973	-0.01333
X7	-0.10302	0.54862
X8	-0.05066	0.50956
X9	-0.00226	-0.45958
X10	-0.05017	0.45429

Variance explained by each factor

FACTOR1	FACTOR2
3.732288	1.167954

Final Communality Estimates: Total = 4.900242

X1	X2	X3	X4	X5
0.974892	0.960928	0.130982	0.950127	0.061598
X6	X7	X8	X9	X10
0.827792	0.311597	0.262220	0.211214	0.208892

N2: 2 common factors: PCA

261

Initial Factor Method: Principal Components

Residual Correlations With Uniqueness on the Diagonal

	X1	X2	X3	X4	X5
X1	0.02511	0.01428	0.00637	0.00538	-0.00174
X2	0.01428	0.03907	0.00414	-0.00276	0.00970
X3	0.00637	0.00414	0.86902	0.00642	-0.12165
X4	0.00538	-0.00276	0.00642	0.04987	-0.01023
X5	-0.00174	0.00970	-0.12165	-0.01023	0.93840
X6	0.04684	0.05366	-0.05705	0.05350	0.02399
X7	0.01251	0.00305	-0.10430	0.02300	-0.10424
X8	-0.00067	0.00320	-0.18853	-0.00088	-0.09026
X9	0.00990	0.01567	0.15568	0.01696	0.05688
X10	-0.01220	-0.00679	-0.10186	-0.00795	-0.13576
	X6	X7	X8	X9	X10
X1	0.04684	0.01251	-0.00067	0.00990	-0.01220
X2	0.05366	0.00305	0.00320	0.01567	-0.00679
X3	-0.05705	-0.10430	-0.18853	0.15568	-0.10186
X4	0.05350	0.02300	-0.00088	0.01696	-0.00795
X5	0.02399	-0.10424	-0.09026	0.05688	-0.13576
X6	0.17221	0.00309	0.01439	-0.01897	-0.01901
X7	0.00309	0.68840	-0.19484	0.19872	-0.27772
X8	0.01439	-0.19484	0.73778	0.24461	-0.15243
X9	-0.01897	0.19872	0.24461	0.78879	0.12973
X10	-0.01901	-0.27772	-0.15243	0.12973	0.79111

Root Mean Square Off-diagonal Residuals: Over-all = 0.09496552

	X1	X2	X3	X4	X5
	0.017870	0.019759	0.104978	0.020885	0.079060
	X6	X7	X8	X9	X10
	0.037570	0.140251	0.135376	0.126762	0.127636

Partial Correlations Controlling Factors

	X1	X2	X3	X4	X5
X1	1.00000	0.45597	0.04315	0.15197	-0.01132
X2	0.45597	1.00000	0.02249	-0.06261	0.05064
X3	0.04315	0.02249	1.00000	0.03084	-0.13471
X4	0.15197	-0.06261	0.03084	1.00000	-0.04731
X5	-0.01132	0.05064	-0.13471	-0.04731	1.00000
X6	0.71234	0.65421	-0.14746	0.57732	0.05967
X7	0.09512	0.01857	-0.13485	0.12412	-0.12969
X8	-0.00493	0.01883	-0.23545	-0.00461	-0.10848
X9	0.07032	0.08926	0.18804	0.08550	0.06611
X10	-0.08654	-0.03865	-0.12284	-0.04001	-0.15756

N2: 2 common factors: PCA

262

Initial Factor Method: Principal Components

Partial Correlations Controlling Factors

	X6	X7	X8	X9	X10
X1	0.71234	0.09512	-0.00493	0.07032	-0.08654
X2	0.65421	0.01857	0.01883	0.08926	-0.03865
X3	-0.14746	-0.13485	-0.23545	0.18804	-0.12284
X4	0.57732	0.12412	-0.00461	0.08550	-0.04001
X5	0.05967	-0.12969	-0.10848	0.06611	-0.15756
X6	1.00000	0.00897	0.04036	-0.05146	-0.05151
X7	0.00897	1.00000	-0.27340	0.26967	-0.37633

X8	0.04036	-0.27340	1.00000	0.32065	-0.19952
X9	-0.05146	0.26967	0.32065	1.00000	0.16422
X10	-0.05151	-0.37633	-0.19952	0.16422	1.00000

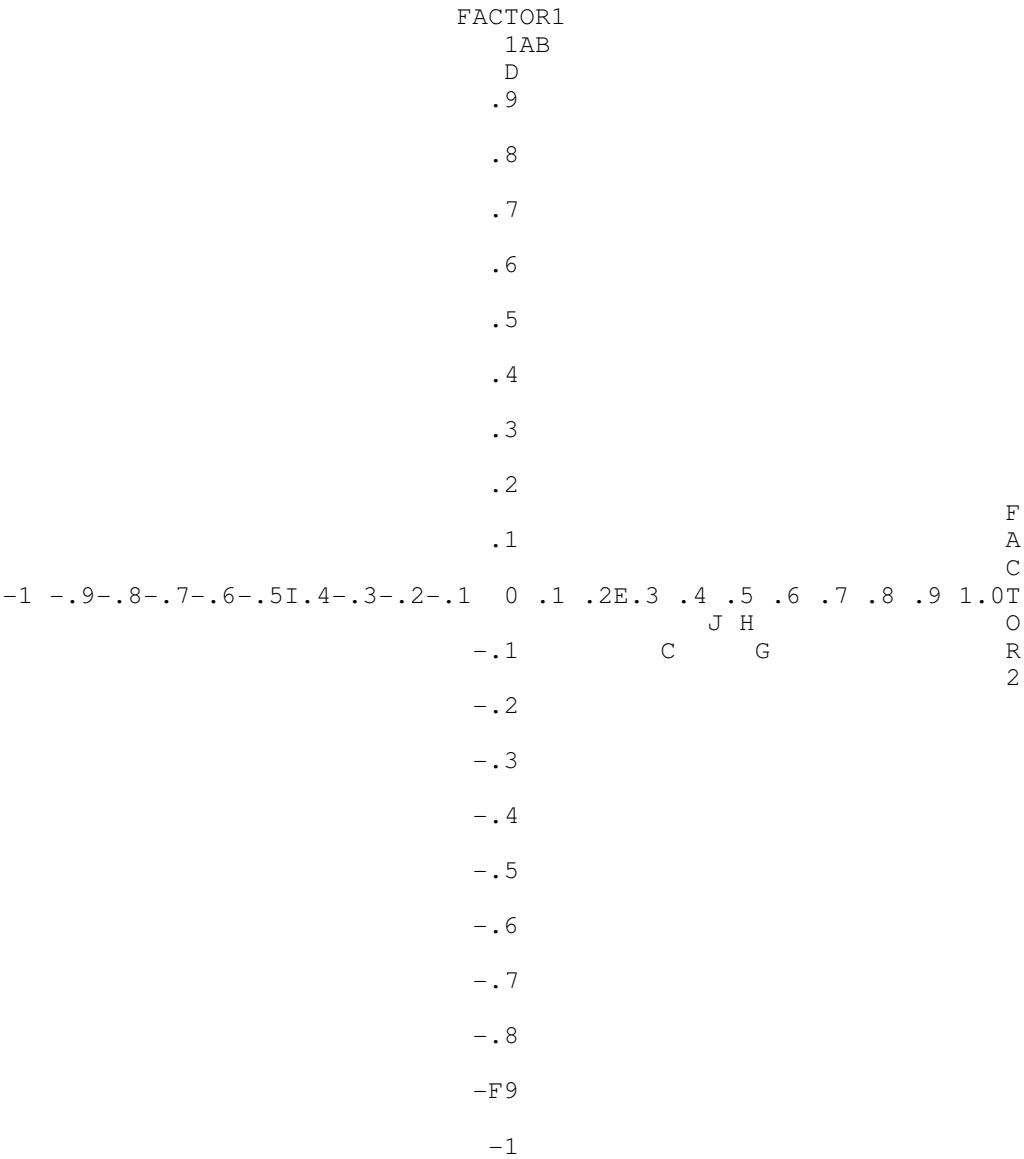
Root Mean Square Off-diagonal Partial: Over-all = 0.22404901

X1	X2	X3	X4	X5
0.290963	0.269371	0.136332	0.207589	0.096852
X6	X7	X8	X9	X10
0.380210	0.196916	0.178452	0.171630	0.170476

N2: 2 common factors: PCA 263

Initial Factor Method: Principal Components

Plot of Factor Pattern for FACTOR1 and FACTOR2



X1	=A	X2	=B	X3	=C	X4	=D	X5	=E
X6	=F	X7	=G	X8	=H	X9	=I	X10	=J

N2: 2 common factors: PCA 264

Rotation Method: Varimax

Orthogonal Transformation Matrix

	1	2
1	0.99690	-0.07864
2	0.07864	0.99690

Rotated Factor Pattern

	FACTOR1	FACTOR2
X1	0.98696	-0.02831
X2	0.98026	0.00422
X3	-0.08185	0.35254
X4	0.97208	-0.07202
X5	0.00754	0.24808
X6	-0.90796	0.05825
X7	-0.05956	0.55502
X8	-0.01043	0.51197
X9	-0.03839	-0.45797
X10	-0.01429	0.45682

Variance explained by each factor

FACTOR1	FACTOR2
3.716430	1.183812

Final Community Estimates: Total = 4.900242

X1	X2	X3	X4	X5
0.974892	0.960928	0.130982	0.950127	0.061598
X6	X7	X8	X9	X10
0.827792	0.311597	0.262220	0.211214	0.208892

Scoring Coefficients Estimated by Regression

Squared Multiple Correlations of the Variables with each Factor

FACTOR1	FACTOR2
1.000000	1.000000
N2: 2 common factors: PCA	

265

Rotation Method: Varimax

Standardized Scoring Coefficients

	FACTOR1	FACTOR2
X1	0.26672	0.02138
X2	0.26640	0.04880
X3	-0.00597	0.29678
X4	0.26067	-0.01657
X5	0.01349	0.21185
X6	-0.24389	0.00779
X7	0.00942	0.47044
X8	0.02078	0.43600
X9	-0.03155	-0.39222
X10	0.01719	0.38881

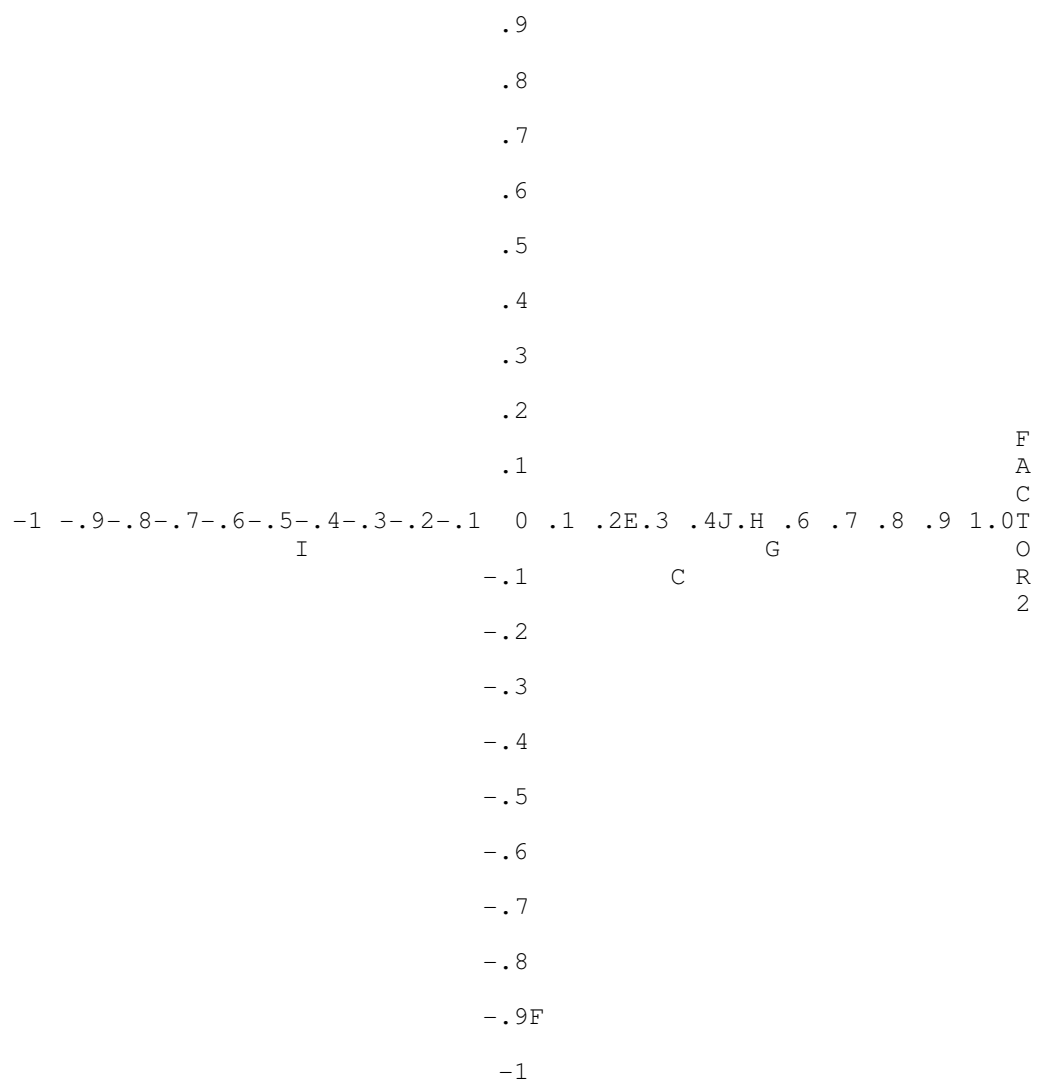
N2: 2 common factors: PCA

266

Rotation Method: Varimax

Plot of Factor Pattern for FACTOR1 and FACTOR2

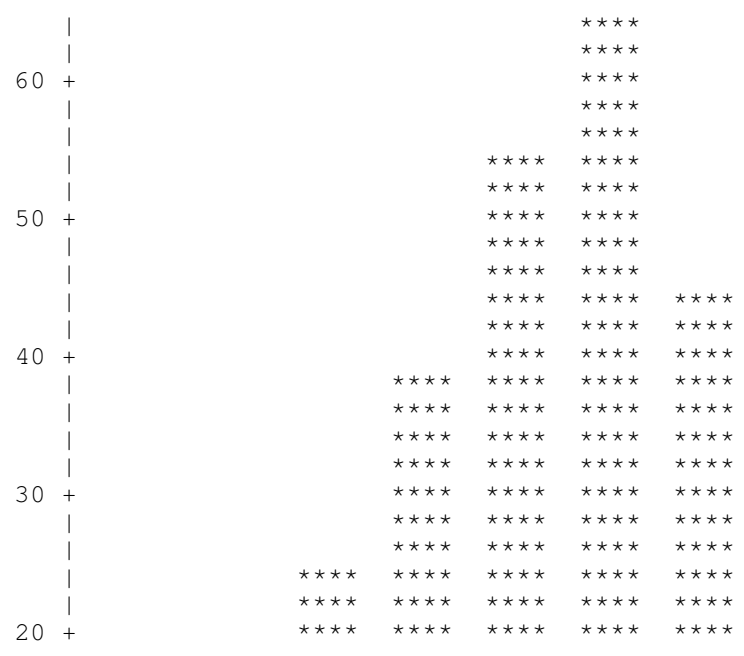
FACTOR1
AB
D

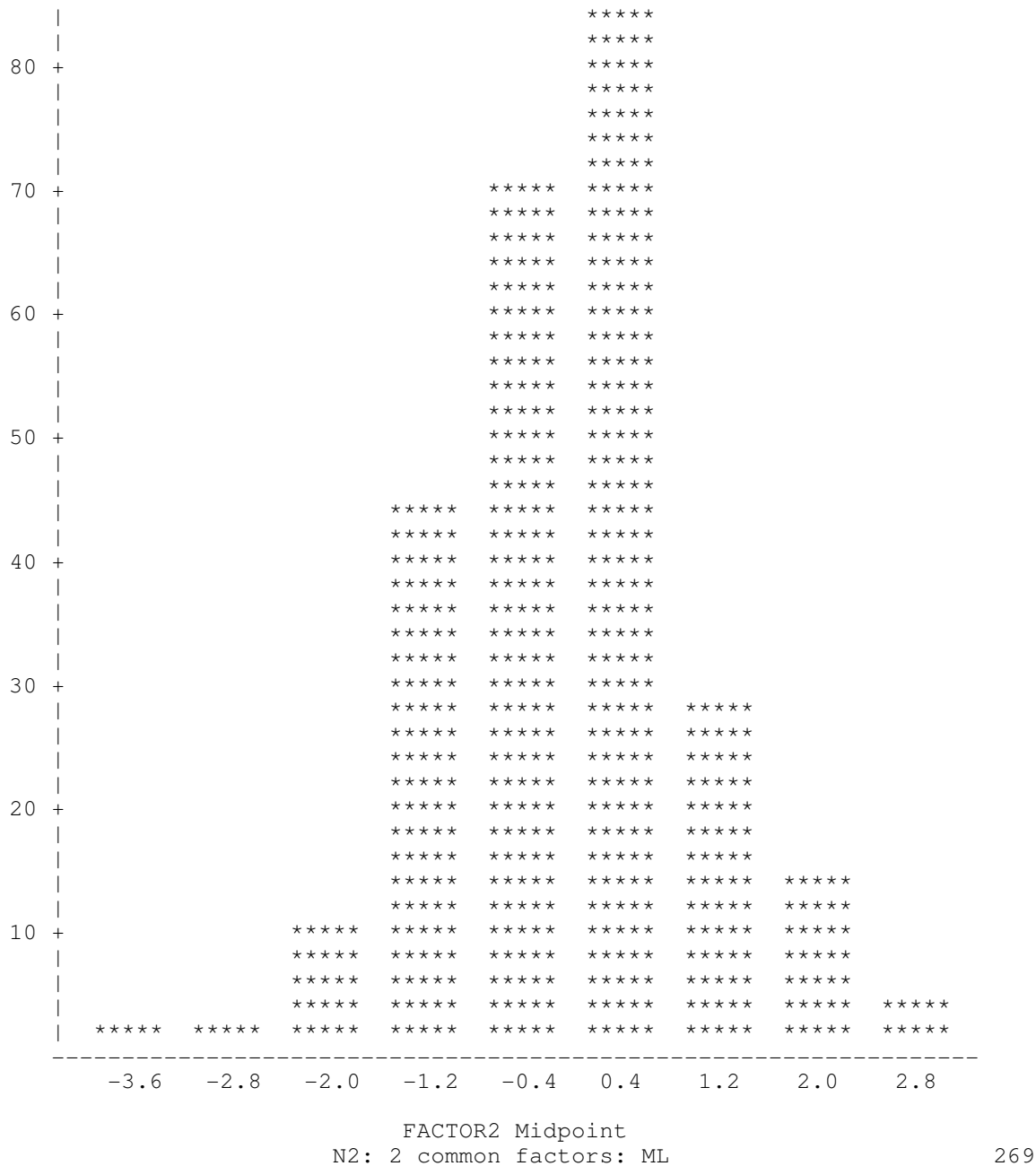
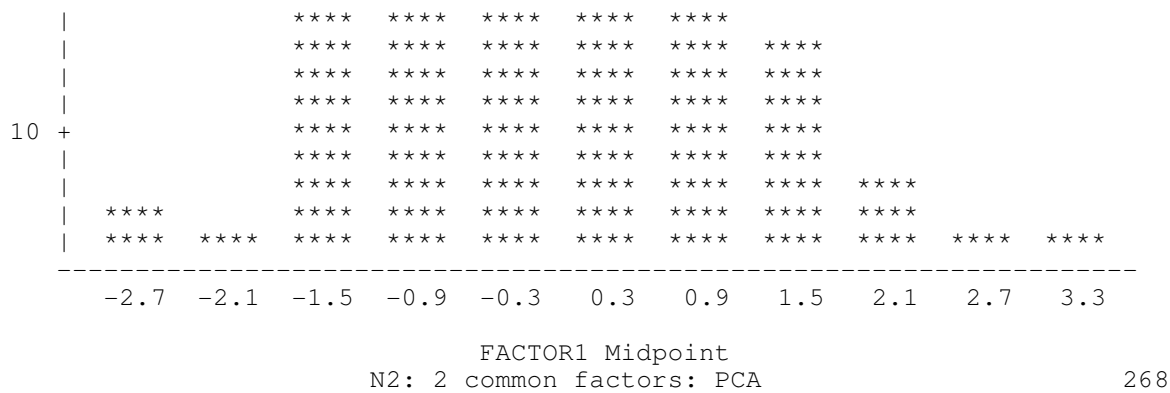


X1	=A	X2	=B	X3	=C	X4	=D	X5	=E
X6	=F	X7	=G	X8	=H	X9	=I	X10	=J

N2: 2 common factors: PCA 267

Frequency





Initial Factor Method: Maximum Likelihood

Partial Correlations Controlling all other Variables

	X1	X2	X3	X4	X5
X1	1.00000	0.76909	-0.02199	0.53242	-0.03024
X2	0.76909	1.00000	0.04186	0.04588	0.10369
X3	-0.02199	0.04186	1.00000	-0.06992	-0.04105
X4	0.53242	0.04588	-0.06992	1.00000	-0.07158
X5	-0.03024	0.10369	-0.04105	-0.07158	1.00000
X6	-0.19689	-0.01540	-0.07128	-0.06917	0.04510
X7	0.00524	0.02965	0.09605	-0.03611	0.02001
X8	-0.01916	0.09740	-0.02698	-0.08328	0.01767
X9	-0.03680	-0.03948	0.00962	0.09621	-0.04472
X10	-0.05557	0.09566	0.05092	-0.05673	-0.03900
	X6	X7	X8	X9	X10
X1	-0.19689	0.00524	-0.01916	-0.03680	-0.05557
X2	-0.01540	0.02965	0.09740	-0.03948	0.09566
X3	-0.07128	0.09605	-0.02698	0.00962	0.05092
X4	-0.06917	-0.03611	-0.08328	0.09621	-0.05673
X5	0.04510	0.02001	0.01767	-0.04472	-0.03900
X6	1.00000	0.06439	0.05045	-0.03508	-0.02740
X7	0.06439	1.00000	0.08221	-0.04906	-0.04525
X8	0.05045	0.08221	1.00000	0.03733	0.07355
X9	-0.03508	-0.04906	0.03733	1.00000	-0.07561
X10	-0.02740	-0.04525	0.07355	-0.07561	1.00000

Kaiser's Measure of Sampling Adequacy: Over-all MSA = 0.82711787

	X1	X2	X3	X4	X5
	0.741275	0.804052	0.588893	0.888261	0.270284
	X6	X7	X8	X9	X10
	0.972810	0.607433	0.394391	0.350586	0.406057

Prior Communality Estimates: SMC

	X1	X2	X3	X4	X5
	0.976820	0.964939	0.031480	0.937335	0.024931
	X6	X7	X8	X9	X10
	0.730369	0.032153	0.036022	0.025594	0.032692

Preliminary Eigenvalues: Total = 87.5173452 Average = 8.75173452

	1	2	3	4	5
Eigenvalue	87.7943	0.4227	0.1588	0.0816	0.0490
Difference	87.3715	0.2639	0.0772	0.0326	0.0740
Proportion	1.0032	0.0048	0.0018	0.0009	0.0006
Cumulative	1.0032	1.0080	1.0098	1.0107	1.0113
N2: 2 common factors: ML					270

Initial Factor Method: Maximum Likelihood

	6	7	8	9	10
Eigenvalue	-0.0250	-0.1097	-0.1596	-0.2104	-0.4845
Difference	0.0848	0.0498	0.0509	0.2741	
Proportion	-0.0003	-0.0013	-0.0018	-0.0024	-0.0055
Cumulative	1.0110	1.0098	1.0079	1.0055	1.0000

2 factors will be retained by the NFACTOR criterion.

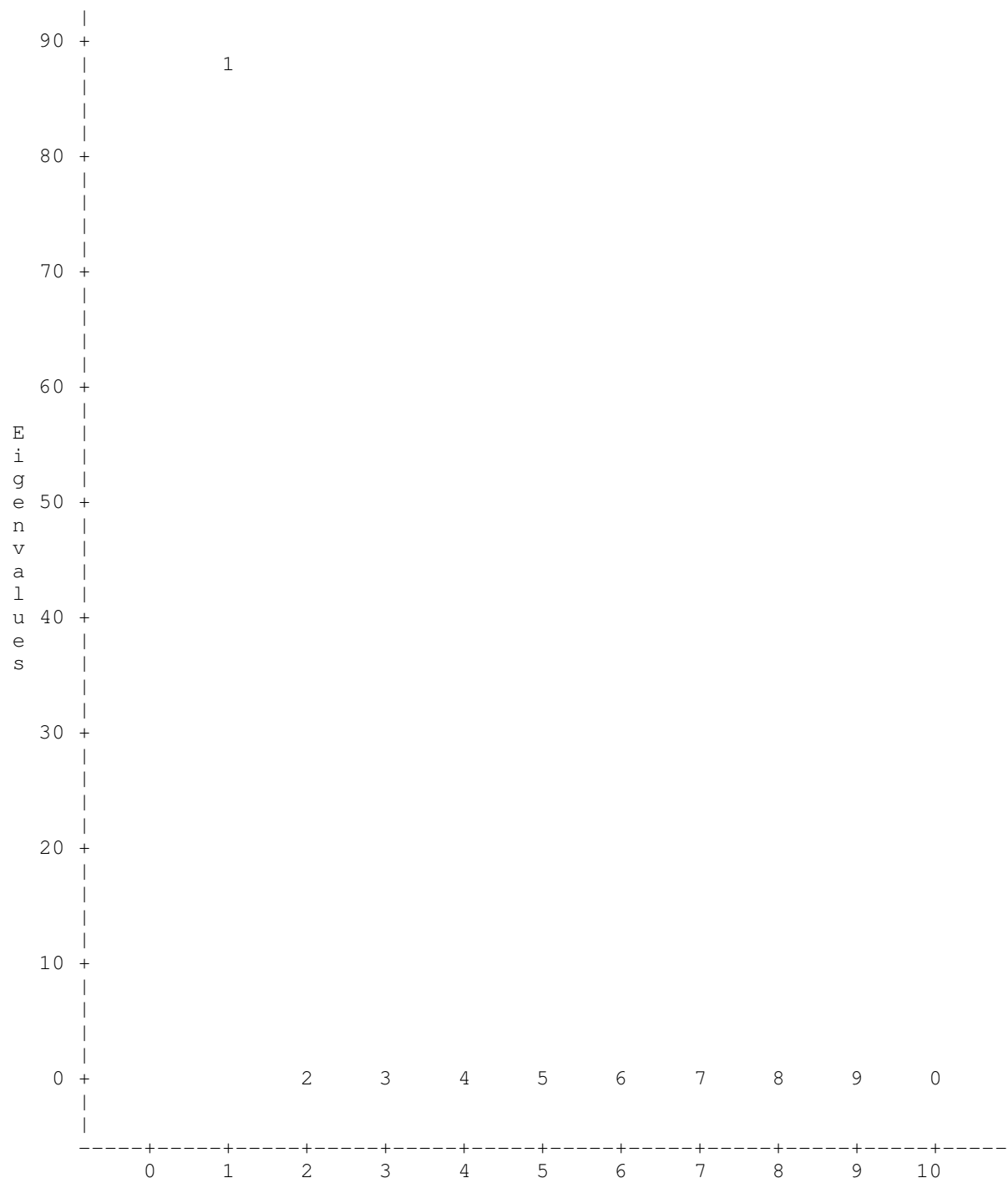
N2: 2 common factors: ML

271

Initial Factor Method: Maximum Likelihood

Scree Plot of Eigenvalues

|



Number
N2: 2 common factors: ML

272

Initial Factor Method: Maximum Likelihood

Iter	Criterion	Ridge	Change	Communalities					
1	0.05143	0.000	0.03002	0.99271	0.97555	0.01528	0.94985	0.03164	
				0.73430	0.04407	0.06604	0.04096	0.03153	
2	0.05105	0.000	0.00894	0.99200	0.97713	0.01785	0.95134	0.03878	
				0.73423	0.03513	0.06538	0.03910	0.03935	
3	0.05105	0.000	0.00148	0.99191	0.97736	0.01809	0.95144	0.03949	
				0.73403	0.03365	0.06513	0.03874	0.04020	
4	0.05105	0.000	0.00020	0.99189	0.97739	0.01810	0.95144	0.03959	

0.73401 0.03345 0.06510 0.03863 0.04032

Convergence criterion satisfied.

Significance tests based on 250 observations:

Test of H0: No common factors.
vs HA: At least one common factor.

Chi-square = 1832.121 df = 45 Prob>chi**2 = 0.0001

Test of H0: 2 Factors are sufficient.
vs HA: More factors are needed.

Chi-square = 12.430 df = 26 Prob>chi**2 = 0.9885

Chi-square without Bartlett's correction = 12.710783587
Akaike's Information Criterion = -39.28921641
Schwarz's Bayesian Criterion = -130.8472003
Tucker and Lewis's Reliability Coefficient = 1.0131420898

Squared Canonical Correlations

FACTOR1	FACTOR2
0.994695	0.407269

Eigenvectors

	1	2
X1	0.99857	-0.00982
X2	0.04467	0.62731
X3	-0.00174	0.13760
X4	0.02787	-0.58490
X5	-0.00045	0.20808
X6	-0.00893	0.16316
X7	-0.00034	0.18397
X8	-0.00015	0.25601
X9	-0.00006	-0.20173
X10	-0.00020	0.18802

N2: 2 common factors: ML

273

Initial Factor Method: Maximum Likelihood

Eigenvalues of the Weighted Reduced Correlation Matrix:

Total = 188.188962 Average = 18.8188962

	1	2	3	4	5
Eigenvalue	187.5019	0.6871	0.1696	0.0940	0.0883
Difference	186.8148	0.5175	0.0756	0.0057	0.0600
Proportion	0.9963	0.0037	0.0009	0.0005	0.0005
Cumulative	0.9963	1.0000	1.0009	1.0014	1.0019

	6	7	8	9	10
Eigenvalue	0.0283	-0.0086	-0.0632	-0.1245	-0.1838
Difference	0.0369	0.0546	0.0613	0.0594	
Proportion	0.0002	-0.0000	-0.0003	-0.0007	-0.0010
Cumulative	1.0020	1.0020	1.0016	1.0010	1.0000

Factor Pattern

	FACTOR1	FACTOR2
X1	0.99592	-0.00627
X2	0.98613	0.07021
X3	-0.08385	0.10523
X4	0.97016	-0.10111
X5	0.00061	0.19901

X6	-0.85347	0.07480
X7	-0.06251	0.17181
X8	-0.02389	0.25404
X9	-0.01384	-0.19602
X10	-0.03631	0.19753

Variance explained by each factor

	FACTOR1	FACTOR2
Weighted	187.50186	0.687106
Unweighted	3.646960	0.242963

Final Communalities Estimates and Variable Weights

Total Communalities: Weighted = 188.18896 Unweighted = 3.889923

	X1	X2	X3	X4	X5
Communalities	0.991894	0.977386	0.018104	0.951444	0.039607
Weight	123.36976	44.218885	1.018436	20.594738	1.041226

	X6	X7	X8	X9	X10
Communalities	0.734003	0.033428	0.065106	0.038616	0.040336
Weight	3.759480	1.034606	1.069635	1.040179	1.042016

N2: 2 common factors: ML

274

Initial Factor Method: Maximum Likelihood

Residual Correlations With Uniqueness on the Diagonal

	X1	X2	X3	X4	X5
X1	0.00811	-0.00003	-0.00022	-0.00002	-0.00068
X2	-0.00003	0.02261	0.00069	0.00021	0.00356
X3	-0.00022	0.00069	0.98190	-0.00655	-0.05570
X4	-0.00002	0.00021	-0.00655	0.04856	-0.00124
X5	-0.00068	0.00356	-0.05570	-0.00124	0.96039
X6	-0.00048	0.00025	-0.04162	0.00226	0.01723
X7	0.00135	-0.00341	0.07292	0.00315	-0.00116
X8	-0.00007	0.00086	-0.03592	0.00097	-0.01387
X9	-0.00247	0.00352	0.01684	0.00623	-0.01800
X10	-0.00183	0.00307	0.03653	0.00047	-0.06183

	X6	X7	X8	X9	X10
X1	-0.00048	0.00135	-0.00007	-0.00247	-0.00183
X2	0.00025	-0.00341	0.00086	0.00352	0.00307
X3	-0.04162	0.07292	-0.03592	0.01684	0.03653
X4	0.00226	0.00315	0.00097	0.00623	0.00047
X5	0.01723	-0.00116	-0.01387	-0.01800	-0.06183
X6	0.26600	0.02329	0.01429	-0.00794	-0.02520
X7	0.02329	0.96657	0.04479	-0.02037	-0.05953
X8	0.01429	0.04479	0.93489	0.06001	0.03056
X9	-0.00794	-0.02037	0.06001	0.96138	-0.04072
X10	-0.02520	-0.05953	0.03056	-0.04072	0.95966

Root Mean Square Off-diagonal Residuals: Over-all = 0.02644068

	X1	X2	X3	X4	X5
	0.001154	0.002296	0.038158	0.003325	0.029353

	X6	X7	X8	X9	X10
	0.019662	0.036286	0.030239	0.026671	0.036425

Partial Correlations Controlling Factors

	X1	X2	X3	X4	X5
X1	1.00000	-0.00205	-0.00251	-0.00092	-0.00767

X2	-0.00205	1.00000	0.00465	0.00641	0.02417
X3	-0.00251	0.00465	1.00000	-0.02998	-0.05736
X4	-0.00092	0.00641	-0.02998	1.00000	-0.00573
X5	-0.00767	0.02417	-0.05736	-0.00573	1.00000
X6	-0.01031	0.00321	-0.08145	0.01990	0.03408
X7	0.01521	-0.02309	0.07485	0.01454	-0.00120
X8	-0.00084	0.00588	-0.03749	0.00455	-0.01464
X9	-0.02797	0.02387	0.01733	0.02885	-0.01873
X10	-0.02071	0.02083	0.03763	0.00217	-0.06440

N2: 2 common factors: ML

275

Initial Factor Method: Maximum Likelihood

Partial Correlations Controlling Factors

	X6	X7	X8	X9	X10
X1	-0.01031	0.01521	-0.00084	-0.02797	-0.02071
X2	0.00321	-0.02309	0.00588	0.02387	0.02083
X3	-0.08145	0.07485	-0.03749	0.01733	0.03763
X4	0.01990	0.01454	0.00455	0.02885	0.00217
X5	0.03408	-0.00120	-0.01464	-0.01873	-0.06440
X6	1.00000	0.04594	0.02865	-0.01570	-0.04987
X7	0.04594	1.00000	0.04712	-0.02113	-0.06181
X8	0.02865	0.04712	1.00000	0.06330	0.03226
X9	-0.01570	-0.02113	0.06330	1.00000	-0.04239
X10	-0.04987	-0.06181	0.03226	-0.04239	1.00000

Root Mean Square Off-diagonal Partial: Over-all = 0.03325567

	X1	X2	X3	X4	X5
0.013417	0.015751	0.046638	0.016463	0.033069	
	X6	X7	X8	X9	X10
0.039402	0.041066	0.032938	0.032202	0.041603	

N2: 2 common factors: ML

276

Initial Factor Method: Maximum Likelihood

Plot of Factor Pattern for FACTOR1 and FACTOR2

FACTOR1
A1 B
D

.9
.8
.7
.6
.5
.4
.3
.2
.1

F
A
C
T
O
R
2

-1 -.9 -.8 -.7 -.6 -.5 -.4 -.3 -.2 -.1 0 .1 .2 .3 .4 .5 .6 .7 .8 .9 1.0

G
C

-.1
-.2

-.3

-.4

-.5

-.6

-.7

-.8

-.9

-1

F

X1	=A	X2	=B	X3	=C	X4	=D	X5	=E
X6	=F	X7	=G	X8	=H	X9	=I	X10	=G

N2: 2 common factors: ML

277

Rotation Method: Varimax

Orthogonal Transformation Matrix

	1	2
1	0.99907	-0.04301
2	0.04301	0.99907

Rotated Factor Pattern

	FACTOR1	FACTOR2
X1	0.99473	-0.04910
X2	0.98824	0.02773
X3	-0.07924	0.10874
X4	0.96492	-0.14275
X5	0.00917	0.19880
X6	-0.84946	0.11144
X7	-0.05507	0.17434
X8	-0.01294	0.25483
X9	-0.02226	-0.19524
X10	-0.02778	0.19891

Variance explained by each factor

	FACTOR1	FACTOR2
Weighted	187.15624	1.032722
Unweighted	3.629583	0.260340

Final Communalities Estimates and Variable Weights

Total Communalities: Weighted = 188.18896 Unweighted = 3.889923

	X1	X2	X3	X4	X5
Communalities	0.991894	0.977386	0.018104	0.951444	0.039607
Weight	123.36976	44.218885	1.018436	20.594738	1.041226
	X6	X7	X8	X9	X10
Communalities	0.734003	0.033428	0.065106	0.038616	0.040336
Weight	3.759480	1.034606	1.069635	1.040179	1.042016

Scoring Coefficients Estimated by Regression

Squared Multiple Correlations of the Variables with each Factor

	FACTOR1	FACTOR2
	0.993608	0.408356

N2: 2 common factors: ML

278

Rotation Method: Varimax

Standardized Scoring Coefficients

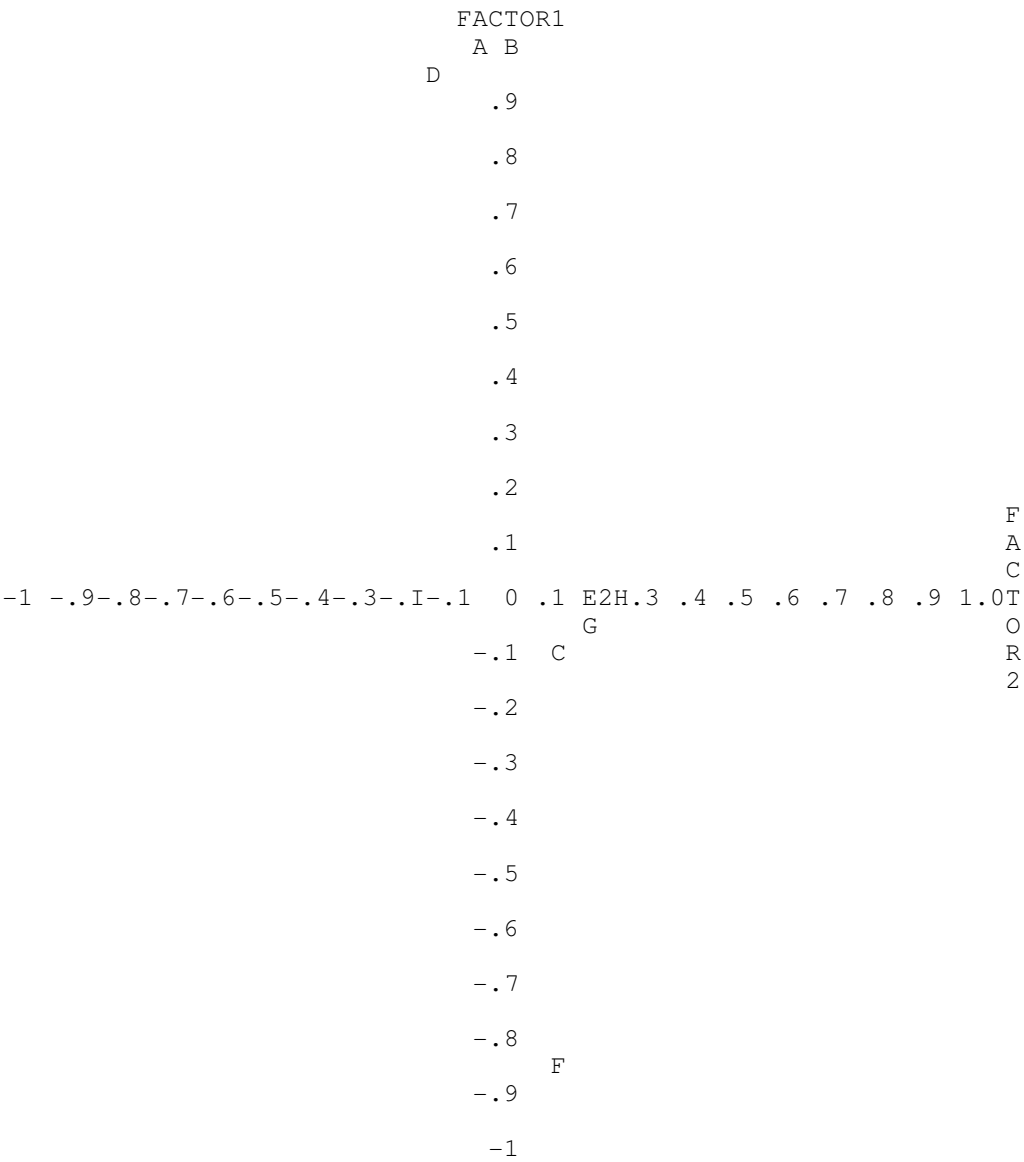
	FACTOR1	FACTOR2
X1	0.63149	-0.48594
X2	0.31026	1.82849
X3	0.00228	0.06348
X4	0.05281	-1.23771
X5	0.00529	0.12271
X6	-0.00984	0.16726
X7	0.00419	0.10528
X8	0.00679	0.16092
X9	-0.00527	-0.12074
X10	0.00505	0.12190

N2: 2 common factors: ML

279

Rotation Method: Varimax

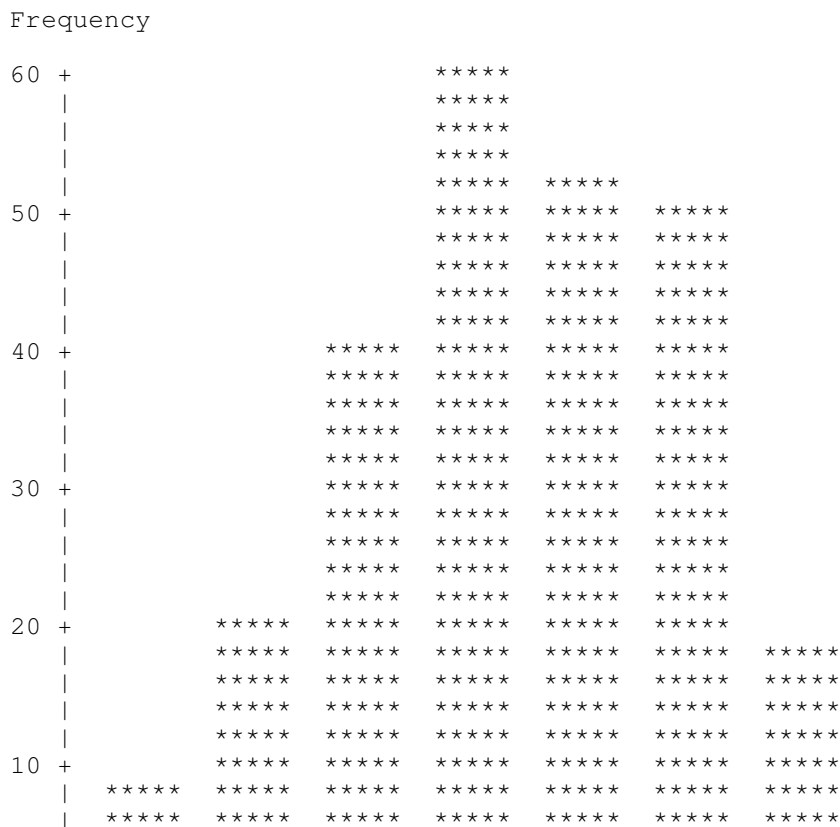
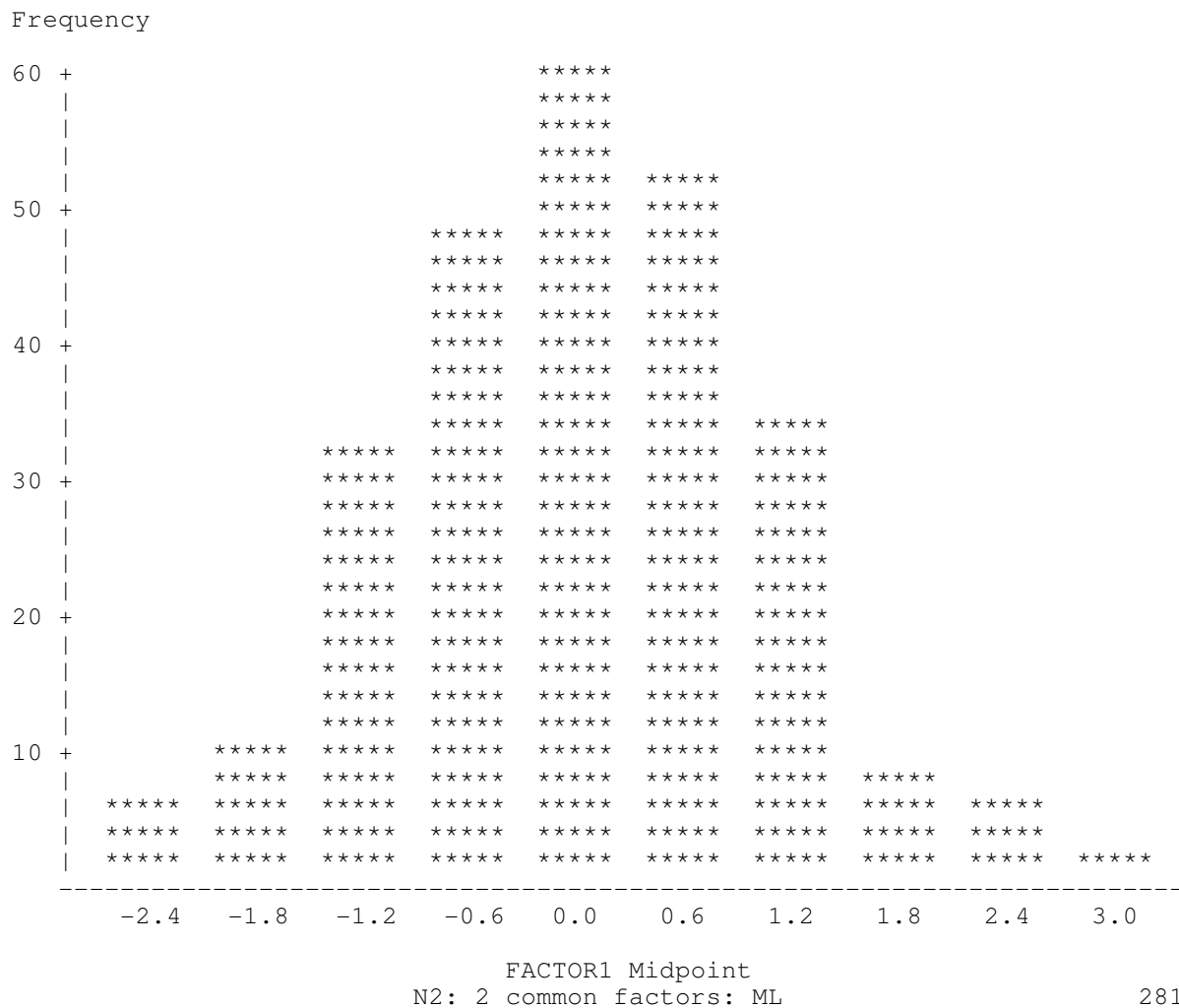
Plot of Factor Pattern for FACTOR1 and FACTOR2

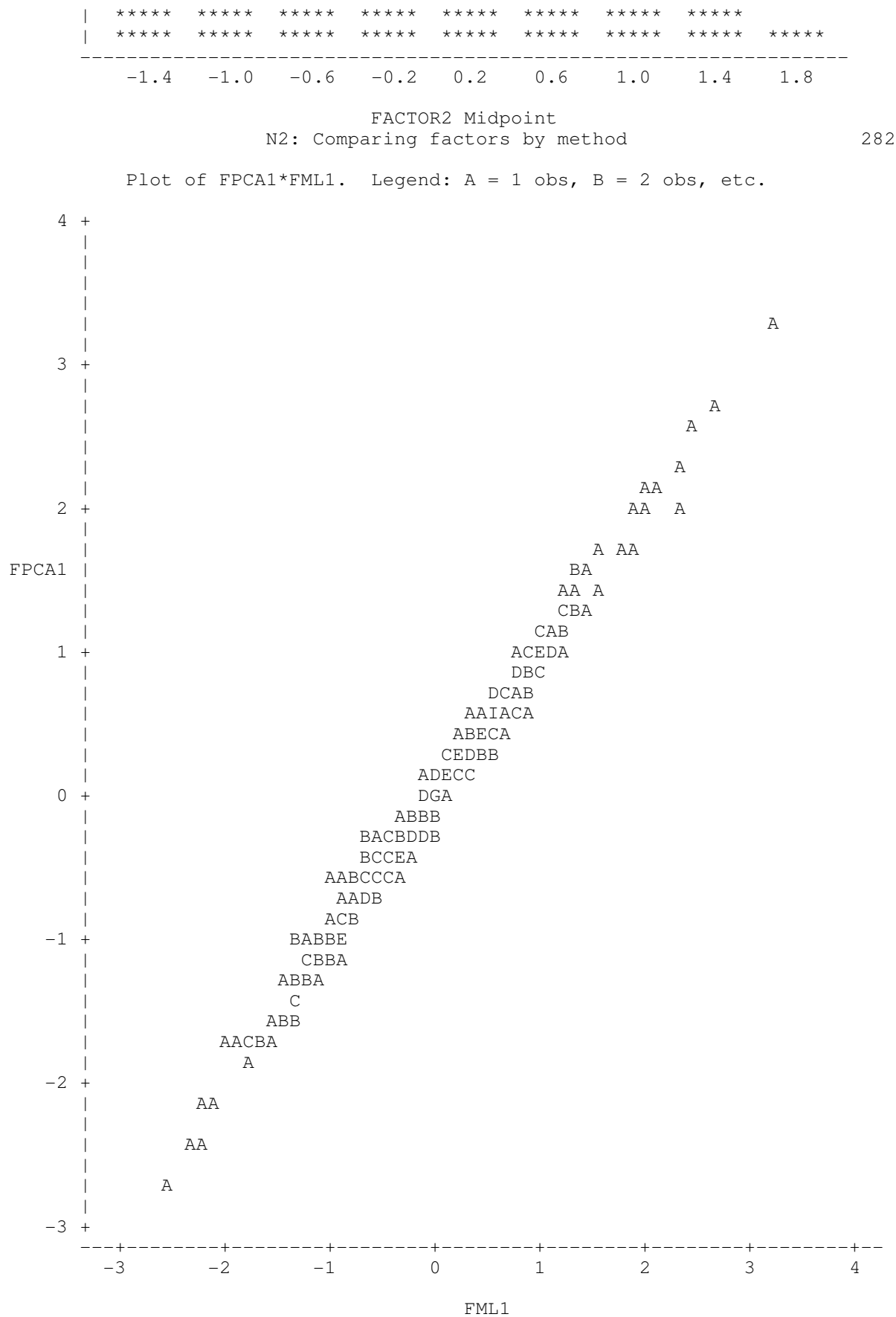


X1	=A	X2	=B	X3	=C	X4	=D	X5	=E
X6	=F	X7	=G	X8	=H	X9	=I	X10	=G

N2: 2 common factors: ML

280

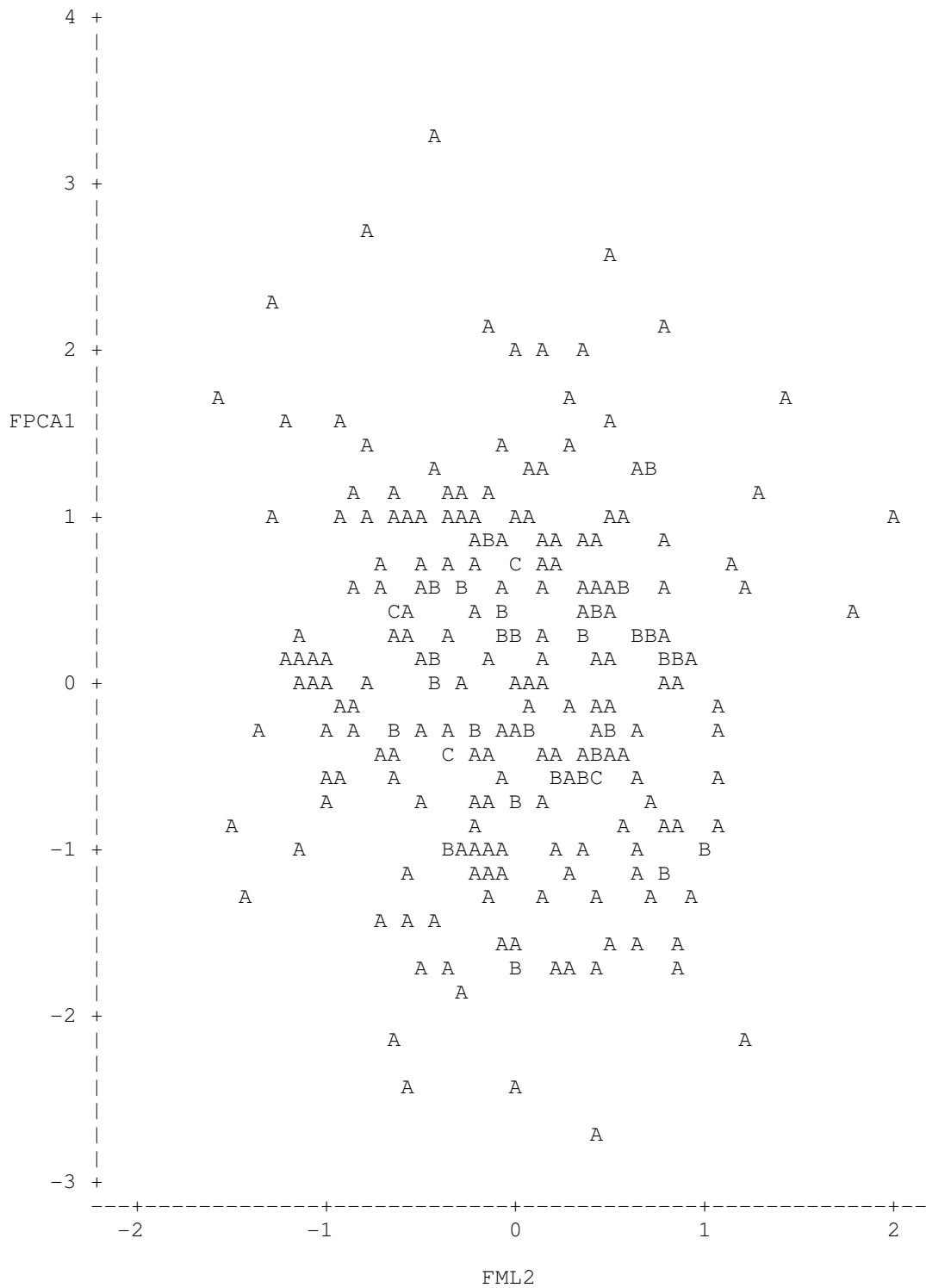




N2: Comparing factors by method

283

Plot of FPCA1*FML2. Legend: A = 1 obs, B = 2 obs, etc.

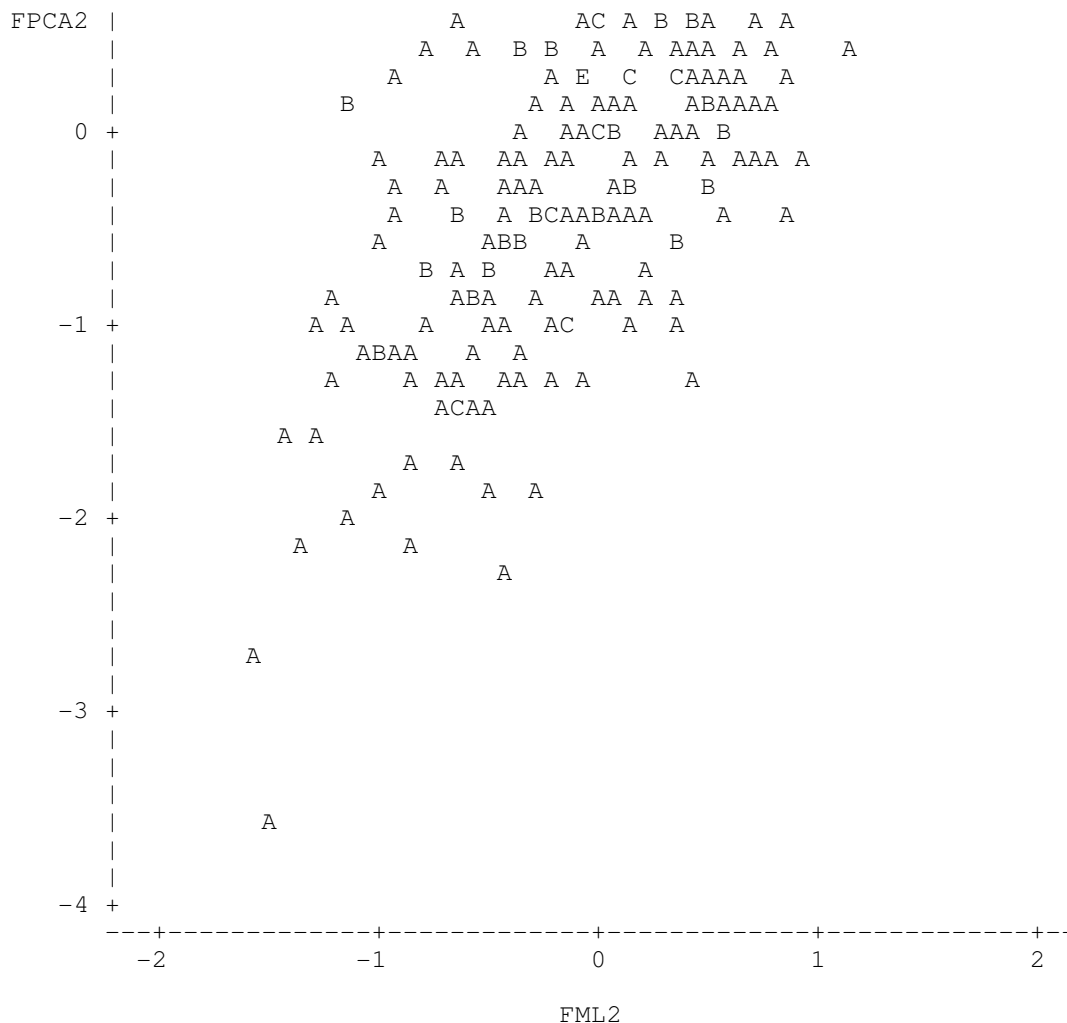


N2: Comparing factors by method

284

Plot of FPCA2*FML1. Legend: A = 1 obs, B = 2 obs, etc.





N3: 2 common factors: PCA

286

Initial Factor Method: Principal Components

Partial Correlations Controlling all other Variables

	X1	X2	X3	X4	X5
X1	1.00000	0.10454	0.47844	0.06015	0.84974
X2	0.10454	1.00000	-0.32100	-0.05067	0.02850
X3	0.47844	-0.32100	1.00000	-0.06992	-0.04105
X4	0.06015	-0.05067	-0.06992	1.00000	-0.07158
X5	0.84974	0.02850	-0.04105	-0.07158	1.00000
X6	-0.00632	0.02539	-0.07128	-0.06917	0.04510
X7	-0.07861	-0.87483	0.09605	-0.03611	0.02001
X8	-0.01100	0.09017	-0.02698	-0.08328	0.01767
X9	0.03049	-0.05163	0.00962	0.09621	-0.04472
X10	-0.00446	0.00484	0.05092	-0.05673	-0.03900
	X6	X7	X8	X9	X10
X1	-0.00632	-0.07861	-0.01100	0.03049	-0.00446
X2	0.02539	-0.87483	0.09017	-0.05163	0.00484
X3	-0.07128	0.09605	-0.02698	0.00962	0.05092
X4	-0.06917	-0.03611	-0.08328	0.09621	-0.05673
X5	0.04510	0.02001	0.01767	-0.04472	-0.03900
X6	1.00000	0.06439	0.05045	-0.03508	-0.02740
X7	0.06439	1.00000	0.08221	-0.04906	-0.04525
X8	0.05045	0.08221	1.00000	0.03733	0.07355
X9	-0.03508	-0.04906	0.03733	1.00000	-0.07561

X10 -0.02740 -0.04525 0.07355 -0.07561 1.00000

Kaiser's Measure of Sampling Adequacy: Over-all MSA = 0.64013829

	X1	X2	X3	X4	X5
	0.573446	0.602177	0.809422	0.606662	0.628844
	X6	X7	X8	X9	X10
	0.400163	0.623330	0.577202	0.493121	0.688368

Prior Communality Estimates: ONE

Eigenvalues of the Correlation Matrix: Total = 10 Average = 1

	1	2	3	4	5
Eigenvalue	2.7514	2.0907	1.2164	1.0268	0.9982
Difference	0.6607	0.8742	0.1896	0.0286	0.1298
Proportion	0.2751	0.2091	0.1216	0.1027	0.0998
Cumulative	0.2751	0.4842	0.6059	0.7085	0.8084
	6	7	8	9	10
Eigenvalue	0.8684	0.8299	0.1348	0.0462	0.0372
Difference	0.0385	0.6951	0.0886	0.0090	
Proportion	0.0868	0.0830	0.0135	0.0046	0.0037
Cumulative	0.8952	0.9782	0.9917	0.9963	1.0000

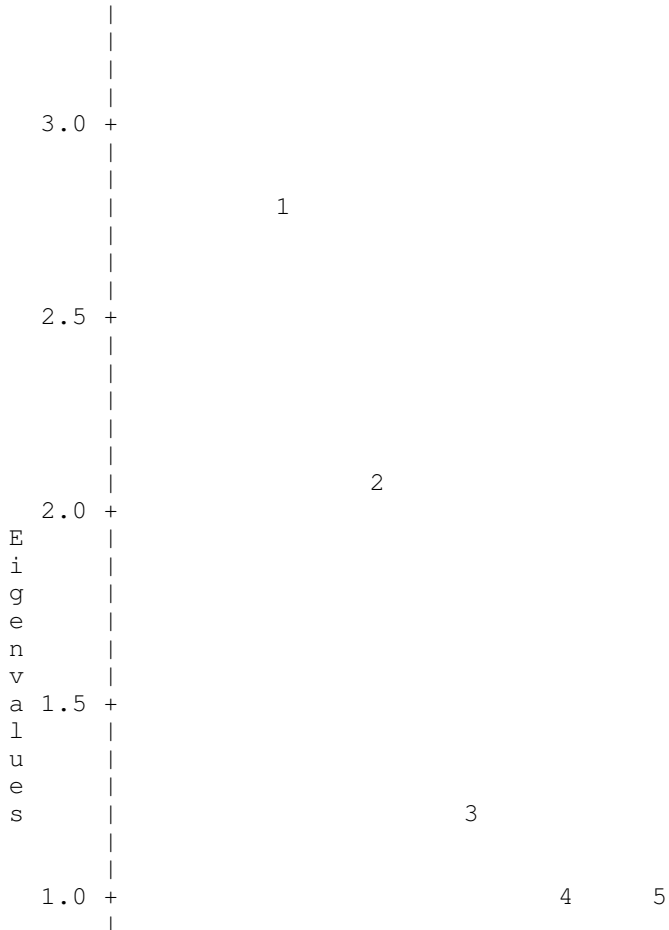
2 factors will be retained by the NFACTOR criterion.

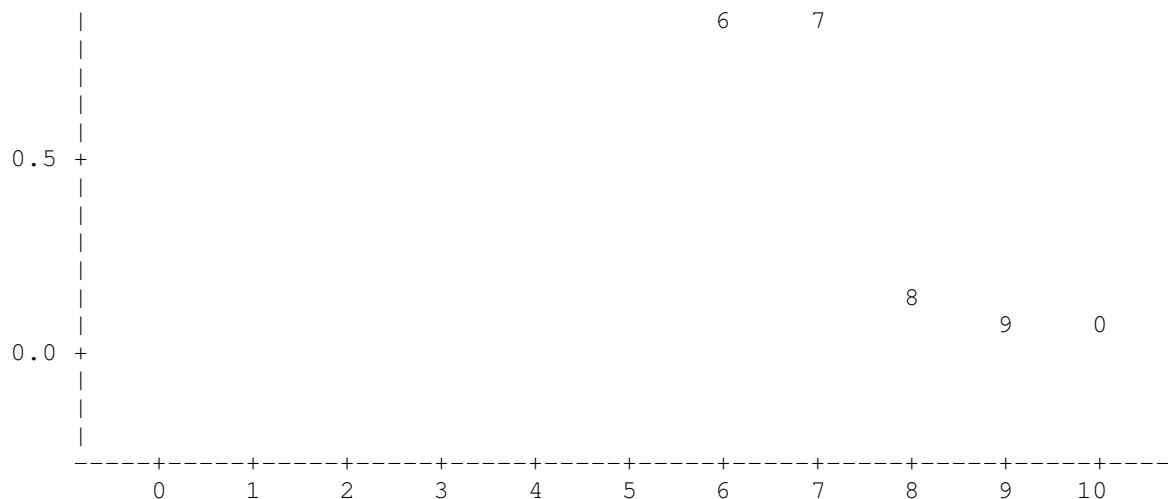
N3: 2 common factors: PCA

287

Initial Factor Method: Principal Components

Scree Plot of Eigenvalues





Number
N3: 2 common factors: PCA 288

Initial Factor Method: Principal Components

Eigenvectors

	1	2
X1	0.39603	0.50307
X2	-0.42413	0.47320
X3	0.57362	0.01754
X4	-0.08215	-0.10472
X5	0.37453	0.51792
X6	0.00806	0.00759
X7	0.41445	-0.47804
X8	-0.08145	0.07313
X9	0.01437	-0.07198
X10	-0.09243	0.06623

Factor Pattern

	FACTOR1	FACTOR2
X1	0.65691	0.72739
X2	-0.70352	0.68420
X3	0.95148	0.02536
X4	-0.13627	-0.15142
X5	0.62124	0.74887
X6	0.01338	0.01097
X7	0.68745	-0.69121
X8	-0.13511	0.10574
X9	0.02383	-0.10408
X10	-0.15332	0.09576

Variance explained by each factor

FACTOR1 FACTOR2
2.751385 2.090690

Final Communality Estimates: Total = 4.842076

X1	X2	X3	X4	X5
0.960636	0.963068	0.905955	0.041497	0.946746
X6	X7	X8	X9	X10
0.000299	0.950359	0.029436	0.011401	0.032679

N3: 2 common factors: PCA 289

Initial Factor Method: Principal Components

Residual Correlations With Uniqueness on the Diagonal

	X1	X2	X3	X4	X5
X1	0.03936	-0.00112	-0.01403	0.10000	-0.00651
X2	-0.00112	0.03693	0.01921	0.01969	-0.00986
X3	-0.01403	0.01921	0.09404	0.03268	-0.04133
X4	0.10000	0.01969	0.03268	0.95850	0.07919
X5	-0.00651	-0.00986	-0.04133	0.07919	0.05325
X6	-0.01527	-0.00625	-0.03374	-0.07532	0.00364
X7	0.00060	-0.00453	-0.02942	-0.03698	0.01365
X8	-0.01362	-0.06284	0.03492	-0.09054	-0.00750
X9	0.04503	0.03956	0.00112	0.09475	0.03048
X10	-0.00817	-0.07185	0.07345	-0.06794	-0.02089
	X6	X7	X8	X9	X10
X1	-0.01527	0.00060	-0.01362	0.04503	-0.00817
X2	-0.00625	-0.00453	-0.06284	0.03956	-0.07185
X3	-0.03374	-0.02942	0.03492	0.00112	0.07345
X4	-0.07532	-0.03698	-0.09054	0.09475	-0.06794
X5	0.00364	0.01365	-0.00750	0.03048	-0.02089
X6	0.99970	0.02562	0.06156	-0.04408	-0.02345
X7	0.02562	0.04964	0.08921	-0.05597	0.06647
X8	0.06156	0.08921	0.97056	0.02477	0.05076
X9	-0.04408	-0.05597	0.02477	0.98860	-0.06532
X10	-0.02345	0.06647	0.05076	-0.06532	0.96732

Root Mean Square Off-diagonal Residuals: Over-all = 0.04769531

	X1	X2	X3	X4	X5
	0.037644	0.035888	0.036455	0.071925	0.032898
	X6	X7	X8	X9	X10
	0.039490	0.045468	0.056319	0.051050	0.055265

Partial Correlations Controlling Factors

	X1	X2	X3	X4	X5
X1	1.00000	-0.02941	-0.23055	0.51482	-0.14226
X2	-0.02941	1.00000	0.32590	0.10463	-0.22225
X3	-0.23055	0.32590	1.00000	0.10885	-0.58395
X4	0.51482	0.10463	0.10885	1.00000	0.35053
X5	-0.14226	-0.22225	-0.58395	0.35053	1.00000
X6	-0.07700	-0.03251	-0.11003	-0.07694	0.01577
X7	0.01356	-0.10588	-0.43055	-0.16951	0.26543
X8	-0.06968	-0.33192	0.11560	-0.09387	-0.03300
X9	0.22824	0.20704	0.00369	0.09733	0.13284
X10	-0.04186	-0.38016	0.24351	-0.07056	-0.09205

N3: 2 common factors: PCA

290

Initial Factor Method: Principal Components

Partial Correlations Controlling Factors

	X6	X7	X8	X9	X10
X1	-0.07700	0.01356	-0.06968	0.22824	-0.04186
X2	-0.03251	-0.10588	-0.33192	0.20704	-0.38016
X3	-0.11003	-0.43055	0.11560	0.00369	0.24351
X4	-0.07694	-0.16951	-0.09387	0.09733	-0.07056
X5	0.01577	0.26543	-0.03300	0.13284	-0.09205
X6	1.00000	0.11503	0.06249	-0.04434	-0.02384

X7	0.11503	1.00000	0.40643	-0.25265	0.30333
X8	0.06249	0.40643	1.00000	0.02529	0.05239
X9	-0.04434	-0.25265	0.02529	1.00000	-0.06679
X10	-0.02384	0.30333	0.05239	-0.06679	1.00000

Root Mean Square Off-diagonal Partial: Over-all = 0.21759975

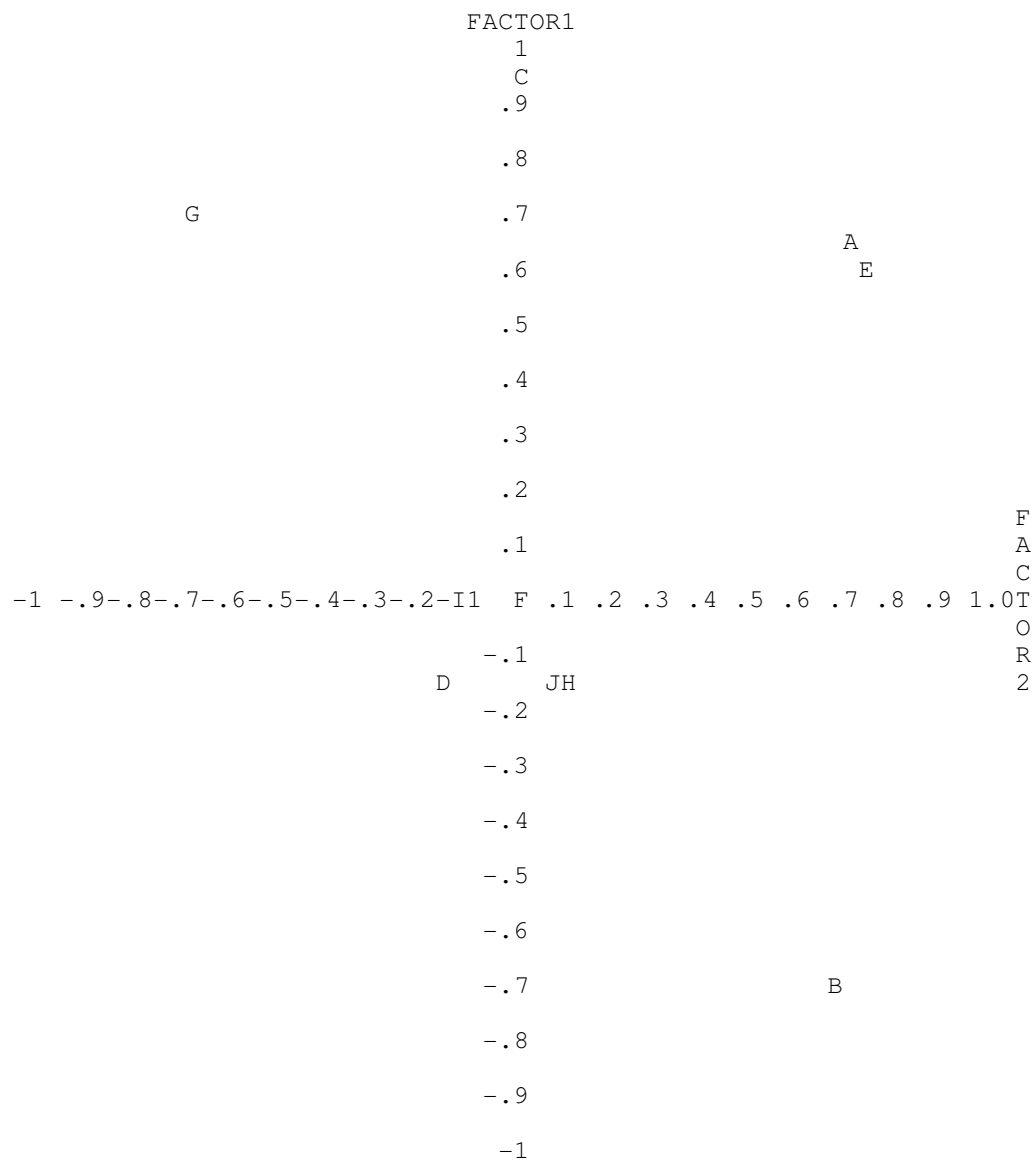
	X1	X2	X3	X4	X5
0.211900		0.230275	0.294839	0.228187	0.264871
	X6	X7	X8	X9	X10
0.070657	0.264620		0.185820	0.146437	0.188209

N3: 2 common factors: PCA

291

Initial Factor Method: Principal Components

Plot of Factor Pattern for FACTOR1 and FACTOR2



X1	=A	X2	=B	X3	=C	X4	=D	X5	=E
X6	=F	X7	=G	X8	=H	X9	=I	X10	=J

N3: 2 common factors: PCA

292

Rotation Method: Varimax

Orthogonal Transformation Matrix

	1	2
1	0.73019	0.68325
2	-0.68325	0.73019

Rotated Factor Pattern

	FACTOR1	FACTOR2
X1	-0.01732	0.97997
X2	-0.98118	0.01892
X3	0.67743	0.66861
X4	0.00395	-0.20367
X5	-0.05804	0.97128
X6	0.00227	0.01715
X7	0.97423	-0.03501
X8	-0.17090	-0.01510
X9	0.08851	-0.05972
X10	-0.17739	-0.03483

Variance explained by each factor

FACTOR1	FACTOR2
2.442956	2.399119

Final Communality Estimates: Total = 4.842076

X1	X2	X3	X4	X5
0.960636	0.963068	0.905955	0.041497	0.946746
X6	X7	X8	X9	X10
0.000299	0.950359	0.029436	0.011401	0.032679

Scoring Coefficients Estimated by Regression

Squared Multiple Correlations of the Variables with each Factor

FACTOR1	FACTOR2
1.000000	1.000000
N3: 2 common factors: PCA	

293

Rotation Method: Varimax

Standardized Scoring Coefficients

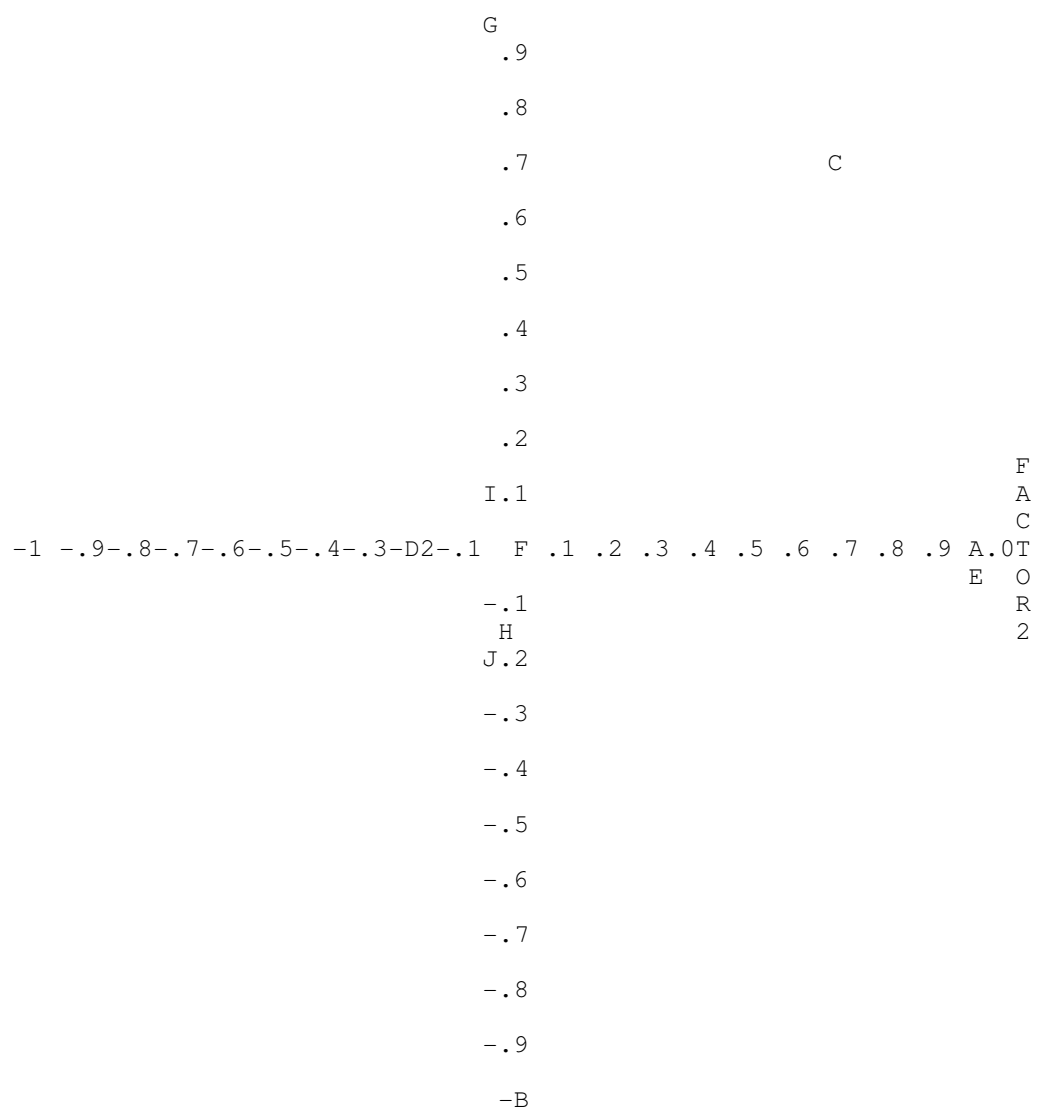
	FACTOR1	FACTOR2
X1	-0.06338	0.41718
X2	-0.41031	0.06426
X3	0.24423	0.24514
X4	0.01332	-0.08672
X5	-0.07986	0.41582
X6	-0.00004	0.00715
X7	0.40833	-0.07070
X8	-0.07041	0.00338
X9	0.04034	-0.03043
X10	-0.07199	-0.00463
N3: 2 common factors: PCA		

294

Rotation Method: Varimax

Plot of Factor Pattern for FACTOR1 and FACTOR2

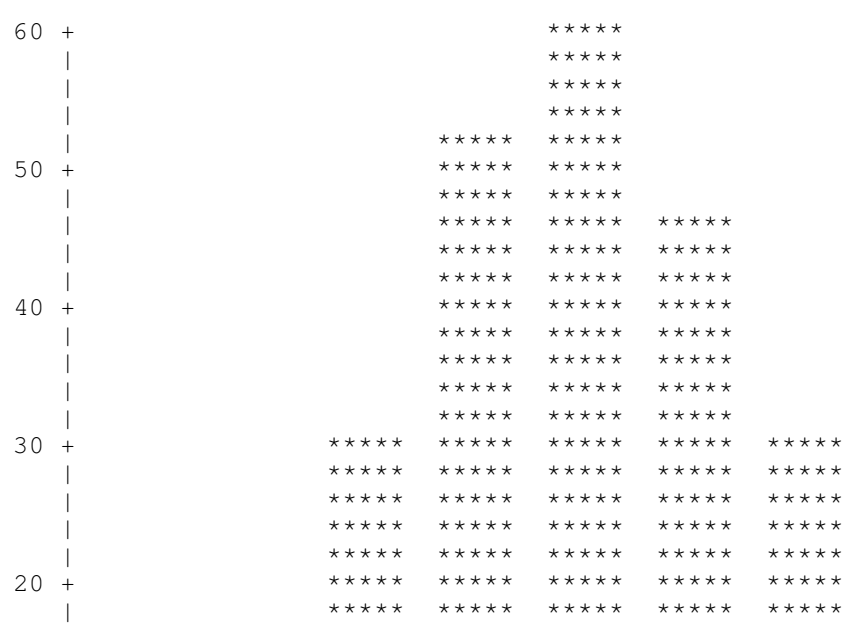
FACTOR1
1

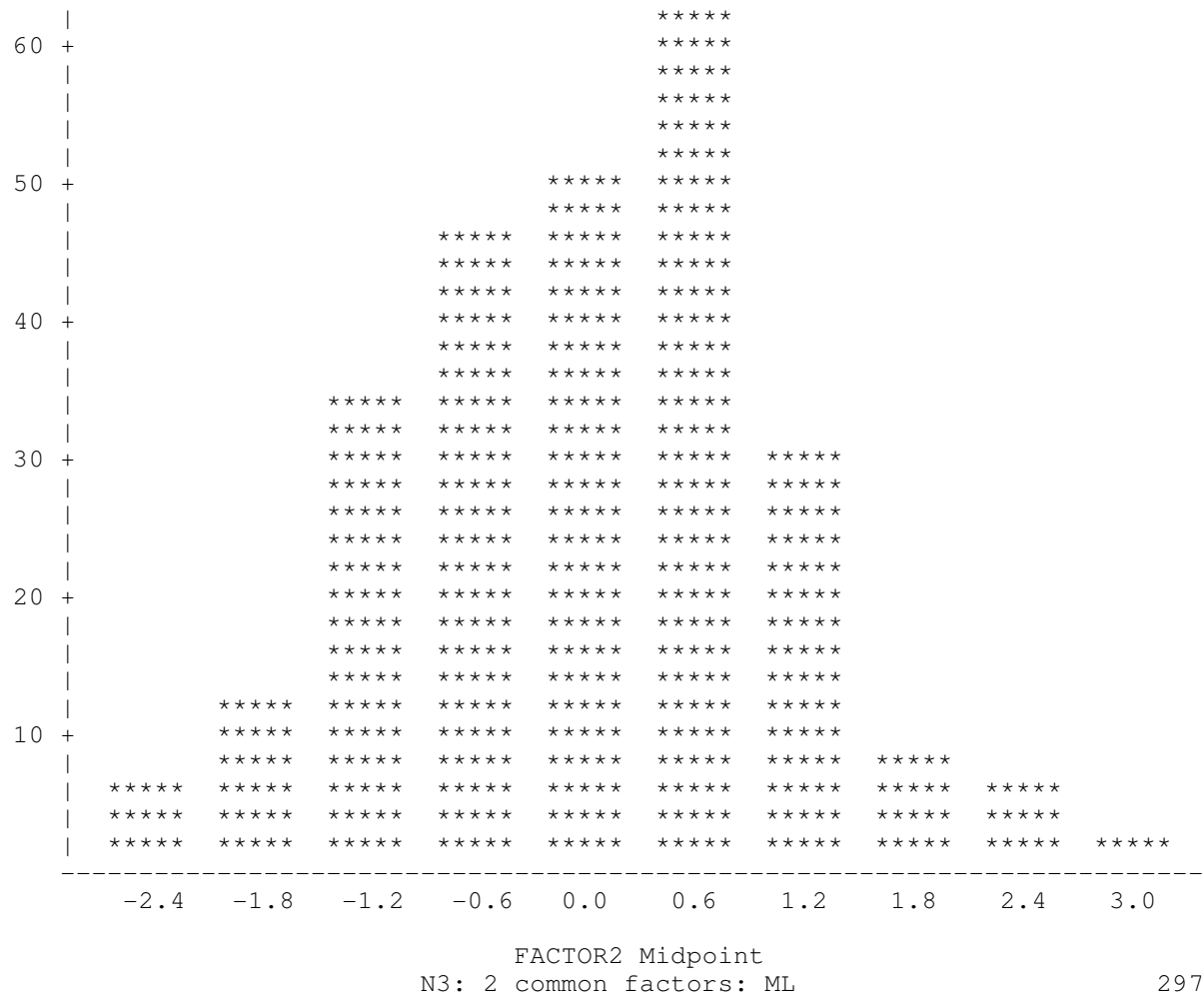
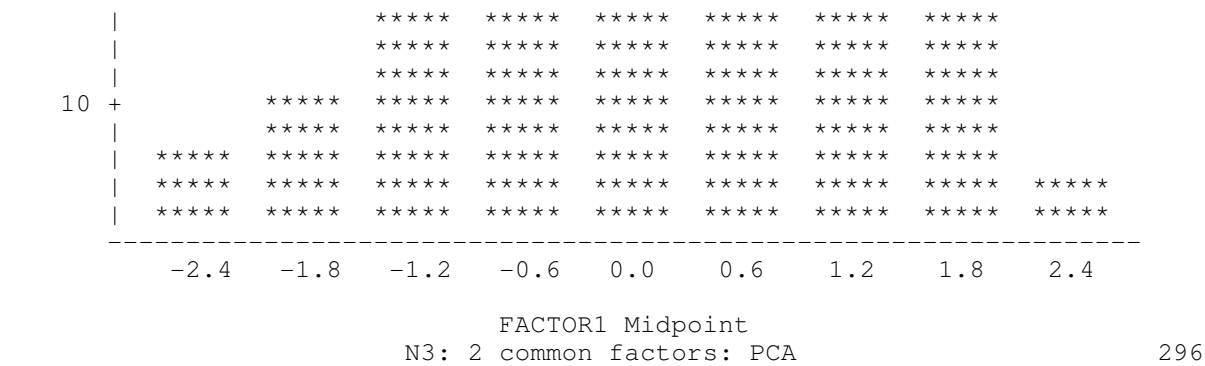


X1	=A	X2	=B	X3	=C	X4	=D	X5	=E
X6	=F	X7	=G	X8	=H	X9	=I	X10	=J

N3: 2 common factors: PCA 295

Frequency





Initial Factor Method: Maximum Likelihood

Partial Correlations Controlling all other Variables

	X1	X2	X3	X4	X5
X1	1.00000	0.10454	0.47844	0.06015	0.84974
X2	0.10454	1.00000	-0.32100	-0.05067	0.02850
X3	0.47844	-0.32100	1.00000	-0.06992	-0.04105
X4	0.06015	-0.05067	-0.06992	1.00000	-0.07158
X5	0.84974	0.02850	-0.04105	-0.07158	1.00000
X6	-0.00632	0.02539	-0.07128	-0.06917	0.04510
X7	-0.07861	-0.87483	0.09605	-0.03611	0.02001
X8	-0.01100	0.09017	-0.02698	-0.08328	0.01767
X9	0.03049	-0.05163	0.00962	0.09621	-0.04472
X10	-0.00446	0.00484	0.05092	-0.05673	-0.03900

	X6	X7	X8	X9	X10
X1	-0.00632	-0.07861	-0.01100	0.03049	-0.00446
X2	0.02539	-0.87483	0.09017	-0.05163	0.00484
X3	-0.07128	0.09605	-0.02698	0.00962	0.05092
X4	-0.06917	-0.03611	-0.08328	0.09621	-0.05673
X5	0.04510	0.02001	0.01767	-0.04472	-0.03900
X6	1.00000	0.06439	0.05045	-0.03508	-0.02740
X7	0.06439	1.00000	0.08221	-0.04906	-0.04525
X8	0.05045	0.08221	1.00000	0.03733	0.07355
X9	-0.03508	-0.04906	0.03733	1.00000	-0.07561
X10	-0.02740	-0.04525	0.07355	-0.07561	1.00000

Kaiser's Measure of Sampling Adequacy: Over-all MSA = 0.64013829

X1	X2	X3	X4	X5
0.573446	0.602177	0.809422	0.606662	0.628844
X6	X7	X8	X9	X10
0.400163	0.623330	0.577202	0.493121	0.688368

Prior Communalities Estimates: SMC

X1	X2	X3	X4	X5
0.920717	0.933288	0.829046	0.049254	0.898109
X6	X7	X8	X9	X10
0.022770	0.926041	0.036022	0.025594	0.032692

Preliminary Eigenvalues: Total = 51.9602188 Average = 5.19602188

	1	2	3	4	5
Eigenvalue	29.6859	23.0972	0.2983	0.1511	0.0403
Difference	6.5887	22.7989	0.1472	0.1108	0.1038
Proportion	0.5713	0.4445	0.0057	0.0029	0.0008
Cumulative	0.5713	1.0158	1.0216	1.0245	1.0253
N3: 2 common factors: ML					298

Initial Factor Method: Maximum Likelihood

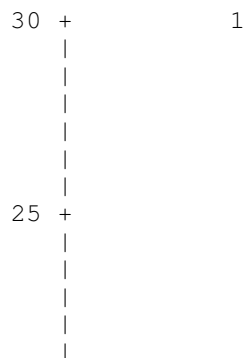
	6	7	8	9	10
Eigenvalue	-0.0635	-0.0992	-0.1636	-0.4728	-0.5135
Difference	0.0357	0.0644	0.3092	0.0407	
Proportion	-0.0012	-0.0019	-0.0031	-0.0091	-0.0099
Cumulative	1.0240	1.0221	1.0190	1.0099	1.0000

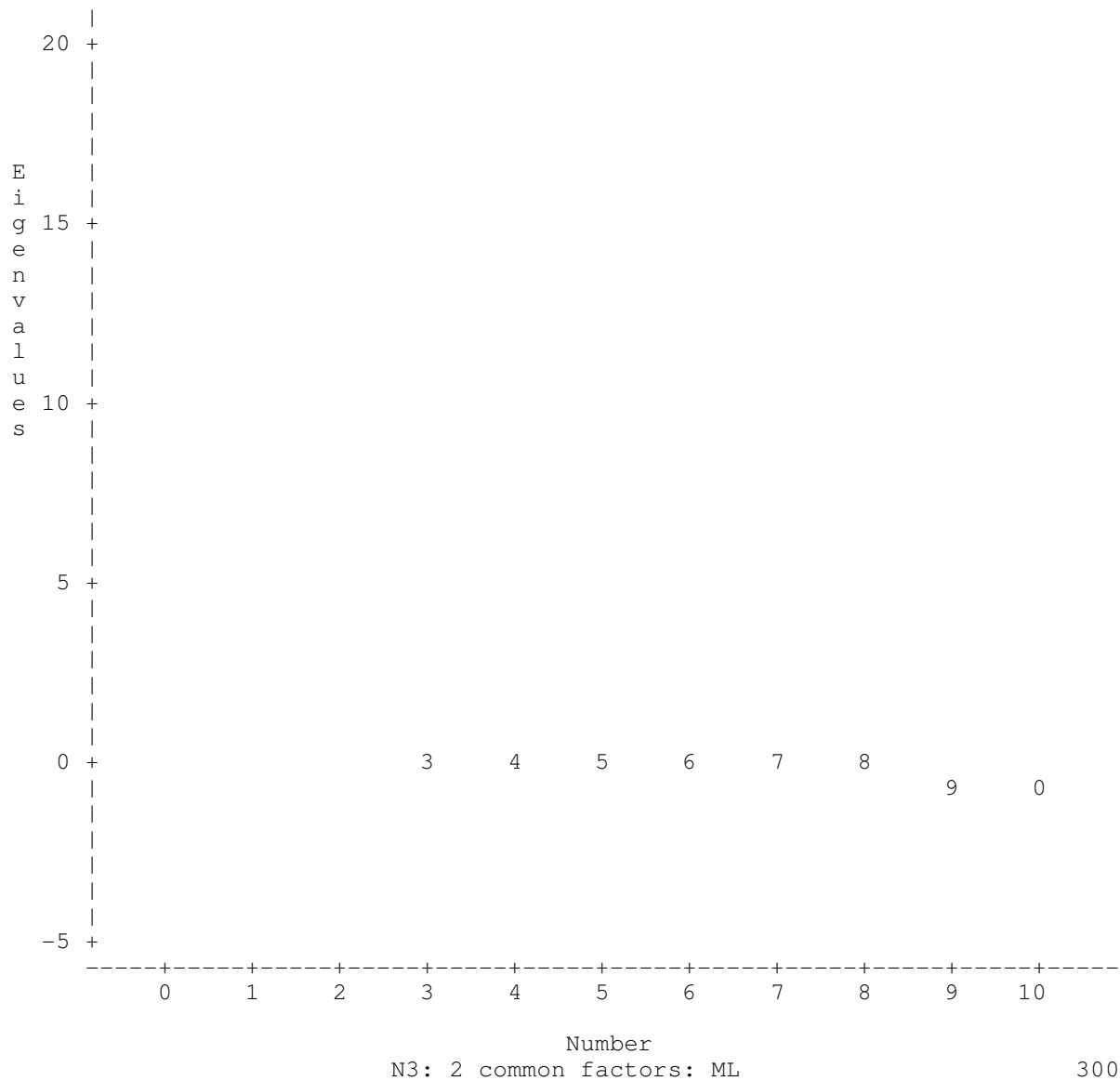
2 factors will be retained by the NFACTOR criterion.

N3: 2 common factors: ML 299

Initial Factor Method: Maximum Likelihood

Scree Plot of Eigenvalues





Initial Factor Method: Maximum Likelihood

Iter	Criterion	Ridge	Change	Communalities
1	0.09764	0.000	0.07928	1.00000 0.98217 0.82814 0.01589 0.88973 0.00175 0.93609 0.01164 0.00385 0.01374
2	0.09345	0.000	0.00685	1.00000 0.98493 0.83186 0.01033 0.89658 0.00012 0.93811 0.01094 0.00227 0.01236
3	0.09345	0.000	0.00010	1.00000 0.98494 0.83183 0.01031 0.89658 0.00011 0.93811 0.01104 0.00230 0.01235

Convergence criterion satisfied.

Significance tests based on 250 observations:

Test of H0: No common factors.
vs HA: At least one common factor.

Chi-square = 1647.259 df = 45 Prob>chi**2 = 0.0001

Test of H0: 2 Factors are sufficient.
vs HA: More factors are needed.

Chi-square = 22.755 df = 26 Prob>chi**2 = 0.6468

Chi-square without Bartlett's correction = 23.268770071

Akaike's Information Criterion = -28.73122993

Schwarz's Bayesian Criterion = -120.2892138

Tucker and Lewis's Reliability Coefficient = 1.0035054824

Squared Canonical Correlations

FACTOR1	FACTOR2
1.000000	0.988105

Eigenvectors

	1	2
X1	1.00000	0.00000
X2	0.00000	0.99839
X3	0.00000	-0.02428
X4	0.00000	0.00264
X5	0.00000	-0.00025
X6	0.00000	-0.00373
X7	0.00000	-0.05105
X8	0.00000	0.00129
X9	0.00000	-0.00063
X10	0.00000	0.00124

N3: 2 common factors: ML

301

Initial Factor Method: Maximum Likelihood

Eigenvalues of the Weighted Reduced Correlation Matrix:

Total = 83.0682439 Average = 9.22980488

	1	2	3	4	5
Eigenvalue	.	83.0682	0.3189	0.1476	0.0325
Difference	.	82.7494	0.1713	0.1151	0.0477
Proportion	.	1.0000	0.0038	0.0018	0.0004
Cumulative	.	1.0000	1.0038	1.0056	1.0060

	6	7	8	9	10
Eigenvalue	-0.0152	-0.0463	-0.0861	-0.1536	-0.1978
Difference	0.0311	0.0398	0.0675	0.0442	
Proportion	-0.0002	-0.0006	-0.0010	-0.0018	-0.0024
Cumulative	1.0058	1.0053	1.0042	1.0024	1.0000

Factor Pattern

	FACTOR1	FACTOR2
X1	1.00000	0.00000
X2	0.03442	0.99185
X3	0.62946	-0.66002
X4	-0.09966	0.01950
X5	0.94631	0.03284
X6	0.00149	-0.01049
X7	-0.05058	-0.96724
X8	-0.02546	0.10195
X9	-0.01503	-0.04550
X10	-0.03923	0.10399

Variance explained by each factor

	FACTOR1	FACTOR2
Weighted	11.147643	83.068244
Unweighted	2.307808	2.379772

Final Communality Estimates and Variable Weights

Total Communality: Weighted = 94.215887 Unweighted = 4.687580

	X1	X2	X3	X4	X5
Communality	1.000000	0.984941	0.831834	0.010312	0.896582
Weight	.	66.405803	5.946515	1.010419	9.669498

	X6	X7	X8	X9	X10
Communality	0.000112	0.938109	0.011041	0.002296	0.012352
Weight	1.000112	16.157568	1.011164	1.002301	1.012507

N3: 2 common factors: ML

302

Initial Factor Method: Maximum Likelihood

Residual Correlations With Uniqueness on the Diagonal

	X1	X2	X3	X4	X5
X1	0.00000	0.00000	0.00000	0.00000	0.00000
X2	0.00000	0.01506	0.00015	-0.00396	0.00034
X3	0.00000	0.00015	0.16817	-0.02522	-0.00523
X4	0.00000	-0.00396	-0.02522	0.98969	-0.02519
X5	0.00000	0.00034	-0.00523	-0.02519	0.10342
X6	0.00000	0.00221	-0.02860	-0.07845	0.01910
X7	0.00000	-0.00000	0.00060	-0.01218	0.00272
X8	0.00000	0.00432	-0.00764	-0.09267	0.00849
X9	0.00000	-0.00277	0.00059	0.10665	-0.01694
X10	0.00000	-0.00025	0.02332	-0.06749	-0.01072

	X6	X7	X8	X9	X10
X1	0.00000	0.00000	0.00000	0.00000	0.00000
X2	0.00221	-0.00000	0.00432	-0.00277	-0.00025
X3	-0.02860	0.00060	-0.00764	0.00059	0.02332
X4	-0.07845	-0.01218	-0.09267	0.10665	-0.06749
X5	0.01910	0.00272	0.00849	-0.01694	-0.01072
X6	0.99989	0.01716	0.06202	-0.04536	-0.02330
X7	0.01716	0.06189	0.02056	-0.01241	-0.00653
X8	0.06202	0.02056	0.98896	0.01480	0.07000
X9	-0.04536	-0.01241	0.01480	0.99770	-0.07480
X10	-0.02330	-0.00653	0.07000	-0.07480	0.98765

Root Mean Square Off-diagonal Residuals: Over-all = 0.03415791

	X1	X2	X3	X4	X5
	0.000000	0.002287	0.015217	0.059725	0.012945

	X6	X7	X8	X9	X10
	0.039557	0.010904	0.044876	0.046779	0.042549

Partial Correlations Controlling Factors

	X1	X2	X3	X4	X5
X1	0.00000	0.00000	0.00000	0.00000	0.00000
X2	0.00000	1.00000	0.00289	-0.03241	0.00854
X3	0.00000	0.00289	1.00000	-0.06182	-0.03965
X4	0.00000	-0.03241	-0.06182	1.00000	-0.07873
X5	0.00000	0.00854	-0.03965	-0.07873	1.00000
X6	0.00000	0.01799	-0.06974	-0.07886	0.05939
X7	0.00000	-0.00004	0.00588	-0.04920	0.03402
X8	0.00000	0.03539	-0.01872	-0.09367	0.02656
X9	0.00000	-0.02261	0.00144	0.10733	-0.05275
X10	0.00000	-0.00208	0.05721	-0.06826	-0.03354

N3: 2 common factors: ML

303

Initial Factor Method: Maximum Likelihood

Partial Correlations Controlling Factors

	X6	X7	X8	X9	X10
X1	0.00000	0.00000	0.00000	0.00000	0.00000
X2	0.01799	-0.00004	0.03539	-0.02261	-0.00208
X3	-0.06974	0.00588	-0.01872	0.00144	0.05721
X4	-0.07886	-0.04920	-0.09367	0.10733	-0.06826
X5	0.05939	0.03402	0.02656	-0.05275	-0.03354
X6	1.00000	0.06898	0.06237	-0.04542	-0.02344
X7	0.06898	1.00000	0.08311	-0.04996	-0.02642
X8	0.06237	0.08311	1.00000	0.01490	0.07083
X9	-0.04542	-0.04996	0.01490	1.00000	-0.07535
X10	-0.02344	-0.02642	0.07083	-0.07535	1.00000

Root Mean Square Off-diagonal Partial: Over-all = 0.04678705

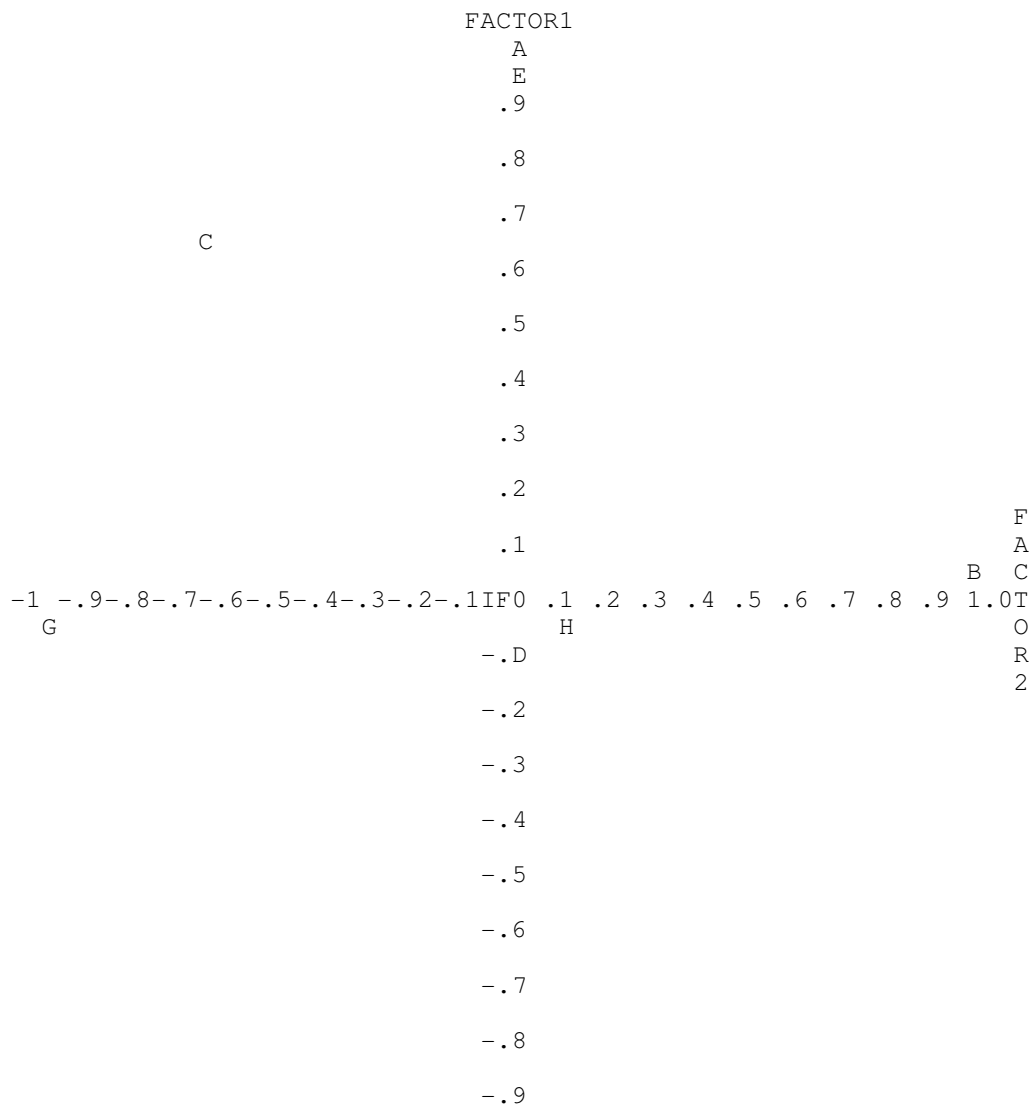
	X1	X2	X3	X4	X5
	0.000000	0.018924	0.039337	0.070444	0.043641
	X6	X7	X8	X9	X10
	0.053949	0.045304	0.054892	0.052991	0.048310

N3: 2 common factors: ML

304

Initial Factor Method: Maximum Likelihood

Plot of Factor Pattern for FACTOR1 and FACTOR2



-1

X1	=A	X2	=B	X3	=C	X4	=D	X5	=E
X6	=F	X7	=G	X8	=H	X9	=I	X10	=H

N3: 2 common factors: ML

305

Rotation Method: Varimax

Orthogonal Transformation Matrix

	1	2
1	-0.01848	0.99983
2	-0.99983	-0.01848

Rotated Factor Pattern

	FACTOR1	FACTOR2
X1	-0.01848	0.99983
X2	-0.99231	0.01608
X3	0.64827	0.64154
X4	-0.01765	-0.10000
X5	-0.05032	0.94554
X6	0.01046	0.00169
X7	0.96801	-0.03270
X8	-0.10146	-0.02734
X9	0.04577	-0.01418
X10	-0.10324	-0.04115

Variance explained by each factor

	FACTOR1	FACTOR2
Weighted	83.076176	11.139711
Unweighted	2.368320	2.319261

Final Communalities Estimates and Variable Weights

Total Communality: Weighted = 94.215887 Unweighted = 4.687580

	X1	X2	X3	X4	X5
Communality	1.000000	0.984941	0.831834	0.010312	0.896582
Weight	.	66.405803	5.946515	1.010419	9.669498
	X6	X7	X8	X9	X10
Communality	0.000112	0.938109	0.011041	0.002296	0.012352
Weight	1.000112	16.157568	1.011164	1.002301	1.012507

Scoring Coefficients Estimated by Regression

Squared Multiple Correlations of the Variables with each Factor

	FACTOR1	FACTOR2
	0.988109	0.999996

N3: 2 common factors: ML

306

Rotation Method: Varimax

Standardized Scoring Coefficients

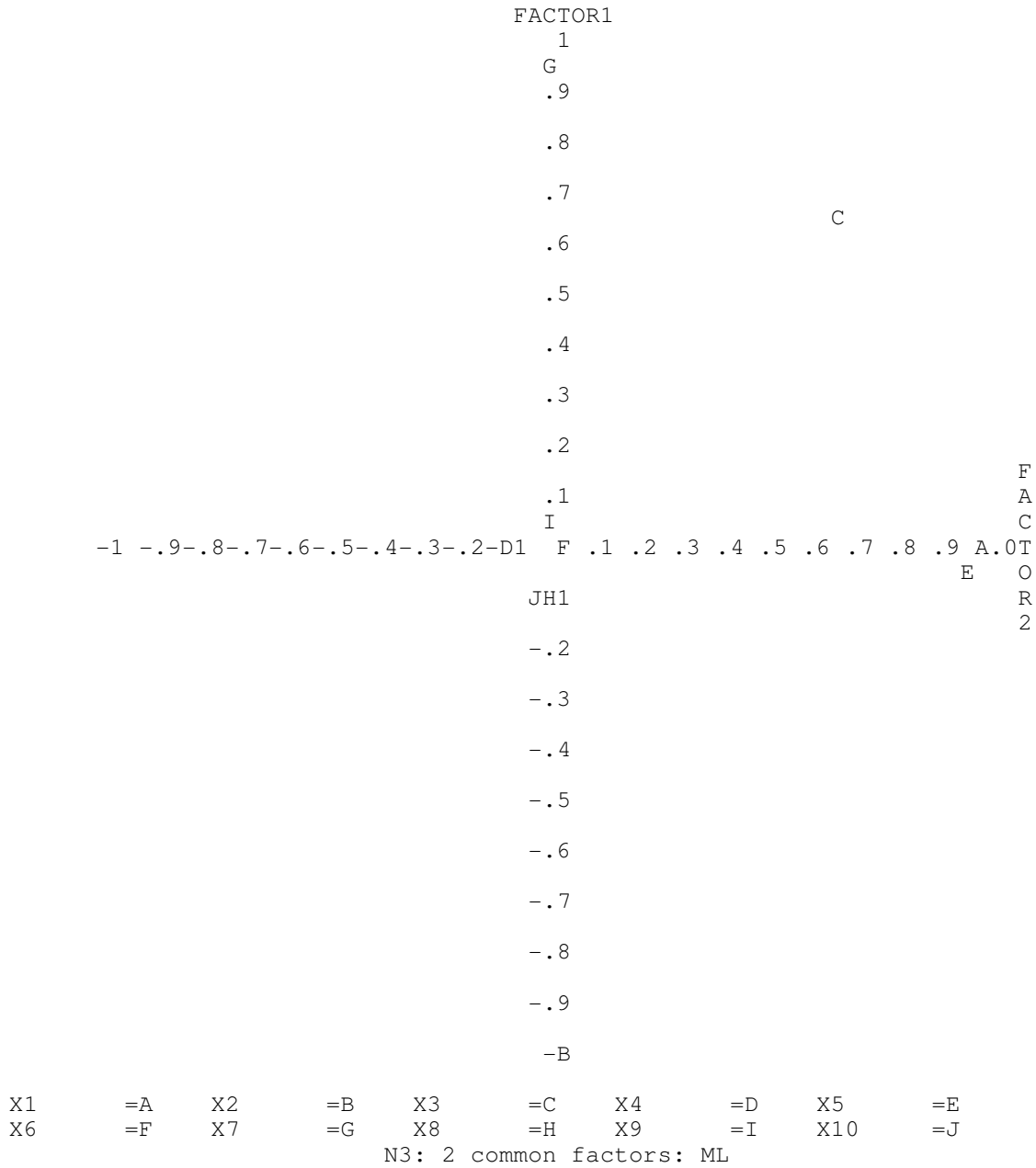
	FACTOR1	FACTOR2
X1	-0.00802	1.00002
X2	-0.78333	-0.01448
X3	0.04668	0.00086
X4	-0.00023	-0.00000
X5	-0.00378	-0.00007
X6	0.00012	0.00000
X7	0.18587	0.00344
X8	-0.00123	-0.00002

X9 0.00054 0.00001
X10 -0.00125 -0.00002
N3: 2 common factors: ML

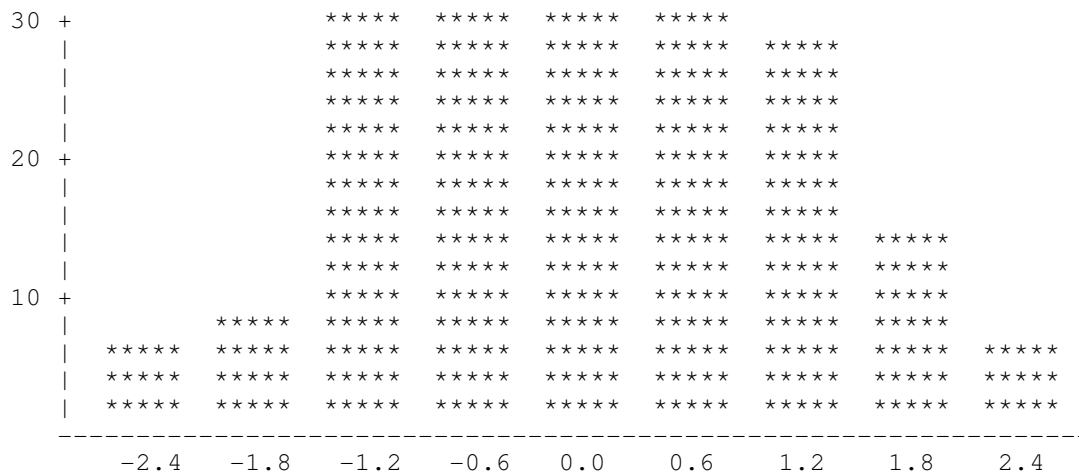
307

Rotation Method: Varimax

Plot of Factor Pattern for FACTOR1 and FACTOR2



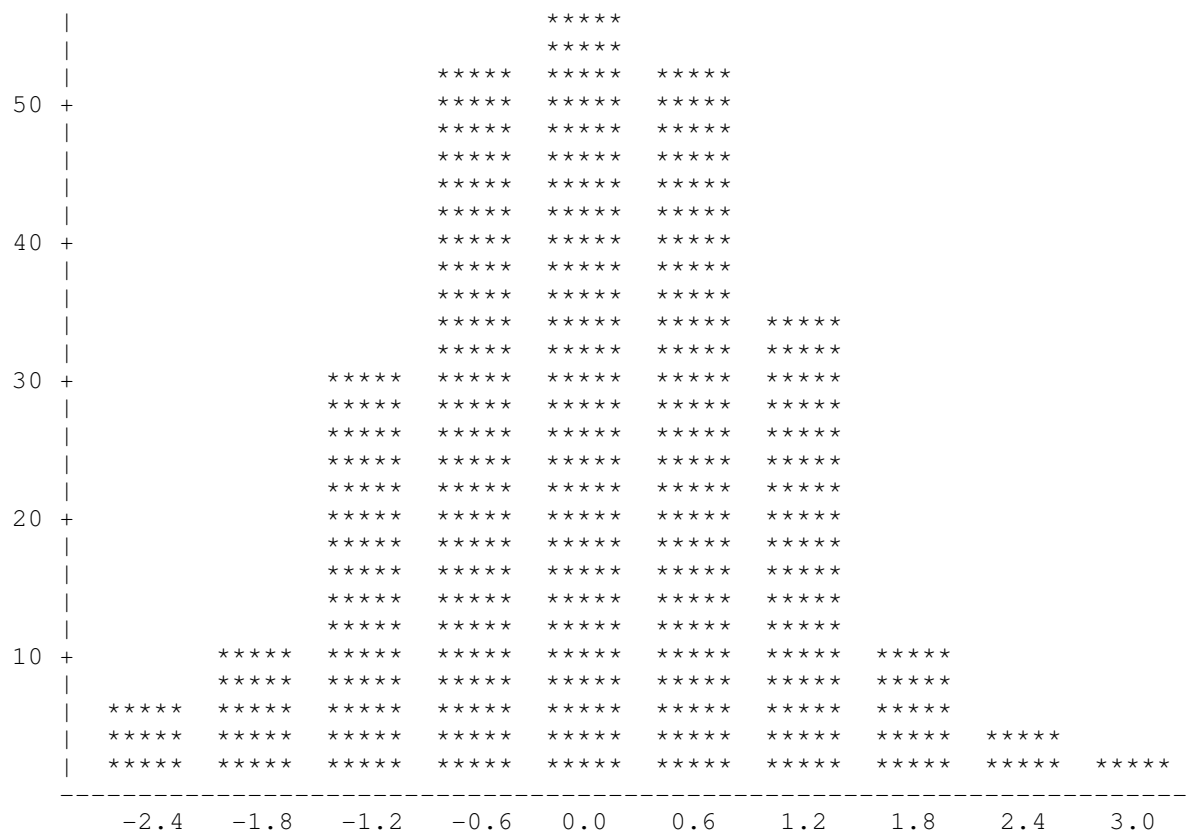
308



FACTOR1 Midpoint
N3: 2 common factors: ML

309

Frequency

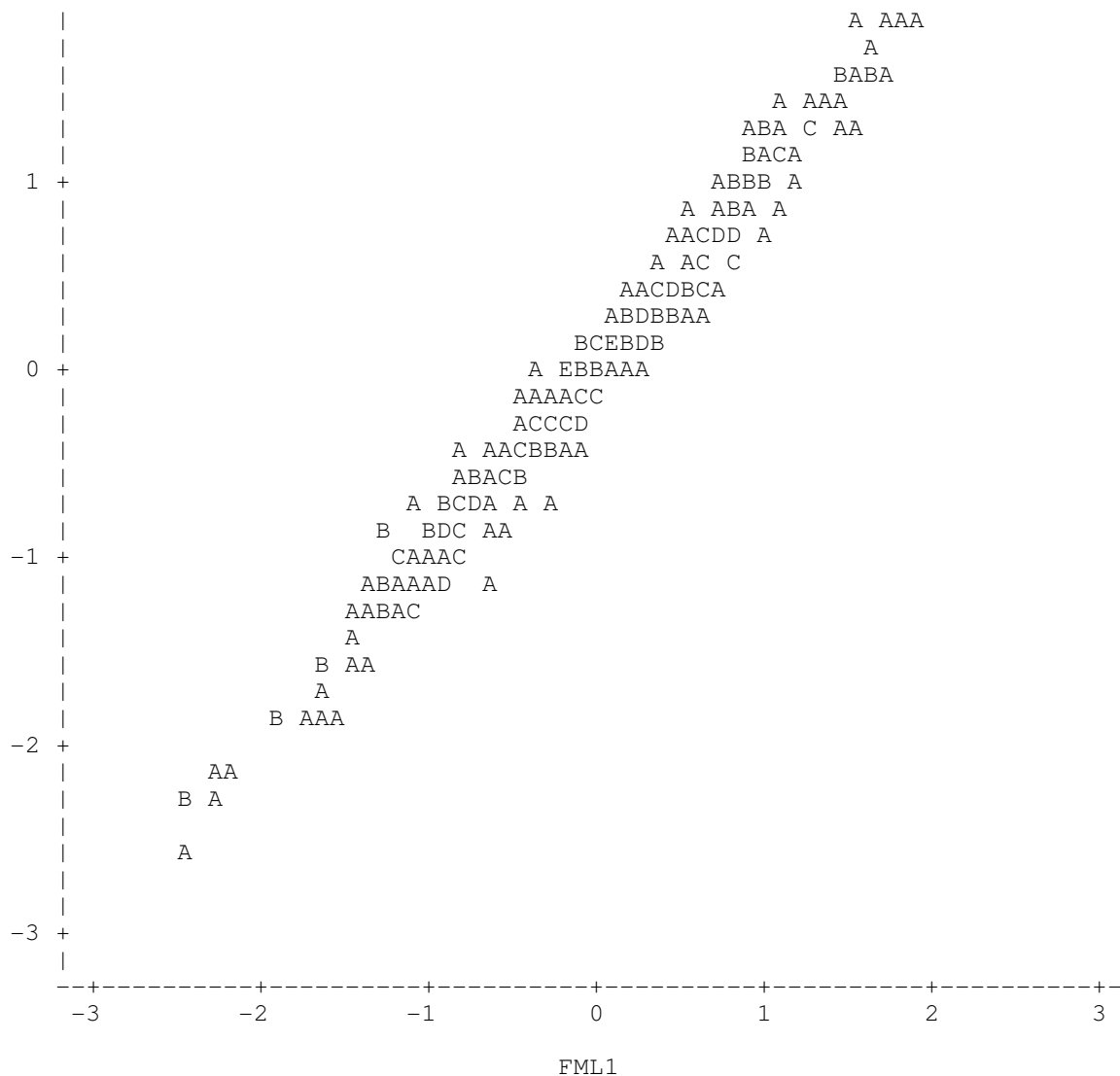


FACTOR2 Midpoint
N3: Comparing factors by method

310

Plot of FPCA1*FML1. Legend: A = 1 obs, B = 2 obs, etc.



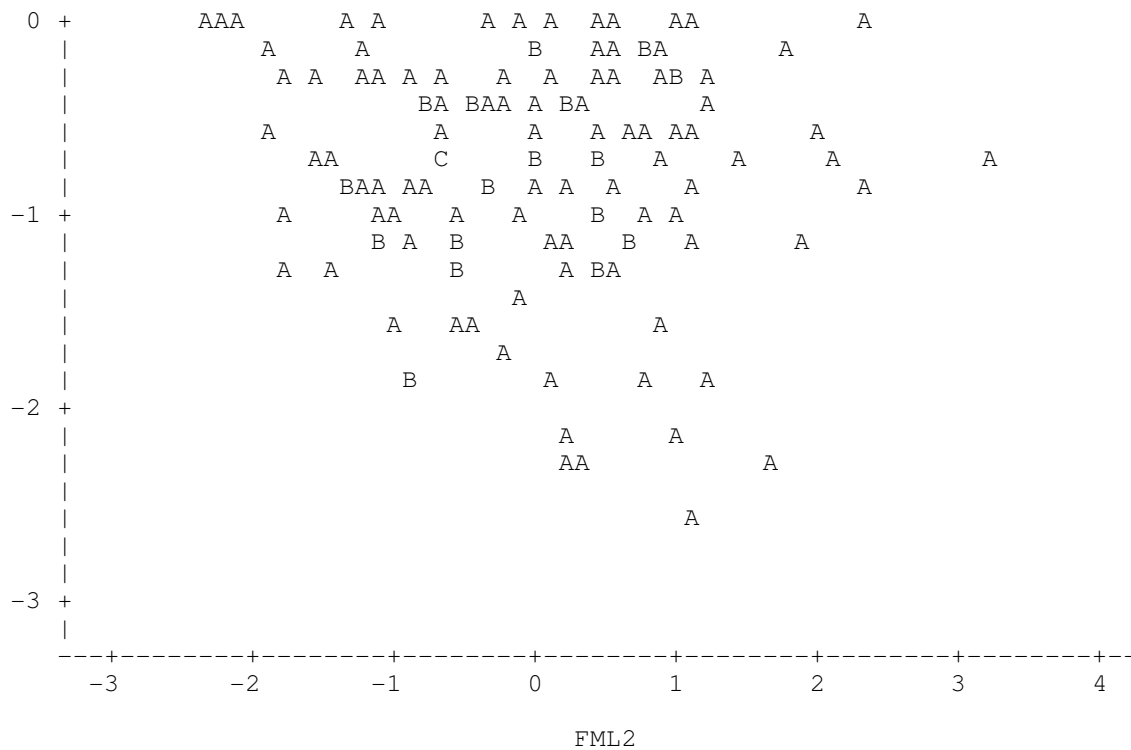


N3: Comparing factors by method

311

Plot of FPCA1*FML2. Legend: A = 1 obs, B = 2 obs, etc.

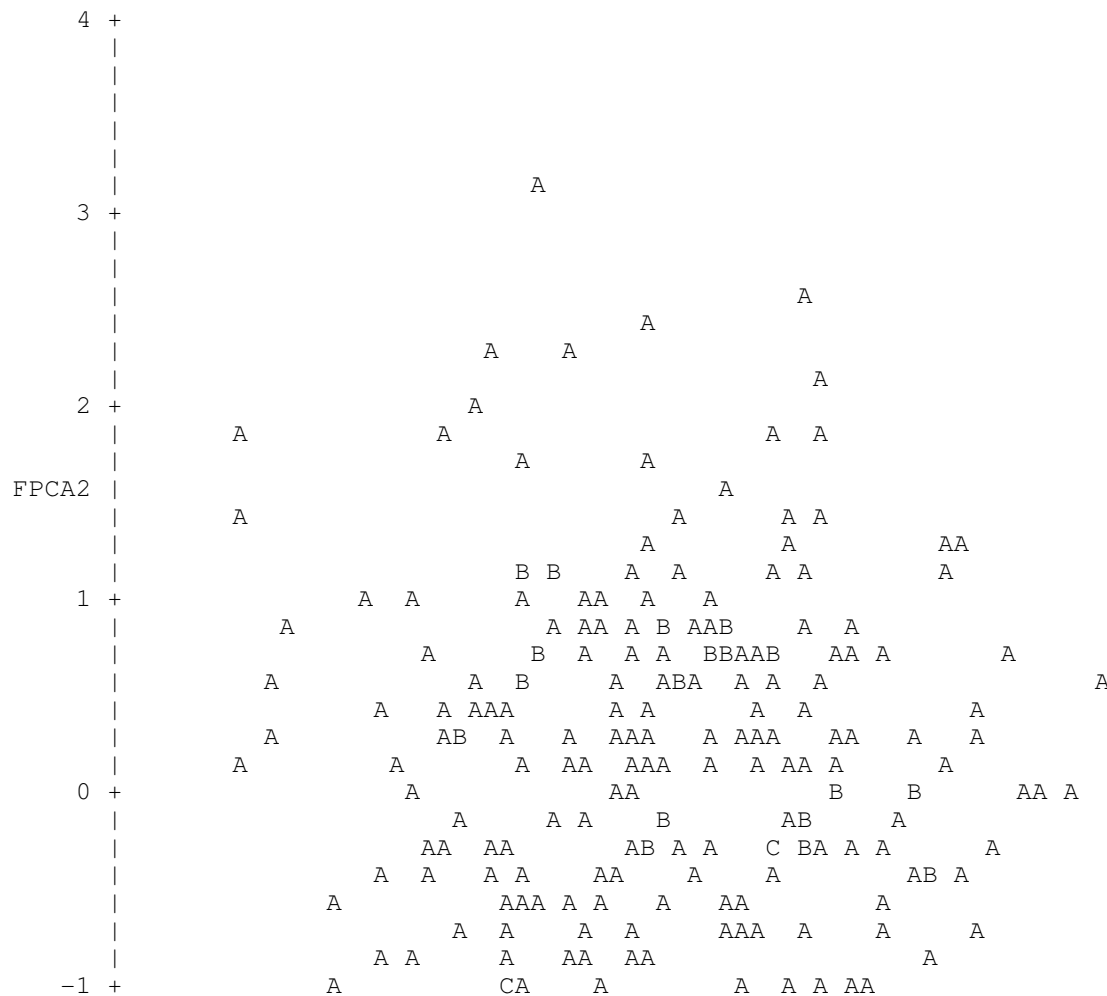


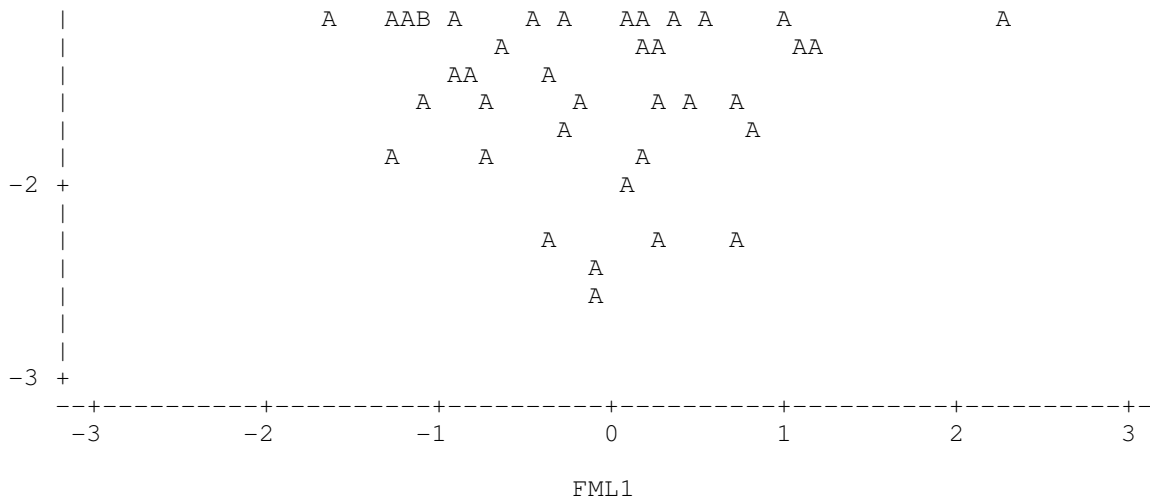


N3: Comparing factors by method

312

Plot of FPCA2*FML1. Legend: A = 1 obs, B = 2 obs, etc.

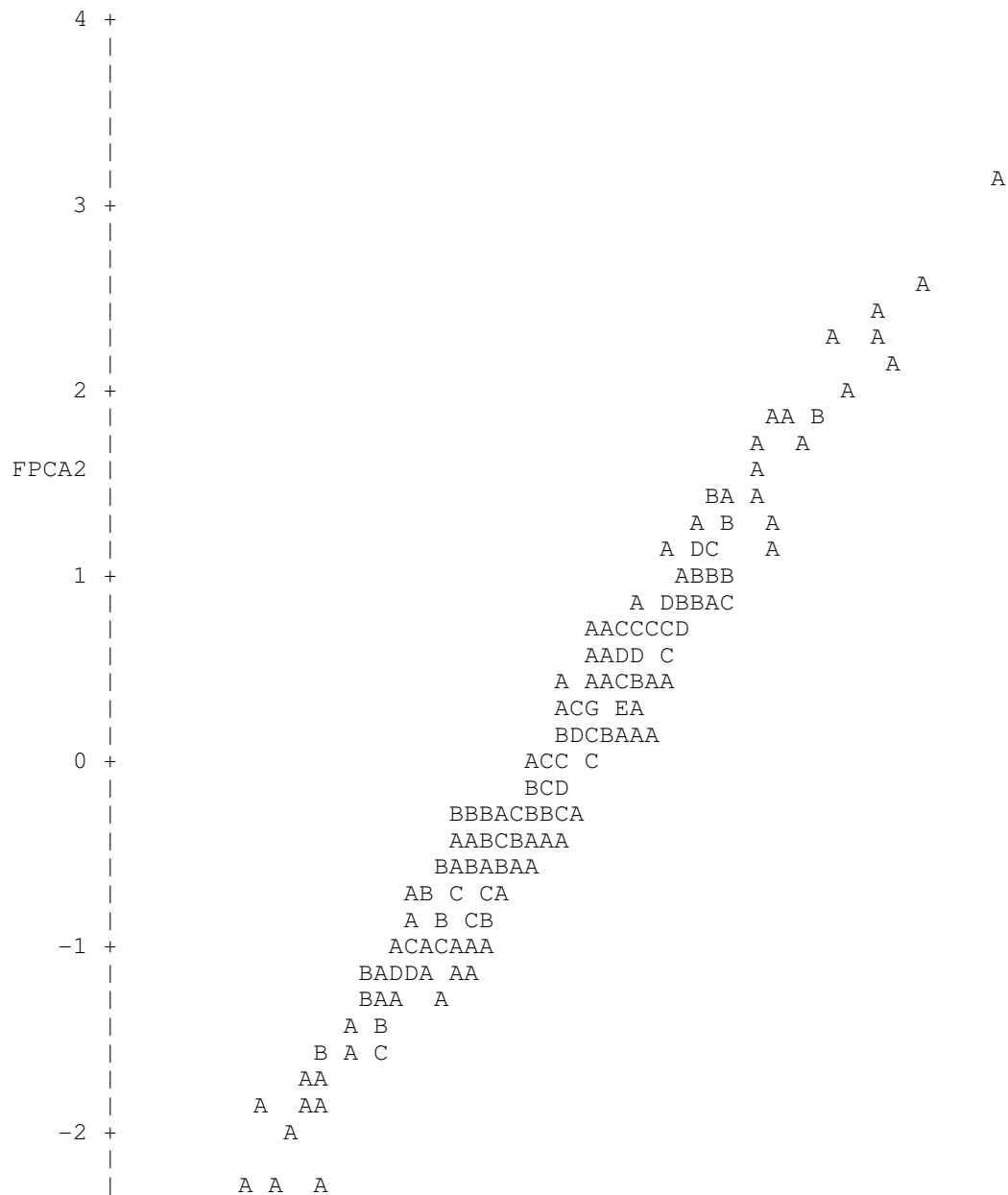


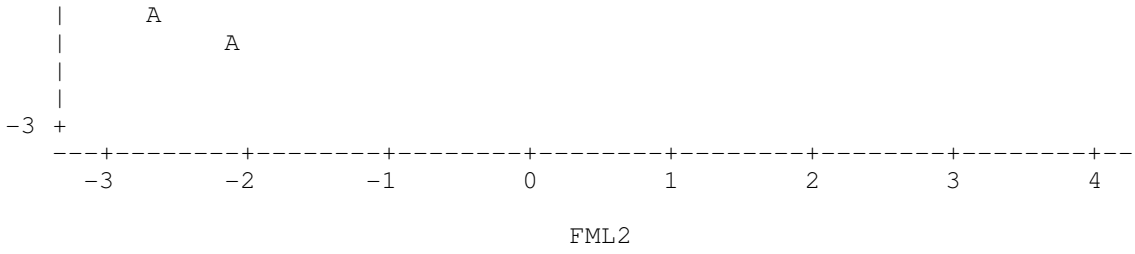


N3: Comparing factors by method

313

Plot of FPCA2*FML2. Legend: A = 1 obs, B = 2 obs, etc.





N1: up to 10 common factors: PCA 314
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Initial Factor Method: Principal Components

Prior Communality Estimates: ONE

Eigenvalues of the Correlation Matrix: Total = 10 Average = 1

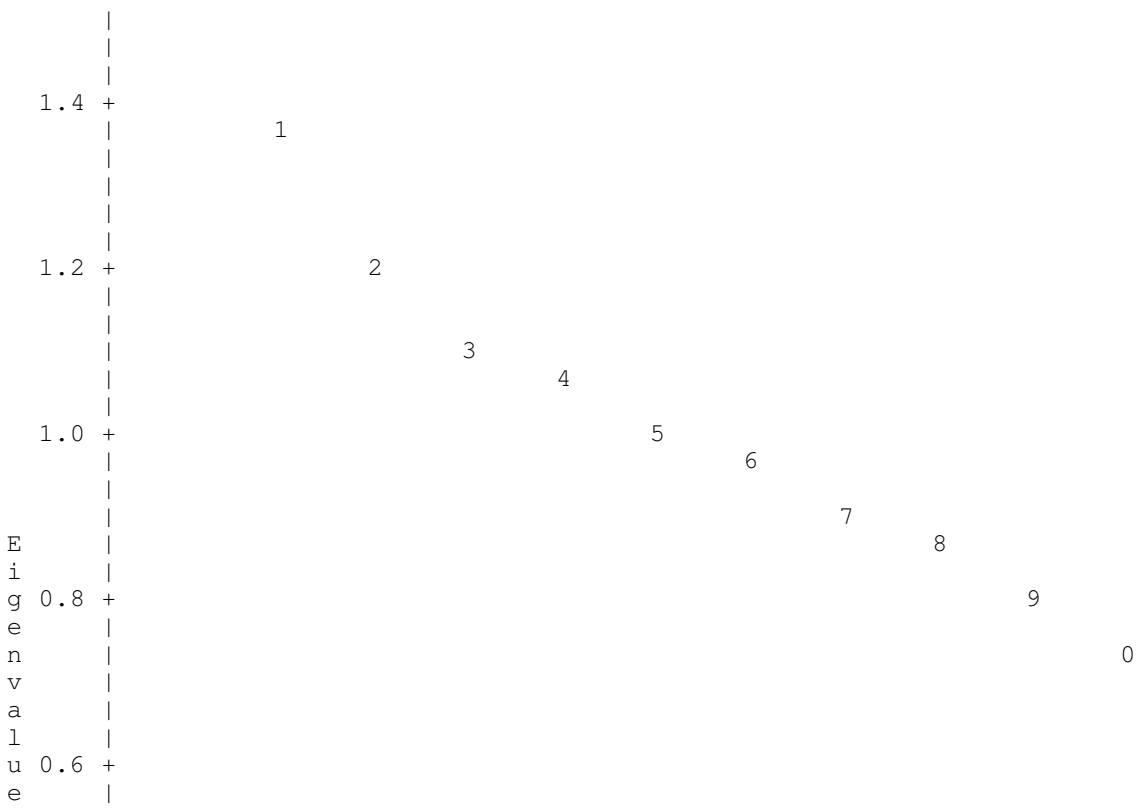
	1	2	3	4	5
Eigenvalue	1.3738	1.1869	1.1034	1.0613	1.0016
Difference	0.1869	0.0835	0.0421	0.0597	0.0231
Proportion	0.1374	0.1187	0.1103	0.1061	0.1002
Cumulative	0.1374	0.2561	0.3664	0.4725	0.5727
	6	7	8	9	10
Eigenvalue	0.9786	0.9103	0.8632	0.7907	0.7303
Difference	0.0682	0.0471	0.0725	0.0604	
Proportion	0.0979	0.0910	0.0863	0.0791	0.0730
Cumulative	0.6706	0.7616	0.8479	0.9270	1.0000

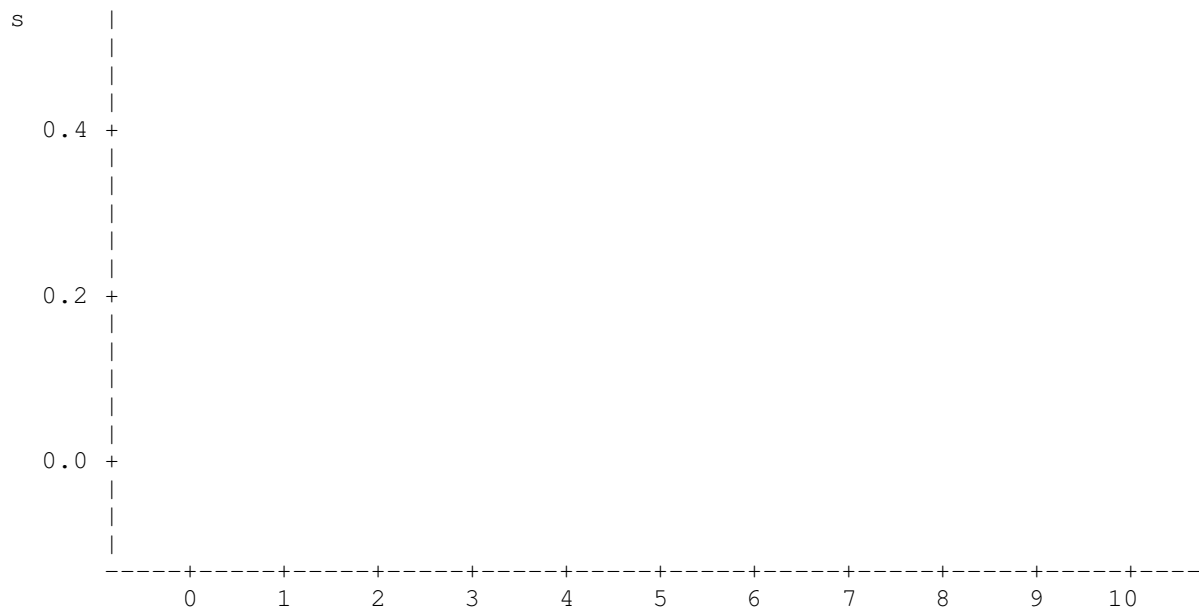
5 factors will be retained by the MINEIGEN criterion.

N1: up to 10 common factors: PCA 315
09:13 Wednesday, March 24, 1999

Initial Factor Method: Principal Components

Scree Plot of Eigenvalues





Number
N1: up to 10 common factors: PCA 316
09:13 Wednesday, March 24, 1999

Initial Factor Method: Principal Components

	Factor Pattern				
	FACTOR1	FACTOR2	FACTOR3	FACTOR4	FACTOR5
X1	0.01069	-0.55305	-0.40019	-0.15921	0.14023
X2	0.42347	0.14703	-0.36907	0.49179	-0.22300
X3	0.18727	0.60340	0.07144	-0.37765	-0.13234
X4	-0.50072	0.26748	0.04539	0.49230	-0.20677
X5	0.36978	-0.28765	0.06093	0.32570	-0.55251
X6	0.30057	-0.39337	0.44624	0.04906	0.19676
X7	0.40083	0.21142	0.55749	-0.06373	-0.07260
X8	0.47888	0.08219	0.06660	0.37809	0.55829
X9	-0.41039	0.13374	0.15624	0.38725	0.39408
X10	0.35083	0.34196	-0.50730	-0.06017	0.23607

Variance explained by each factor

FACTOR1	FACTOR2	FACTOR3	FACTOR4	FACTOR5
1.373807	1.186870	1.103371	1.061275	1.001623

Final Communality Estimates: Total = 5.726946

X1	X2	X3	X4	X5
0.511143	0.628743	0.564396	0.609444	0.634541
X6	X7	X8	X9	X10
0.485338	0.525488	0.695161	0.515973	0.556721

N1: up to 10 common factors: ML 317
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Initial Factor Method: Maximum Likelihood

Prior Communality Estimates: SMC

X1	X2	X3	X4	X5
0.026854	0.037483	0.031480	0.049254	0.024931
X6	X7	X8	X9	X10

0.022770 0.032153 0.036022 0.025594 0.032692

Preliminary Eigenvalues: Total = 0.33036742 Average = 0.03303674

	1	2	3	4	5
Eigenvalue	0.4232	0.2238	0.1381	0.1011	0.0335
Difference	0.1995	0.0857	0.0370	0.0676	0.0253
Proportion	1.2811	0.6773	0.4179	0.3060	0.1014
Cumulative	1.2811	1.9584	2.3763	2.6823	2.7837

	6	7	8	9	10
Eigenvalue	0.0082	-0.0602	-0.1117	-0.1836	-0.2420
Difference	0.0684	0.0515	0.0718	0.0584	
Proportion	0.0248	-0.1823	-0.3382	-0.5556	-0.7324
Cumulative	2.8085	2.6262	2.2880	1.7324	1.0000

1 factors will be retained by the PROPORTION criterion.

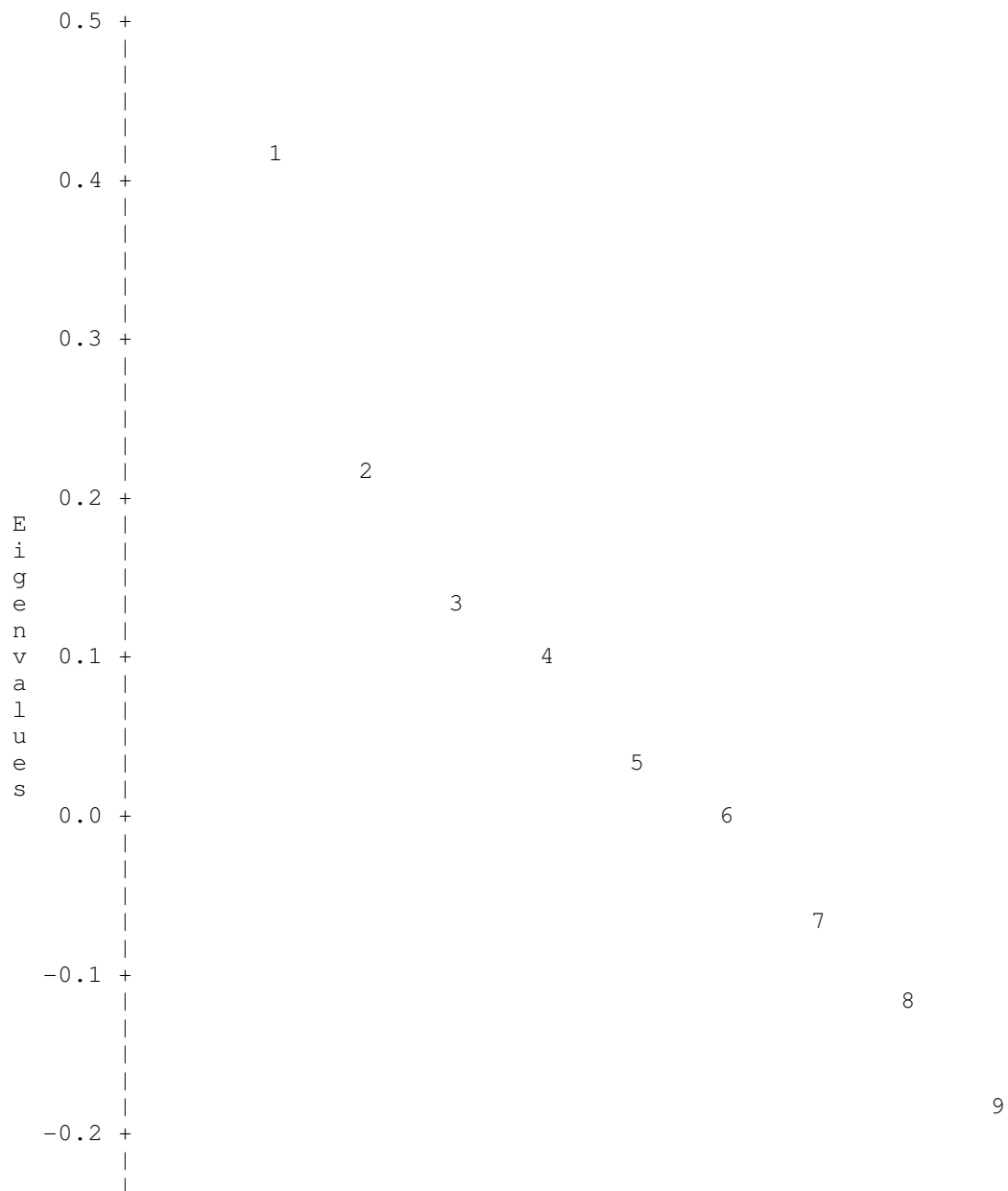
N1: up to 10 common factors: ML

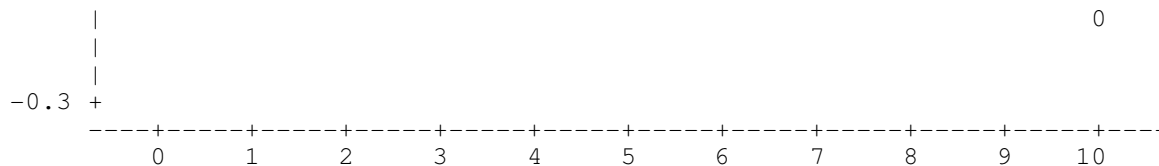
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Initial Factor Method: Maximum Likelihood

Scree Plot of Eigenvalues





Number

N1: up to 10 common factors: ML 319

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Initial Factor Method: Maximum Likelihood

Iter	Criterion	Ridge	Change	Communalities					
1	0.09606	0.000	0.04390	0.00006	0.05459	0.00894	0.09077	0.03916	
				0.02399	0.04763	0.07992	0.05164	0.03538	
2	0.09605	0.000	0.00275	0.00028	0.05203	0.00845	0.09291	0.04054	
				0.02674	0.04663	0.07909	0.05071	0.03544	
3	0.09605	0.000	0.00089	0.00032	0.05150	0.00831	0.09380	0.04060	
				0.02700	0.04654	0.07879	0.05102	0.03503	

Convergence criterion satisfied.

Significance tests based on 250 observations:

Test of H0: No common factors.
vs HA: At least one common factor.

Chi-square = 40.041 df = 45 Prob>chi**2 = 0.6816

Test of H0: 1 Factors are sufficient.
vs HA: More factors are needed.

Chi-square = 23.452 df = 35 Prob>chi**2 = 0.9316

Chi-square without Bartlett's correction = 23.916227045

Akaike's Information Criterion = -46.08377296

Schwarz's Bayesian Criterion = -169.3349051

Tucker and Lewis's Reliability Coefficient = 0

Squared Canonical Correlations

FACTOR1
0.315526

Eigenvalues of the Weighted Reduced Correlation Matrix:

Total = 0.4609746 Average = 0.04609746

	1	2	3	4	5
Eigenvalue	0.4610	0.2189	0.1440	0.1251	0.0620
Difference	0.2421	0.0749	0.0189	0.0631	0.0526
Proportion	1.0000	0.4748	0.3124	0.2715	0.1345
Cumulative	1.0000	1.4748	1.7872	2.0586	2.1931

	6	7	8	9	10
Eigenvalue	0.0094	-0.0489	-0.1026	-0.1749	-0.2330
Difference	0.0583	0.0537	0.0723	0.0581	
Proportion	0.0204	-0.1060	-0.2226	-0.3794	-0.5055
Cumulative	2.2135	2.1075	1.8849	1.5055	1.0000

N1: up to 10 common factors: ML 320

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Initial Factor Method: Maximum Likelihood

Factor Pattern

FACTOR1

X1	0.01816
X2	0.22658
X3	0.09100
X4	-0.30654
X5	0.20157
X6	0.16455
X7	0.21569
X8	0.28052
X9	-0.22605
X10	0.18699

Variance explained by each factor

	FACTOR1
Weighted	0.460976
Unweighted	0.432903

Final Communalities Estimates and Variable Weights

Total Communalities: Weighted = 0.460976 Unweighted = 0.432903

	X1	X2	X3	X4	X5
Communalities	0.000330	0.051340	0.008282	0.093965	0.040629
Weights	1.000317	1.054294	1.008376	1.103515	1.042316

	X6	X7	X8	X9	X10
Communalities	0.027076	0.046524	0.078694	0.051100	0.034965
Weights	1.027748	1.048815	1.085530	1.053759	1.036305

N1: 2 common factors: PCA

321

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Initial Factor Method: Principal Components

Partial Correlations Controlling all other Variables

	X1	X2	X3	X4	X5
X1	1.00000	0.05044	-0.08561	-0.11348	-0.01617
X2	0.05044	1.00000	0.04186	0.04588	0.10369
X3	-0.08561	0.04186	1.00000	-0.06992	-0.04105
X4	-0.11348	0.04588	-0.06992	1.00000	-0.07158
X5	-0.01617	0.10369	-0.04105	-0.07158	1.00000
X6	-0.00723	-0.01540	-0.07128	-0.06917	0.04510
X7	-0.05919	0.02965	0.09605	-0.03611	0.02001
X8	-0.03111	0.09740	-0.02698	-0.08328	0.01767
X9	-0.00821	-0.03948	0.00962	0.09621	-0.04472
X10	-0.04615	0.09566	0.05092	-0.05673	-0.03900
	X6	X7	X8	X9	X10
X1	-0.00723	-0.05919	-0.03111	-0.00821	-0.04615
X2	-0.01540	0.02965	0.09740	-0.03948	0.09566
X3	-0.07128	0.09605	-0.02698	0.00962	0.05092
X4	-0.06917	-0.03611	-0.08328	0.09621	-0.05673
X5	0.04510	0.02001	0.01767	-0.04472	-0.03900
X6	1.00000	0.06439	0.05045	-0.03508	-0.02740
X7	0.06439	1.00000	0.08221	-0.04906	-0.04525
X8	0.05045	0.08221	1.00000	0.03733	0.07355
X9	-0.03508	-0.04906	0.03733	1.00000	-0.07561
X10	-0.02740	-0.04525	0.07355	-0.07561	1.00000

Kaiser's Measure of Sampling Adequacy: Over-all MSA = 0.51104148

	X1	X2	X3	X4	X5
	0.451727	0.500065	0.477013	0.503047	0.527286

	X6	X7	X8	X9	X10
	0.545676	0.531277	0.532336	0.545915	0.509660

Prior Communality Estimates: ONE

Eigenvalues of the Correlation Matrix: Total = 10 Average = 1

	1	2	3	4	5
Eigenvalue	1.3738	1.1869	1.1034	1.0613	1.0016
Difference	0.1869	0.0835	0.0421	0.0597	0.0231
Proportion	0.1374	0.1187	0.1103	0.1061	0.1002
Cumulative	0.1374	0.2561	0.3664	0.4725	0.5727

	6	7	8	9	10
Eigenvalue	0.9786	0.9103	0.8632	0.7907	0.7303
Difference	0.0682	0.0471	0.0725	0.0604	
Proportion	0.0979	0.0910	0.0863	0.0791	0.0730
Cumulative	0.6706	0.7616	0.8479	0.9270	1.0000

2 factors will be retained by the NFACTOR criterion.

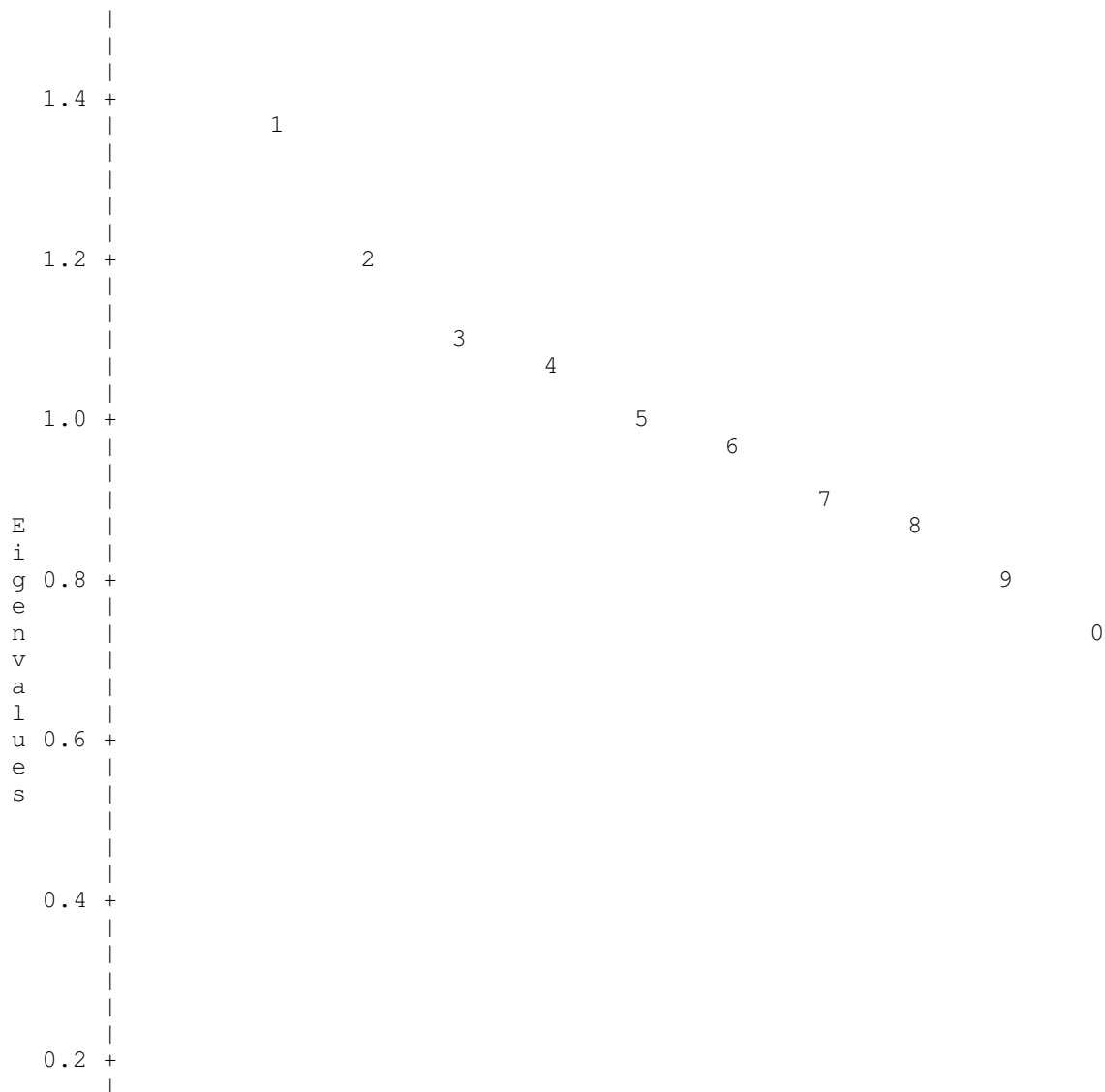
N1: 2 common factors: PCA

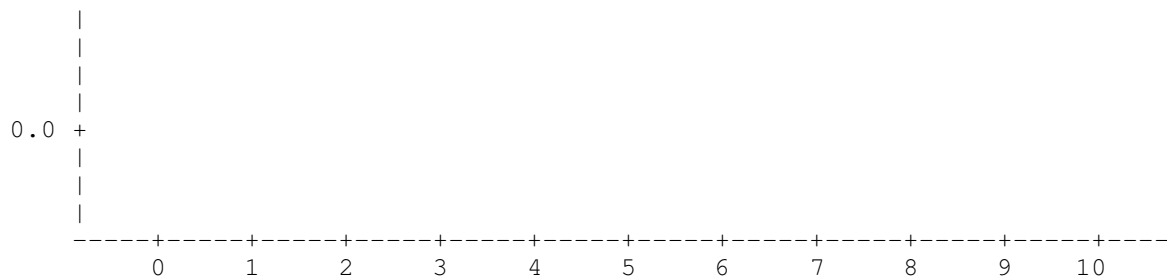
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Initial Factor Method: Principal Components

Scree Plot of Eigenvalues





Number
N1: 2 common factors: PCA 323
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Initial Factor Method: Principal Components

Eigenvectors

	1	2
X1	0.00912	-0.50765
X2	0.36129	0.13496
X3	0.15978	0.55386
X4	-0.42720	0.24552
X5	0.31549	-0.26403
X6	0.25644	-0.36108
X7	0.34198	0.19406
X8	0.40857	0.07545
X9	-0.35013	0.12276
X10	0.29932	0.31388

Factor Pattern

	FACTOR1	FACTOR2
X1	0.01069	-0.55305
X2	0.42347	0.14703
X3	0.18727	0.60340
X4	-0.50072	0.26748
X5	0.36978	-0.28765
X6	0.30057	-0.39337
X7	0.40083	0.21142
X8	0.47888	0.08219
X9	-0.41039	0.13374
X10	0.35083	0.34196

Variance explained by each factor

FACTOR1 FACTOR2
1.373807 1.186870

Final Community Estimates: Total = 2.560678

X1	X2	X3	X4	X5
0.305976	0.200943	0.399160	0.322265	0.219482
X6	X7	X8	X9	X10
0.245083	0.205365	0.236085	0.186304	0.240014

N1: 2 common factors: PCA 324
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Initial Factor Method: Principal Components

Residual Correlations With Uniqueness on the Diagonal

X1	X2	X3	X4	X5
----	----	----	----	----

X1	0.69402	0.11120	0.24732	0.05363	-0.16436
X2	0.11120	0.79906	-0.12777	0.18467	-0.01255
X3	0.24732	-0.12777	0.60084	-0.12521	0.06951
X4	0.05363	0.18467	-0.12521	0.67773	0.18629
X5	-0.16436	-0.01255	0.06951	0.18629	0.78052
X6	-0.21927	-0.07759	0.11621	0.17692	-0.16629
X7	0.05065	-0.16181	-0.10639	0.09215	-0.05441
X8	0.01488	-0.11032	-0.14646	0.12966	-0.11677
X9	0.06333	0.10571	-0.00647	-0.13400	0.13320
X10	0.14614	-0.09731	-0.21168	0.02265	-0.05391

	X6	X7	X8	X9	X10
X1	-0.21927	0.05065	0.01488	0.06333	0.14614
X2	-0.07759	-0.16181	-0.11032	0.10571	-0.09731
X3	0.11621	-0.10639	-0.14646	-0.00647	-0.21168
X4	0.17692	0.09215	0.12966	-0.13400	0.02265
X5	-0.16629	-0.05441	-0.11677	0.13320	-0.05391
X6	0.75492	0.03256	-0.05069	0.13105	0.00462
X7	0.03256	0.79464	-0.11940	0.08304	-0.23624
X8	-0.05069	-0.11940	0.76391	0.19608	-0.11451
X9	0.13105	0.08304	0.19608	0.81370	0.01930
X10	0.00462	-0.23624	-0.11451	0.01930	0.75999

Root Mean Square Off-diagonal Residuals: Over-all = 0.12747853

	X1	X2	X3	X4	X5
	0.141285	0.119242	0.144962	0.134344	0.120924
	X6	X7	X8	X9	X10
	0.127970	0.119973	0.121415	0.112455	0.128395

Partial Correlations Controlling Factors

	X1	X2	X3	X4	X5
X1	1.00000	0.14933	0.38299	0.07819	-0.22331
X2	0.14933	1.00000	-0.18440	0.25094	-0.01589
X3	0.38299	-0.18440	1.00000	-0.19622	0.10150
X4	0.07819	0.25094	-0.19622	1.00000	0.25614
X5	-0.22331	-0.01589	0.10150	0.25614	1.00000
X6	-0.30293	-0.09991	0.17256	0.24734	-0.21663
X7	0.06820	-0.20306	-0.15397	0.12557	-0.06909
X8	0.02044	-0.14120	-0.21618	0.18020	-0.15123
X9	0.08427	0.13109	-0.00926	-0.18045	0.16715
X10	0.20122	-0.12487	-0.31325	0.03156	-0.06999

N1: 2 common factors: PCA

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Initial Factor Method: Principal Components

Partial Correlations Controlling Factors

	X6	X7	X8	X9	X10
X1	-0.30293	0.06820	0.02044	0.08427	0.20122
X2	-0.09991	-0.20306	-0.14120	0.13109	-0.12487
X3	0.17256	-0.15397	-0.21618	-0.00926	-0.31325
X4	0.24734	0.12557	0.18020	-0.18045	0.03156
X5	-0.21663	-0.06909	-0.15123	0.16715	-0.06999
X6	1.00000	0.04204	-0.06675	0.16721	0.00610
X7	0.04204	1.00000	-0.15325	0.10327	-0.30400
X8	-0.06675	-0.15325	1.00000	0.24870	-0.15028
X9	0.16721	0.10327	0.24870	1.00000	0.02455
X10	0.00610	-0.30400	-0.15028	0.02455	1.00000

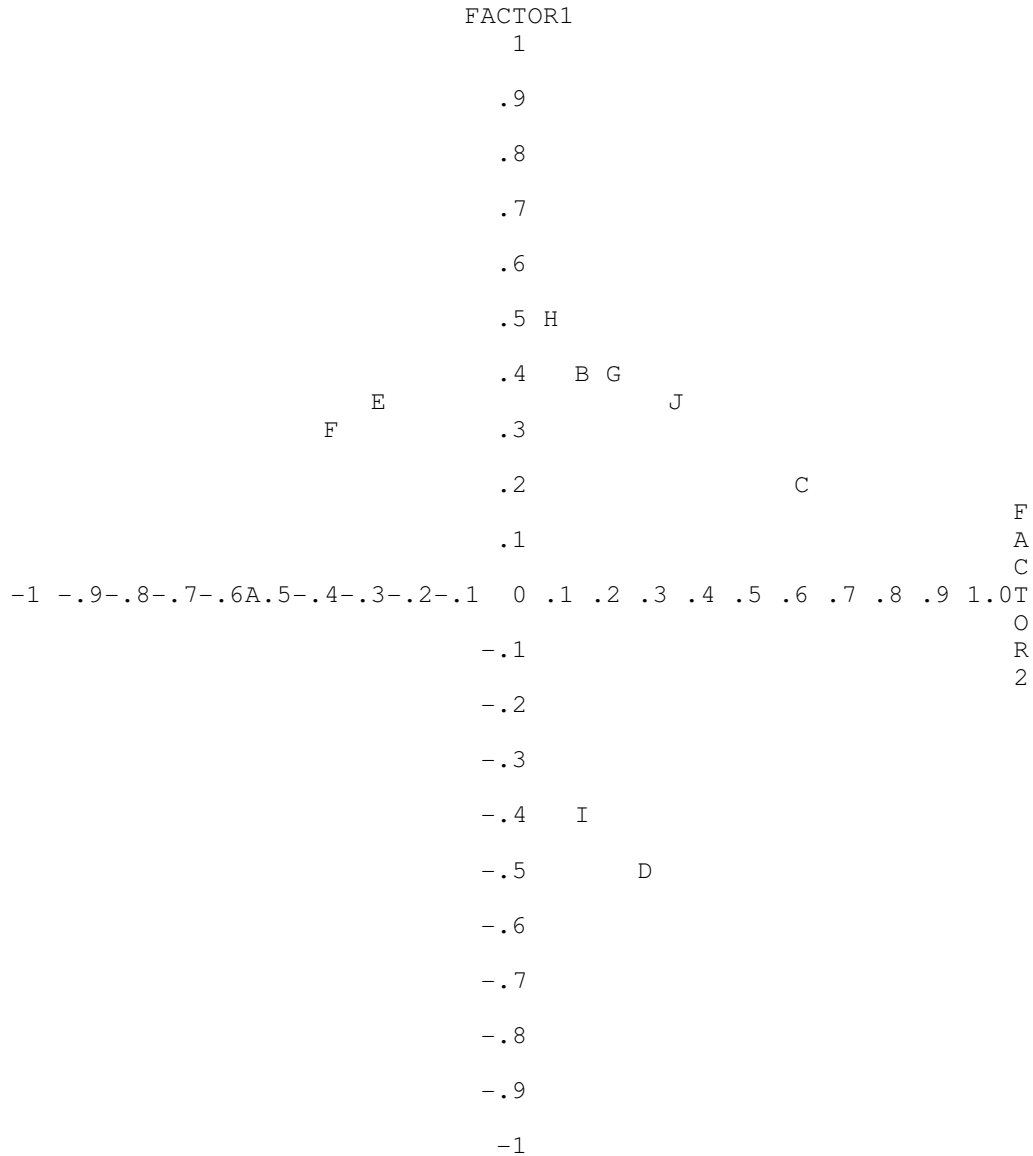
Root Mean Square Off-diagonal Partial: Over-all = 0.17509329

X1	X2	X3	X4	X5
0.202591	0.157571	0.218051	0.187429	0.161051
X6	X7	X8	X9	X10
0.174437	0.155802	0.161524	0.143740	0.175037

N1: 2 common factors: PCA 326
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Initial Factor Method: Principal Components

Plot of Factor Pattern for FACTOR1 and FACTOR2



X1	=A	X2	=B	X3	=C	X4	=D	X5	=E
X6	=F	X7	=G	X8	=H	X9	=I	X10	=J

N1: 2 common factors: PCA 327
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Rotation Method: Varimax

Orthogonal Transformation Matrix

1	2
---	---

1	0.72221	0.69168
2	-0.69168	0.72221

Rotated Factor Pattern

	FACTOR1	FACTOR2
X1	0.39026	-0.39202
X2	0.20414	0.39909
X3	-0.28211	0.56531
X4	-0.54663	-0.15316
X5	0.46602	0.04803
X6	0.48916	-0.07620
X7	0.14325	0.42994
X8	0.28900	0.39059
X9	-0.38889	-0.18727
X10	0.01684	0.48962

Variance explained by each factor

FACTOR1	FACTOR2
1.284373	1.276305

Final Communality Estimates: Total = 2.560678

X1	X2	X3	X4	X5
0.305976	0.200943	0.399160	0.322265	0.219482

X6	X7	X8	X9	X10
0.245083	0.205365	0.236085	0.186304	0.240014

Scoring Coefficients Estimated by Regression

Squared Multiple Correlations of the Variables with each Factor

FACTOR1	FACTOR2
1.000000	1.000000

N1: 2 common factors: PCA 328
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Rotation Method: Varimax

Standardized Scoring Coefficients

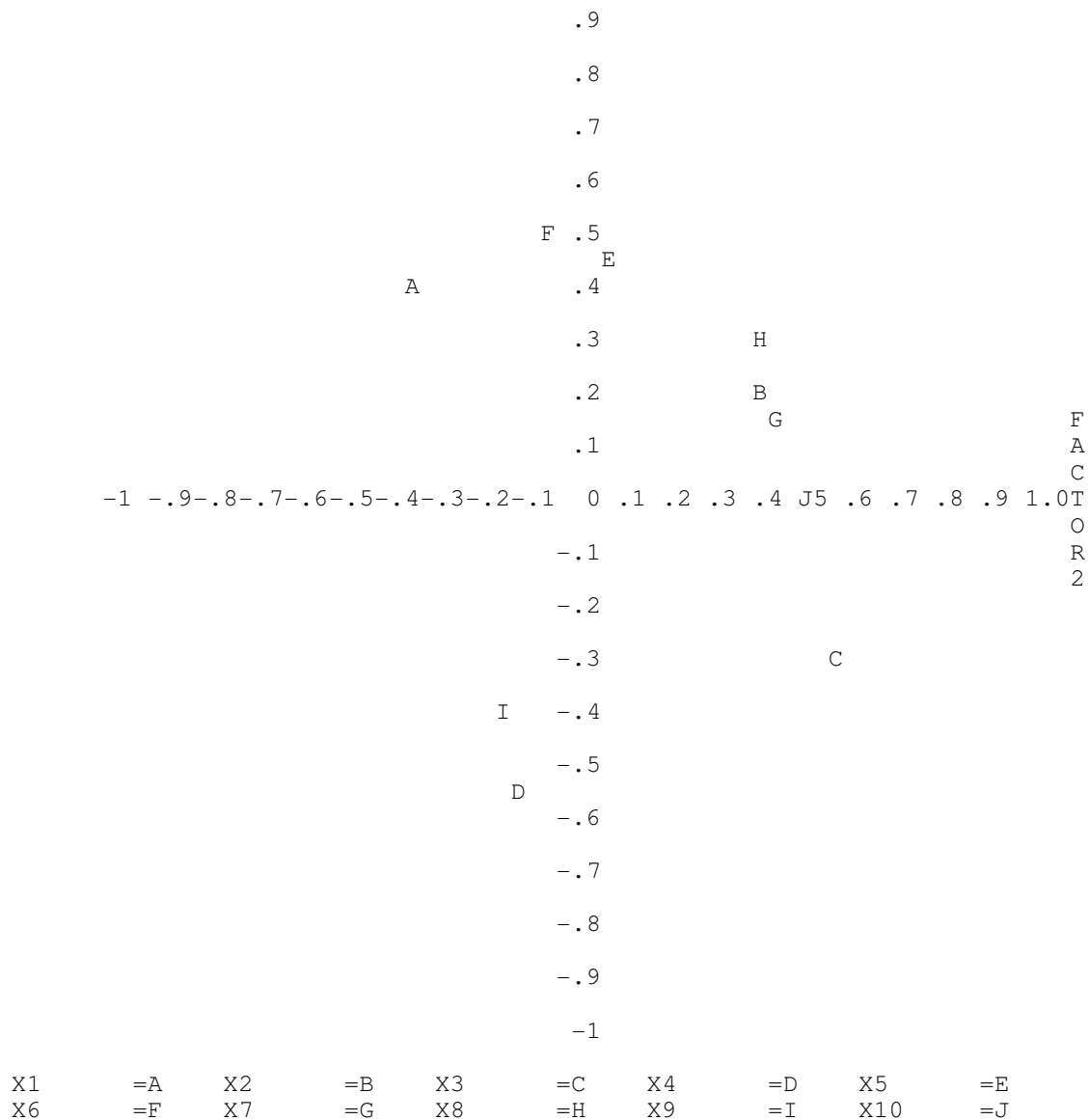
	FACTOR1	FACTOR2
X1	0.32792	-0.33114
X2	0.13693	0.30267
X3	-0.25320	0.46145
X4	-0.41911	-0.08934
X5	0.36203	0.01115
X6	0.38726	-0.08804
X7	0.08751	0.33046
X8	0.20385	0.29112
X9	-0.29368	-0.12524
X10	-0.01486	0.38471

N1: 2 common factors: PCA 329
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Rotation Method: Varimax

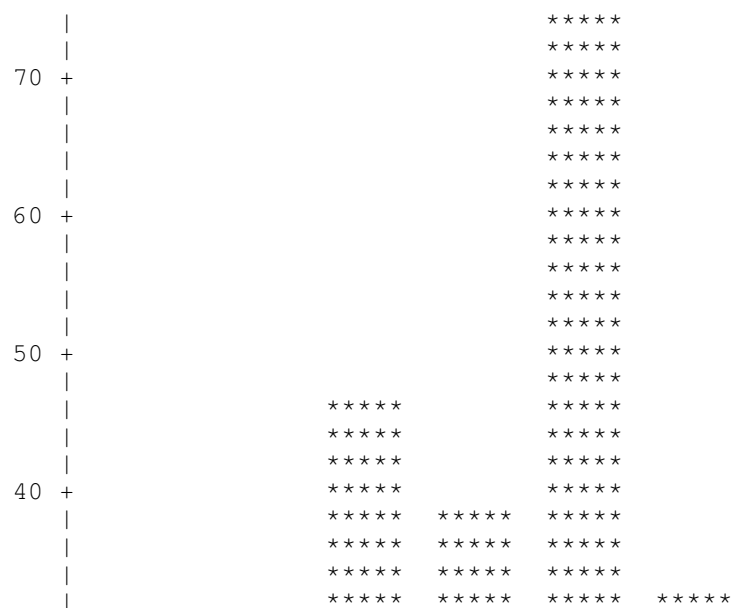
Plot of Factor Pattern for FACTOR1 and FACTOR2

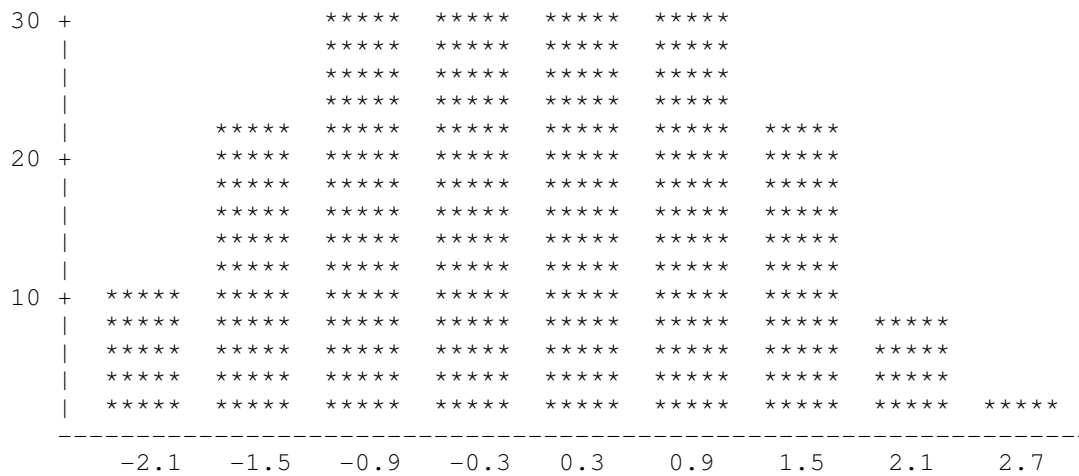
FACTOR1
1



N1: 2 common factors: PCA 330
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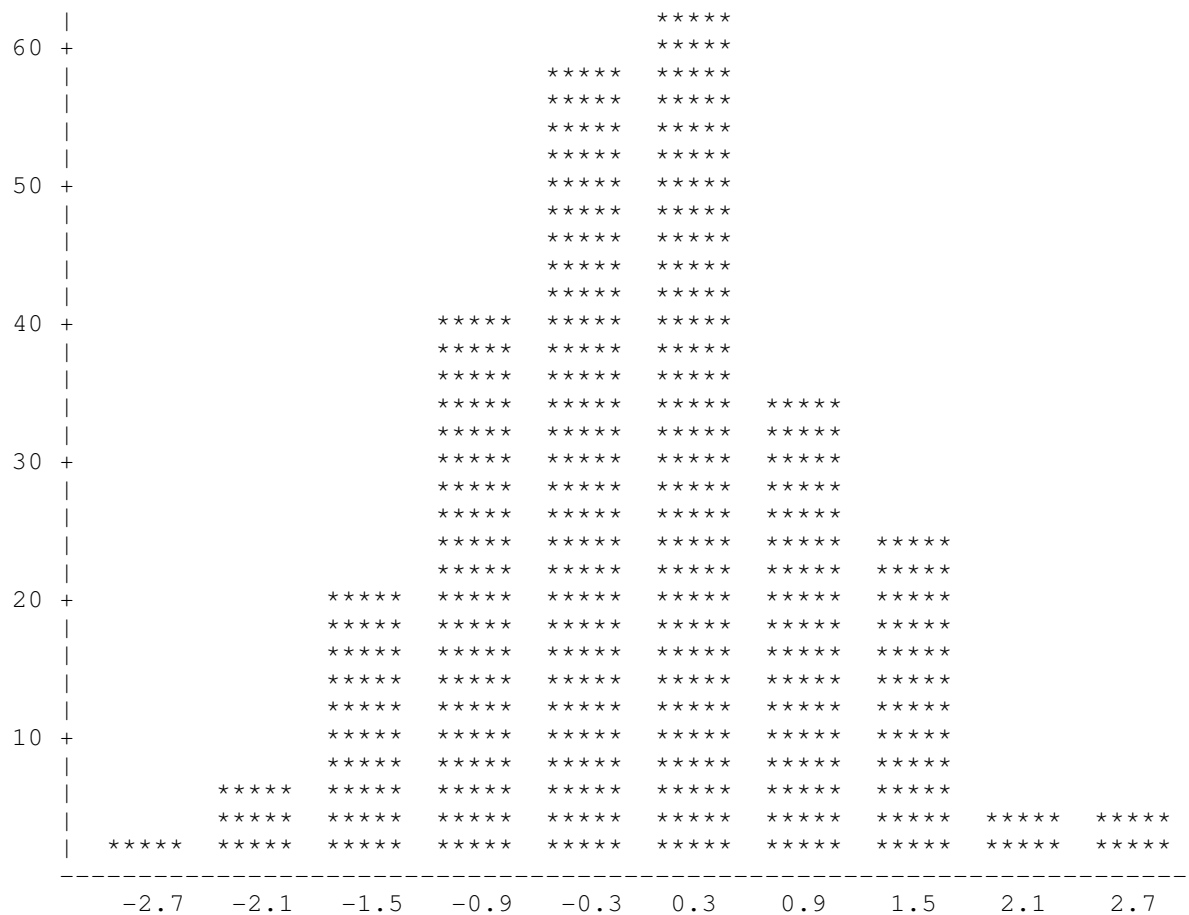
Frequency





FACTOR1 Midpoint
 N1: 2 common factors: PCA 331
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Frequency



FACTOR2 Midpoint
 N1: 2 common factors: ML 332
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Initial Factor Method: Maximum Likelihood

Partial Correlations Controlling all other Variables

	X1	X2	X3	X4	X5
X1	1.00000	0.05044	-0.08561	-0.11348	-0.01617

X2	0.05044	1.00000	0.04186	0.04588	0.10369
X3	-0.08561	0.04186	1.00000	-0.06992	-0.04105
X4	-0.11348	0.04588	-0.06992	1.00000	-0.07158
X5	-0.01617	0.10369	-0.04105	-0.07158	1.00000
X6	-0.00723	-0.01540	-0.07128	-0.06917	0.04510
X7	-0.05919	0.02965	0.09605	-0.03611	0.02001
X8	-0.03111	0.09740	-0.02698	-0.08328	0.01767
X9	-0.00821	-0.03948	0.00962	0.09621	-0.04472
X10	-0.04615	0.09566	0.05092	-0.05673	-0.03900

	X6	X7	X8	X9	X10
X1	-0.00723	-0.05919	-0.03111	-0.00821	-0.04615
X2	-0.01540	0.02965	0.09740	-0.03948	0.09566
X3	-0.07128	0.09605	-0.02698	0.00962	0.05092
X4	-0.06917	-0.03611	-0.08328	0.09621	-0.05673
X5	0.04510	0.02001	0.01767	-0.04472	-0.03900
X6	1.00000	0.06439	0.05045	-0.03508	-0.02740
X7	0.06439	1.00000	0.08221	-0.04906	-0.04525
X8	0.05045	0.08221	1.00000	0.03733	0.07355
X9	-0.03508	-0.04906	0.03733	1.00000	-0.07561
X10	-0.02740	-0.04525	0.07355	-0.07561	1.00000

Kaiser's Measure of Sampling Adequacy: Over-all MSA = 0.51104148

X1	X2	X3	X4	X5
0.451727	0.500065	0.477013	0.503047	0.527286
X6	X7	X8	X9	X10
0.545676	0.531277	0.532336	0.545915	0.509660

Prior Communality Estimates: SMC

X1	X2	X3	X4	X5
0.026854	0.037483	0.031480	0.049254	0.024931
X6	X7	X8	X9	X10
0.022770	0.032153	0.036022	0.025594	0.032692

Preliminary Eigenvalues: Total = 0.33036742 Average = 0.03303674

	1	2	3	4	5
Eigenvalue	0.4232	0.2238	0.1381	0.1011	0.0335
Difference	0.1995	0.0857	0.0370	0.0676	0.0253
Proportion	1.2811	0.6773	0.4179	0.3060	0.1014
Cumulative	1.2811	1.9584	2.3763	2.6823	2.7837

N1: 2 common factors: ML 333
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Initial Factor Method: Maximum Likelihood

	6	7	8	9	10
Eigenvalue	0.0082	-0.0602	-0.1117	-0.1836	-0.2420
Difference	0.0684	0.0515	0.0718	0.0584	
Proportion	0.0248	-0.1823	-0.3382	-0.5556	-0.7324
Cumulative	2.8085	2.6262	2.2880	1.7324	1.0000

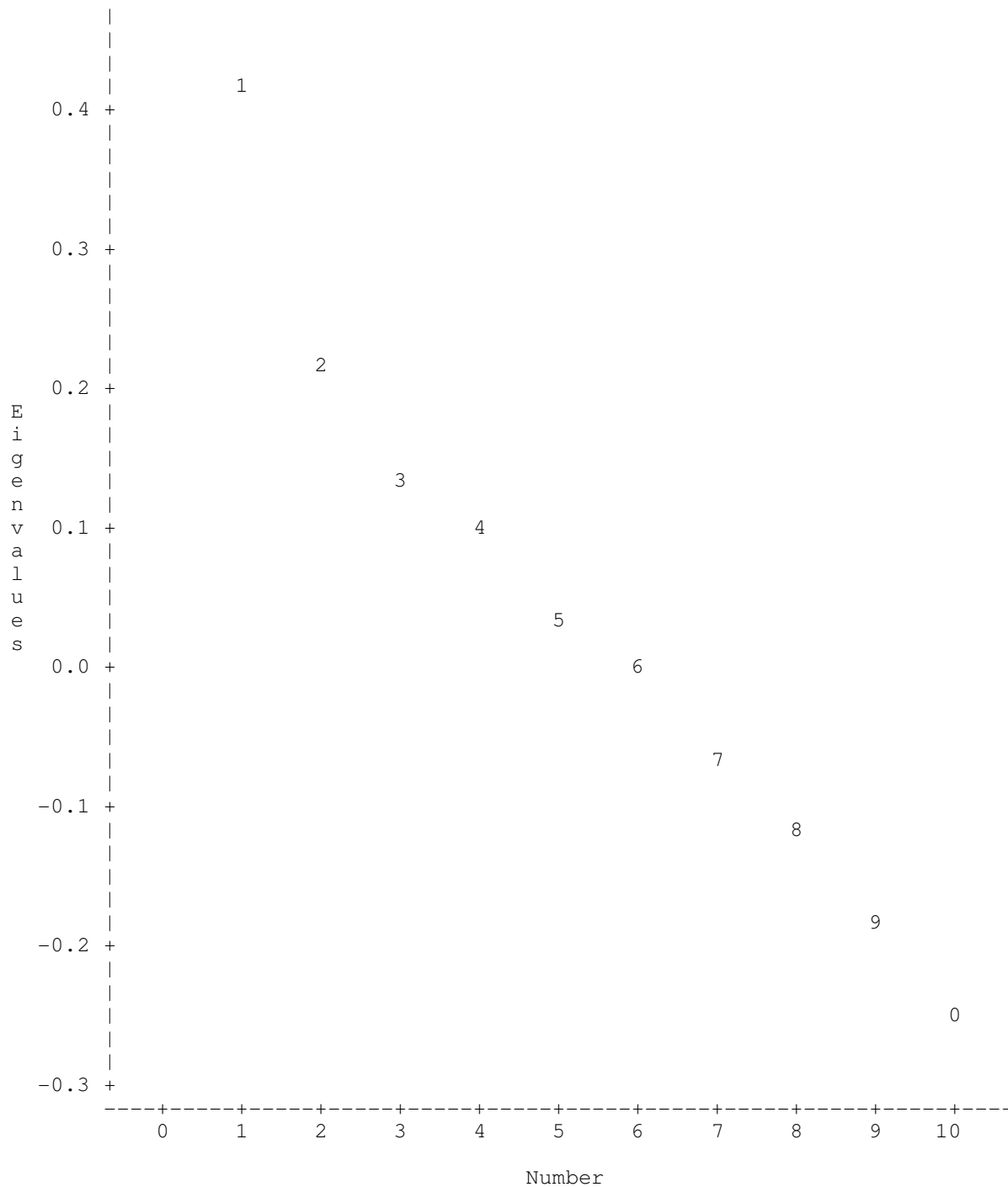
2 factors will be retained by the NFACTOR criterion.

N1: 2 common factors: ML 334
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Initial Factor Method: Maximum Likelihood

Scree Plot of Eigenvalues

0.5 +
|



N1: 2 common factors: ML 335
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Initial Factor Method: Maximum Likelihood

Iter	Criterion	Ridge	Change	Communalities					
1	0.06936	0.000	0.08199	0.06115	0.05816	0.11347	0.12248	0.05528	
				0.05546	0.05615	0.07834	0.05363	0.06056	
2	0.06922	0.000	0.01371	0.06391	0.05168	0.12717	0.12338	0.05400	
				0.05663	0.06122	0.07334	0.05480	0.05693	
3	0.06917	0.000	0.01131	0.06219	0.04942	0.13848	0.12280	0.05422	
				0.05634	0.06306	0.07173	0.05519	0.05362	
4	0.06913	0.000	0.01037	0.05929	0.04832	0.14885	0.12094	0.05483	
				0.05690	0.06376	0.07080	0.05523	0.05177	

5	0.06909	0.000	0.01096	0.05577	0.04772	0.15982	0.11877	0.05555
				0.05765	0.06381	0.07025	0.05515	0.05039
6	0.06905	0.000	0.01233	0.05204	0.04727	0.17215	0.11658	0.05624
				0.05833	0.06358	0.06987	0.05501	0.04904
7	0.06899	0.000	0.01442	0.04821	0.04686	0.18657	0.11450	0.05683
				0.05876	0.06321	0.06958	0.05485	0.04753
8	0.06893	0.000	0.01748	0.04426	0.04645	0.20405	0.11260	0.05725
				0.05886	0.06268	0.06940	0.05467	0.04579
9	0.06885	0.000	0.02213	0.04009	0.04602	0.22618	0.11089	0.05747
				0.05852	0.06192	0.06932	0.05450	0.04377
10	0.06875	0.000	0.02966	0.03555	0.04560	0.25583	0.10941	0.05740
				0.05763	0.06076	0.06942	0.05432	0.04143
11	0.06859	0.000	0.04278	0.03045	0.04522	0.29861	0.10814	0.05693
				0.05597	0.05897	0.06978	0.05416	0.03875
12	0.06836	0.000	0.06790	0.02459	0.04492	0.36652	0.10708	0.05588
				0.05323	0.05619	0.07051	0.05400	0.03570
13	0.06801	0.000	0.12197	0.01781	0.04477	0.48849	0.10610	0.05407
				0.04903	0.05199	0.07174	0.05387	0.03241
14	0.06751	0.000	0.25840	0.01030	0.04485	0.74690	0.10477	0.05145
				0.04322	0.04612	0.07337	0.05378	0.02927
15	0.06722	0.000	0.25310	0.00758	0.04497	1.00000	0.10389	0.05036
				0.04075	0.04359	0.07390	0.05376	0.02846
16	0.06721	0.000	0.00276	0.00969	0.04605	1.00000	0.10258	0.05090
				0.04263	0.04635	0.07583	0.05350	0.02977
17	0.06720	0.000	0.00048	0.00959	0.04636	1.00000	0.10209	0.05086
				0.04261	0.04652	0.07630	0.05321	0.02973

Convergence criterion satisfied.

N1: 2 common factors: ML

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Initial Factor Method: Maximum Likelihood

Significance tests based on 250 observations:

Test of H0: No common factors.

vs HA: At least one common factor.

Chi-square = 40.041 df = 45 Prob>chi**2 = 0.6816

Test of H0: 2 Factors are sufficient.

vs HA: More factors are needed.

Chi-square = 16.364 df = 26 Prob>chi**2 = 0.9270

Chi-square without Bartlett's correction = 16.733978099

Akaike's Information Criterion = -35.2660219

Schwarz's Bayesian Criterion = -126.8240058

Tucker and Lewis's Reliability Coefficient = 0

Squared Canonical Correlations

FACTOR1	FACTOR2
1.000000	0.313442

Eigenvectors

	1	2
X1	-0.08439	0.08839
X2	0.04318	0.37533
X3	0.99550	-0.00879
X4	0.00000	-0.56278
X5	0.00000	0.31704
X6	0.00000	0.29148
X7	0.00000	0.27932
X8	0.00000	0.36617
X9	0.00000	-0.31079
X10	0.00000	0.20087

Eigenvalues of the Weighted Reduced Correlation Matrix:

Total = 0.4565397 Average = 0.05072663

	1	2	3	4	5
Eigenvalue	.	0.4565	0.1778	0.1463	0.0726
Difference	.	0.2787	0.0315	0.0737	0.0203
Proportion	.	1.0000	0.3894	0.3205	0.1591
Cumulative	.	1.0000	1.3894	1.7100	1.8690

	6	7	8	9	10
Eigenvalue	0.0523	-0.0377	-0.0577	-0.1455	-0.2082
Difference	0.0900	0.0200	0.0878	0.0628	
Proportion	0.1146	-0.0825	-0.1264	-0.3186	-0.4561
Cumulative	1.9837	1.9012	1.7748	1.4561	1.0000

N1: 2 common factors: ML

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Initial Factor Method: Maximum Likelihood

Factor Pattern

	FACTOR1	FACTOR2
X1	-0.08439	0.04949
X2	0.04025	0.21171
X3	1.00000	-0.00000
X4	-0.05759	-0.31413
X5	-0.03481	0.22282
X6	-0.06486	0.19591
X7	0.09624	0.19310
X8	-0.00718	0.27628
X9	-0.00263	-0.23050
X10	0.06036	0.16159

Variance explained by each factor

	FACTOR1	FACTOR2
Weighted	0.031786	0.456540
Unweighted	1.030441	0.426839

Final Communalities Estimates and Variable Weights

Total Communality: Weighted = 0.488326 Unweighted = 1.457280

	X1	X2	X3	X4	X5
Communalities	0.009570	0.046441	1.000000	0.101993	0.050862
Weight	1.009685	1.048610	.	1.113703	1.053590
	X6	X7	X8	X9	X10
Communalities	0.042587	0.046549	0.076381	0.053139	0.029756
Weight	1.044505	1.048786	1.082601	1.056203	1.030644

Residual Correlations With Uniqueness on the Diagonal

X1	X2	X3	X4	X5
----	----	----	----	----

X1	0.99043	0.02734	0.00000	-0.08897	-0.01528
X2	0.02734	0.95356	0.00000	0.08078	0.05598
X3	0.00000	0.00000	0.00000	0.00000	0.00000
X4	-0.08897	0.08078	0.00000	0.89801	-0.00782
X5	-0.01528	0.05598	0.00000	-0.00782	0.94914
X6	-0.01367	-0.04702	0.00000	-0.02099	0.01210
X7	-0.06342	-0.00574	0.00000	0.01419	-0.00668
X8	-0.03973	0.04636	0.00000	-0.00177	-0.02514
X9	-0.00384	0.00049	0.00000	0.03470	-0.00575
X10	-0.04213	0.06489	0.00000	-0.00731	-0.05645

N1: 2 common factors: ML

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Initial Factor Method: Maximum Likelihood

Residual Correlations With Uniqueness on the Diagonal

	X6	X7	X8	X9	X10
X1	-0.01367	-0.06342	-0.03973	-0.00384	-0.04213
X2	-0.04702	-0.00574	0.04636	0.00049	0.06489
X3	0.00000	0.00000	0.00000	0.00000	0.00000
X4	-0.02099	0.01419	-0.00177	0.03470	-0.00731
X5	0.01210	-0.00668	-0.02514	-0.00575	-0.05645
X6	0.95741	0.03828	0.00632	0.00008	-0.05219
X7	0.03828	0.95345	0.03727	-0.00842	-0.06034
X8	0.00632	0.03727	0.92362	0.07421	0.03739
X9	0.00008	-0.00842	0.07421	0.94686	-0.04153
X10	-0.05219	-0.06034	0.03739	-0.04153	0.97024

Root Mean Square Off-diagonal Residuals: Over-all = 0.03611822

X1	X2	X3	X4	X5
0.042785	0.045958	0.000000	0.042694	0.028811
X6	X7	X8	X9	X10
0.028311	0.034750	0.037561	0.030830	0.045599

Partial Correlations Controlling Factors

	X1	X2	X3	X4	X5
X1	1.00000	0.02813	0.00000	-0.09434	-0.01576
X2	0.02813	1.00000	0.00000	0.08729	0.05884
X3	0.00000	0.00000	0.00000	0.00000	0.00000
X4	-0.09434	0.08729	0.00000	1.00000	-0.00847
X5	-0.01576	0.05884	0.00000	-0.00847	1.00000
X6	-0.01404	-0.04921	0.00000	-0.02264	0.01269
X7	-0.06527	-0.00602	0.00000	0.01534	-0.00702
X8	-0.04154	0.04940	0.00000	-0.00194	-0.02685
X9	-0.00397	0.00052	0.00000	0.03763	-0.00607
X10	-0.04298	0.06747	0.00000	-0.00784	-0.05882
	X6	X7	X8	X9	X10
X1	-0.01404	-0.06527	-0.04154	-0.00397	-0.04298
X2	-0.04921	-0.00602	0.04940	0.00052	0.06747
X3	0.00000	0.00000	0.00000	0.00000	0.00000
X4	-0.02264	0.01534	-0.00194	0.03763	-0.00784
X5	0.01269	-0.00702	-0.02685	-0.00607	-0.05882
X6	1.00000	0.04007	0.00672	0.00009	-0.05415
X7	0.04007	1.00000	0.03972	-0.00886	-0.06273
X8	0.00672	0.03972	1.00000	0.07935	0.03950
X9	0.00009	-0.00886	0.07935	1.00000	-0.04333
X10	-0.05415	-0.06273	0.03950	-0.04333	1.00000

N1: 2 common factors: ML

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Initial Factor Method: Maximum Likelihood

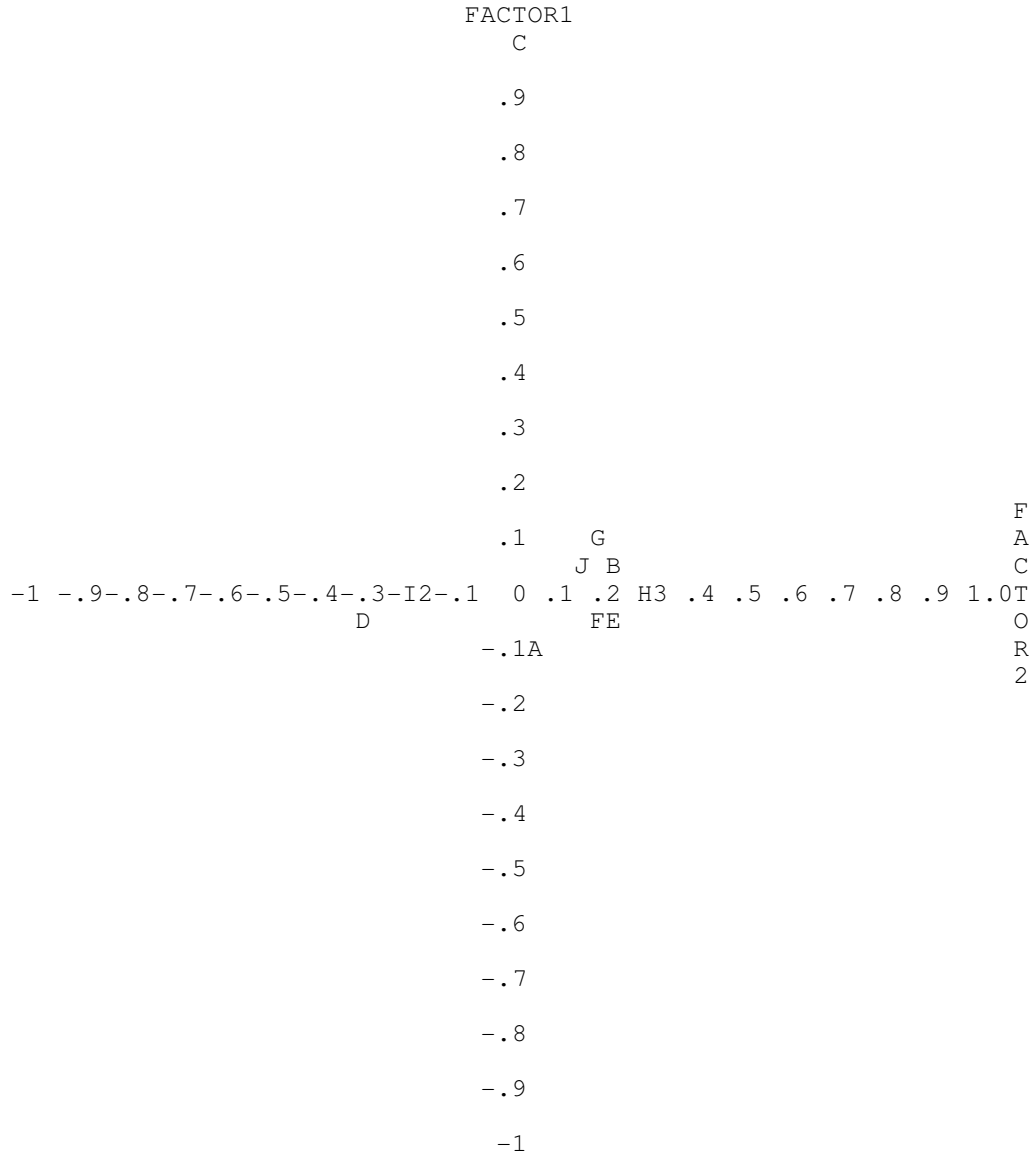
Root Mean Square Off-diagonal Partial: Over-all = 0.03805124

	X1	X2	X3	X4	X5
	0.044704	0.048674	0.000000	0.045730	0.030204
	X6	X7	X8	X9	X10
	0.029580	0.036175	0.039959	0.032866	0.047406

N1: 2 common factors: ML 340
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Initial Factor Method: Maximum Likelihood

Plot of Factor Pattern for FACTOR1 and FACTOR2



X1	=A	X2	=B	X3	=C	X4	=D	X5	=E
X6	=F	X7	=G	X8	=H	X9	=I	X10	=J

N1: 2 common factors: ML 341
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Rotation Method: Varimax

Orthogonal Transformation Matrix

	1	2
1	0.97799	0.20865
2	-0.20865	0.97799

Rotated Factor Pattern

	FACTOR1	FACTOR2
X1	-0.09286	0.03079
X2	-0.00481	0.21545
X3	0.97799	0.20865
X4	0.00922	-0.31923
X5	-0.08053	0.21066
X6	-0.10430	0.17807
X7	0.05384	0.20893
X8	-0.06467	0.26870
X9	0.04552	-0.22598
X10	0.02532	0.17063

Variance explained by each factor

	FACTOR1	FACTOR2
Weighted	0.037439	0.450887
Unweighted	0.992357	0.464923

Final Communalities Estimates and Variable Weights

Total Communality: Weighted = 0.488326 Unweighted = 1.457280

	X1	X2	X3	X4	X5
Communality	0.009570	0.046441	1.000000	0.101993	0.050862
Weight	1.009685	1.048610	.	1.113703	1.053590

	X6	X7	X8	X9	X10
Communality	0.042587	0.046549	0.076381	0.053139	0.029756
Weight	1.044505	1.048786	1.082601	1.056203	1.030644

Scoring Coefficients Estimated by Regression

Squared Multiple Correlations of the Variables with each Factor

	FACTOR1	FACTOR2
	0.970112	0.343330
N1: 2 common factors: ML		342
	09:13 Wednesday, March 24, 1999	

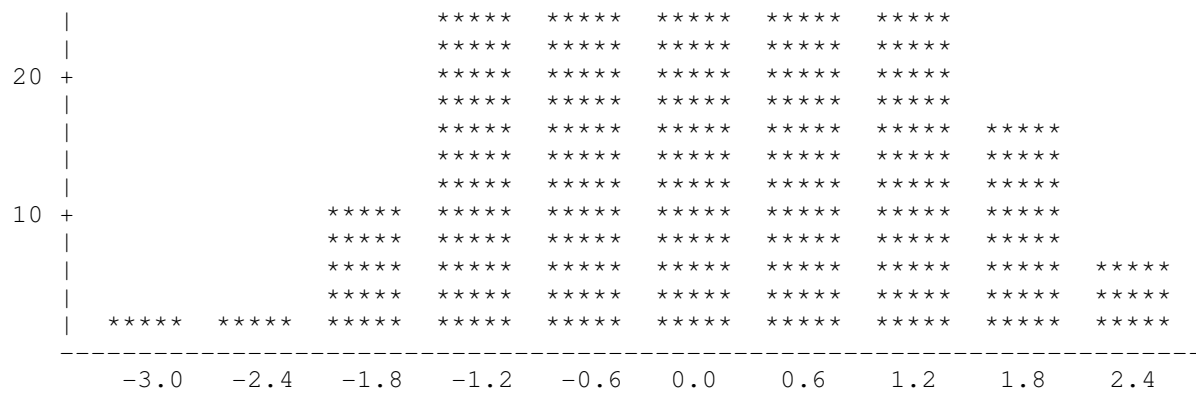
Rotation Method: Varimax

Standardized Scoring Coefficients

	FACTOR1	FACTOR2
X1	-0.00716	0.03355
X2	-0.03180	0.14906
X3	0.98250	0.18752
X4	0.05011	-0.23490
X5	-0.03363	0.15763
X6	-0.02931	0.13740
X7	-0.02901	0.13598
X8	-0.04285	0.20083
X9	0.03487	-0.16347
X10	-0.02386	0.11183

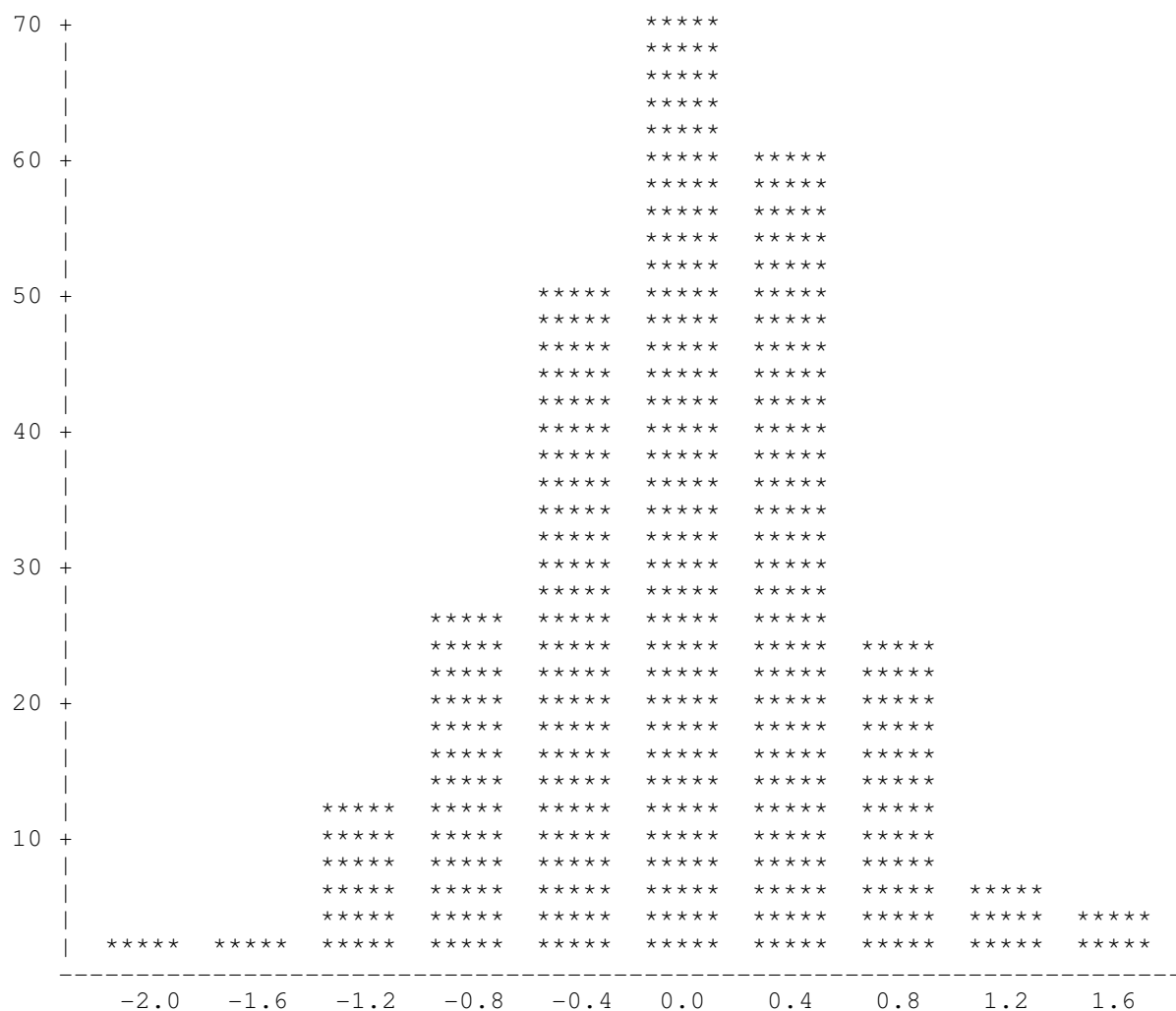
N1: 2 common factors: ML 343
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Rotation Method: Varimax



FACTOR1 Midpoint
 N1: 2 common factors: ML 345
 09:13 Wednesday, March 24, 1999

Frequency

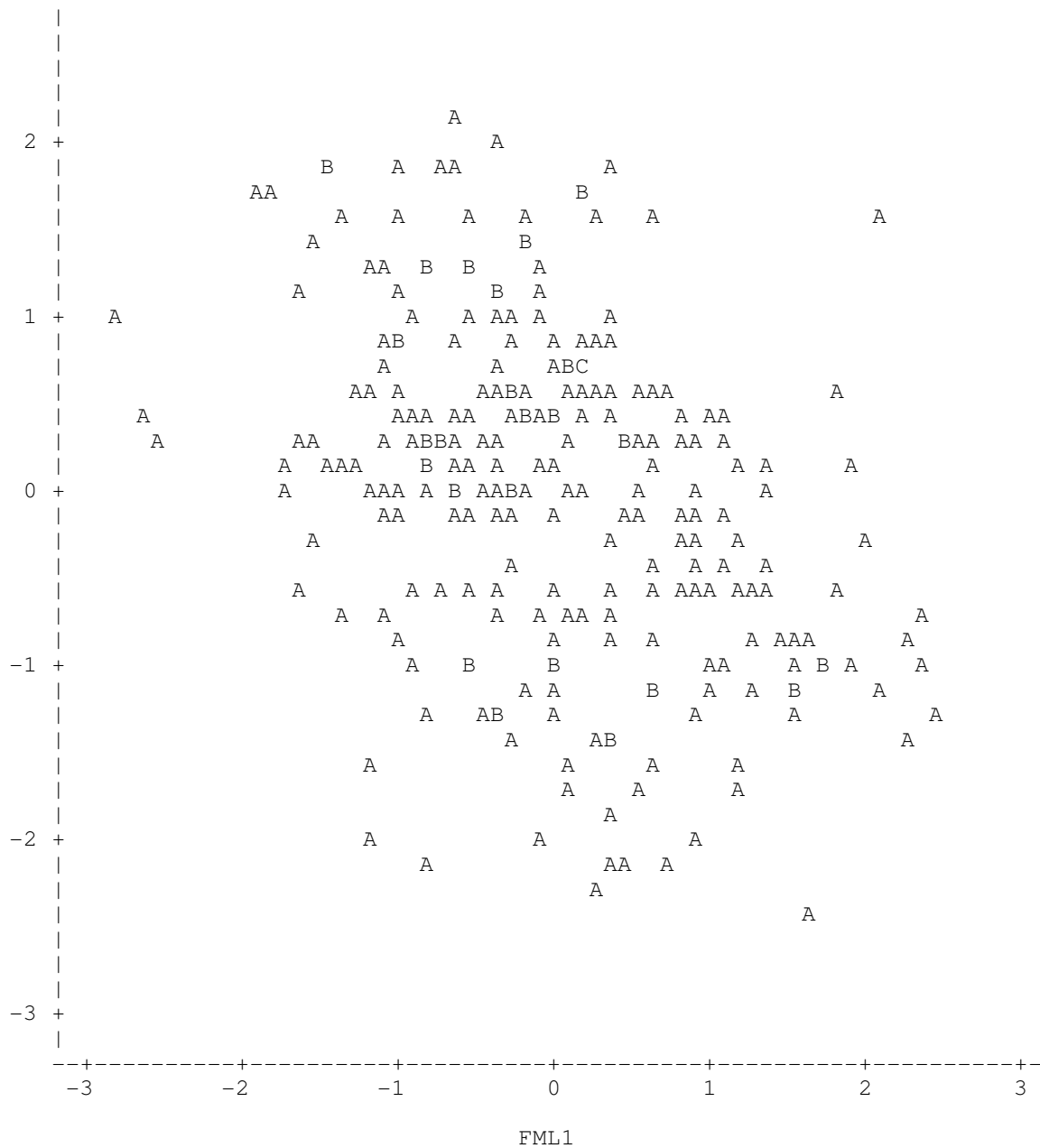


FACTOR2 Midpoint
 N1: Comparing factors by method 346
 09:13 Wednesday, March 24, 1999

Plot of FPCA1*FML1. Legend: A = 1 obs, B = 2 obs, etc.

FPCA1 |
 |
 3 +
 |

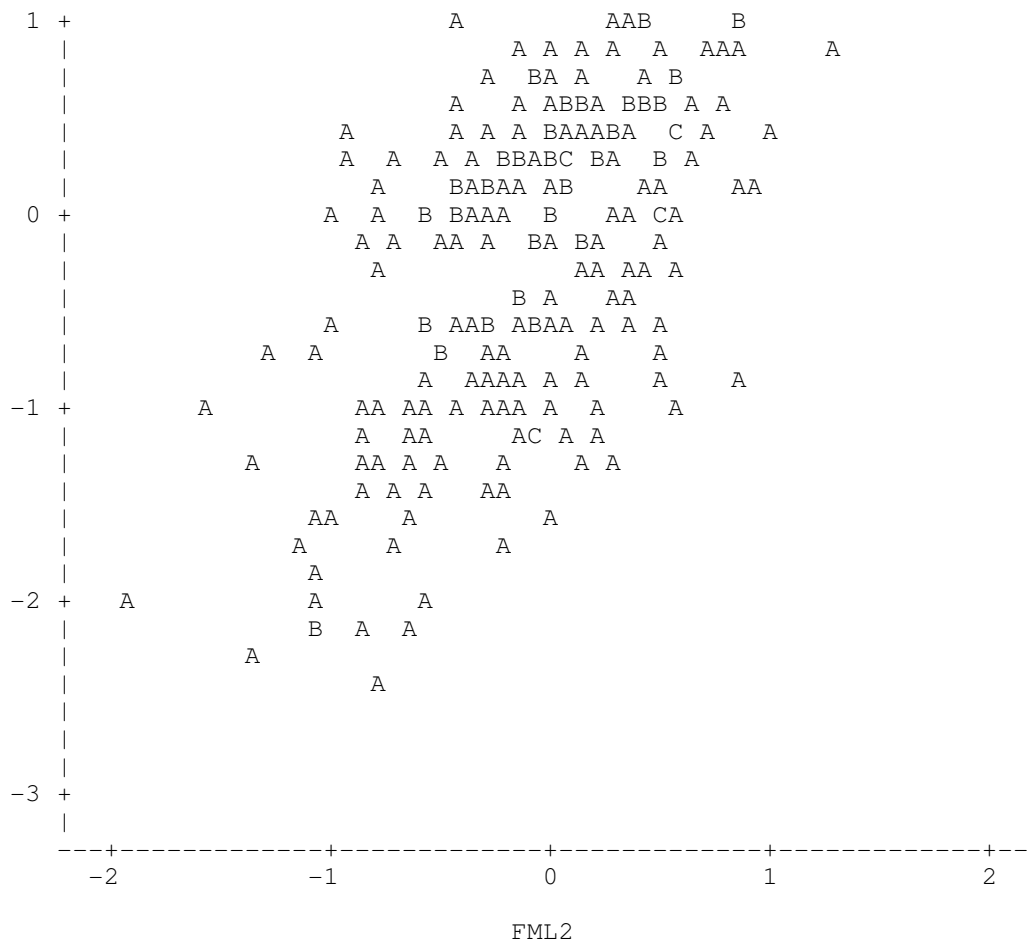
A



N1: Comparing factors by method 347
09:13 Wednesday, March 24, 1999

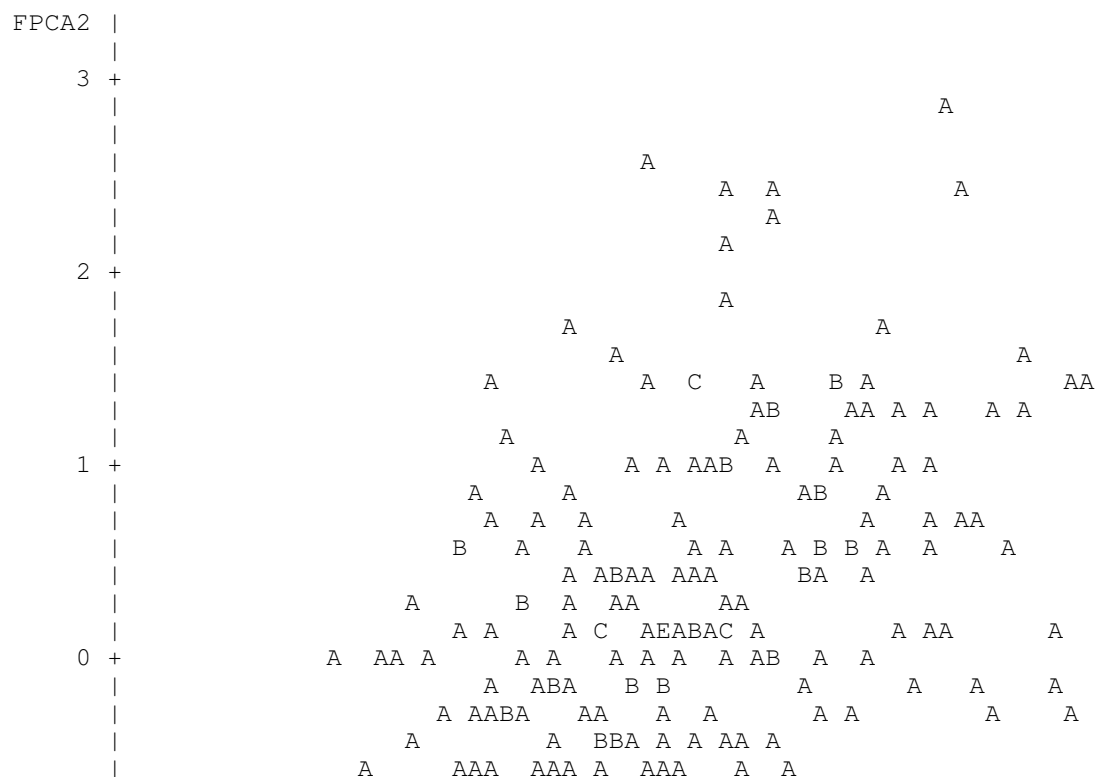
Plot of FPCA1*FML2. Legend: A = 1 obs, B = 2 obs, etc.

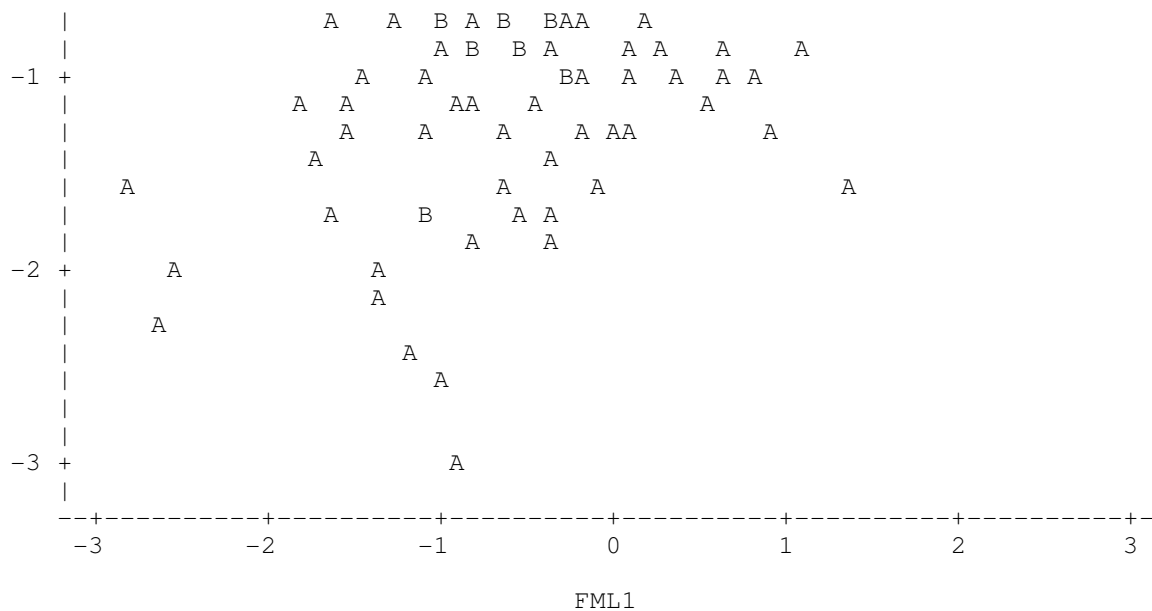




N1: Comparing factors by method 348
09:13 Wednesday, March 24, 1999

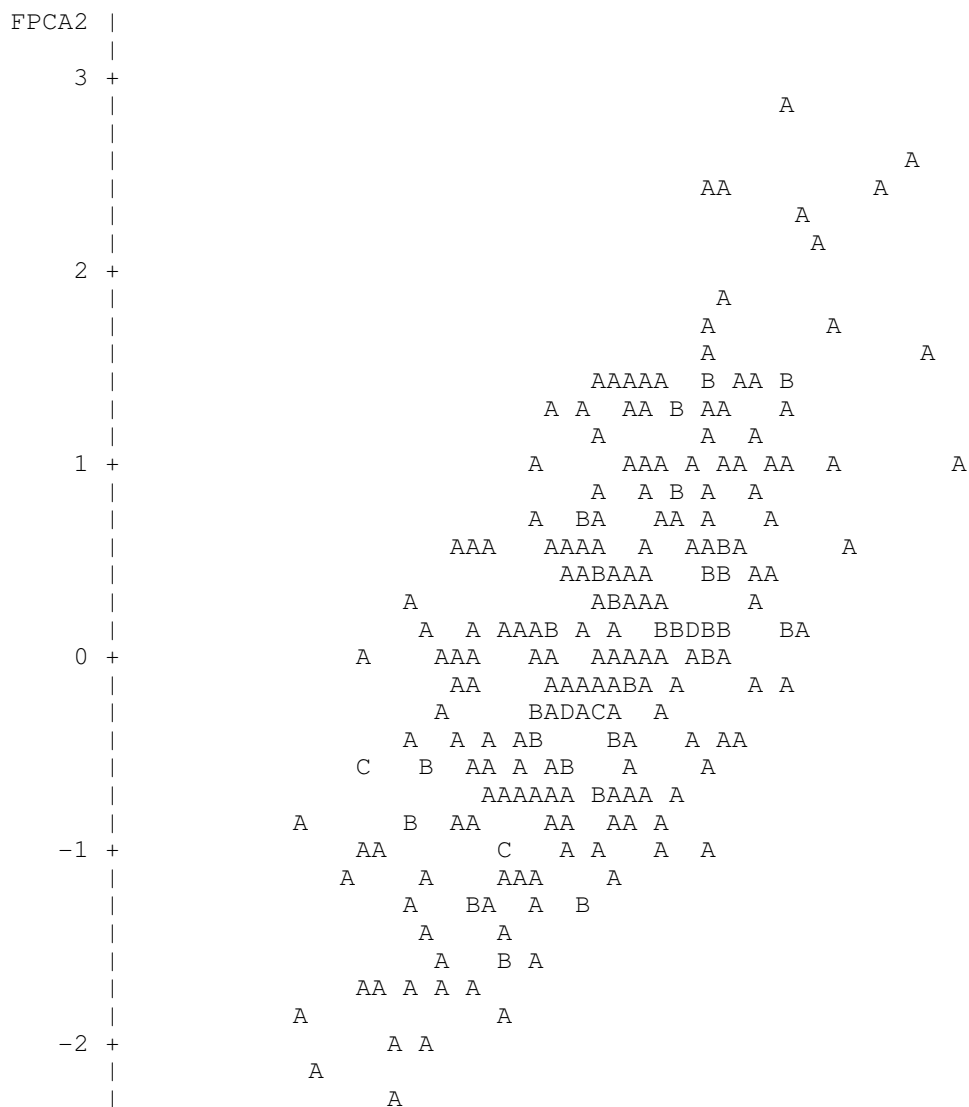
Plot of FPCA2*FML1. Legend: A = 1 obs, B = 2 obs, etc.

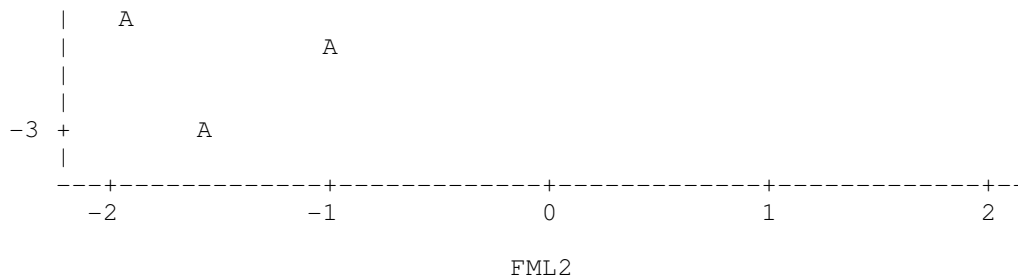




N1: Comparing factors by method 349
09:13 Wednesday, March 24, 1999

Plot of FPCA2*FML2. Legend: A = 1 obs, B = 2 obs, etc.





N2: 2 common factors: PCA 350
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Initial Factor Method: Principal Components

Partial Correlations Controlling all other Variables

	X1	X2	X3	X4	X5
X1	1.00000	0.76909	-0.02199	0.53242	-0.03024
X2	0.76909	1.00000	0.04186	0.04588	0.10369
X3	-0.02199	0.04186	1.00000	-0.06992	-0.04105
X4	0.53242	0.04588	-0.06992	1.00000	-0.07158
X5	-0.03024	0.10369	-0.04105	-0.07158	1.00000
X6	-0.19689	-0.01540	-0.07128	-0.06917	0.04510
X7	0.00524	0.02965	0.09605	-0.03611	0.02001
X8	-0.01916	0.09740	-0.02698	-0.08328	0.01767
X9	-0.03680	-0.03948	0.00962	0.09621	-0.04472
X10	-0.05557	0.09566	0.05092	-0.05673	-0.03900

	X6	X7	X8	X9	X10
X1	-0.19689	0.00524	-0.01916	-0.03680	-0.05557
X2	-0.01540	0.02965	0.09740	-0.03948	0.09566
X3	-0.07128	0.09605	-0.02698	0.00962	0.05092
X4	-0.06917	-0.03611	-0.08328	0.09621	-0.05673
X5	0.04510	0.02001	0.01767	-0.04472	-0.03900
X6	1.00000	0.06439	0.05045	-0.03508	-0.02740
X7	0.06439	1.00000	0.08221	-0.04906	-0.04525
X8	0.05045	0.08221	1.00000	0.03733	0.07355
X9	-0.03508	-0.04906	0.03733	1.00000	-0.07561
X10	-0.02740	-0.04525	0.07355	-0.07561	1.00000

Kaiser's Measure of Sampling Adequacy: Over-all MSA = 0.82711787

	X1	X2	X3	X4	X5
	0.741275	0.804052	0.588893	0.888261	0.270284

	X6	X7	X8	X9	X10
	0.972810	0.607433	0.394391	0.350586	0.406057

Prior Communality Estimates: ONE

Eigenvalues of the Correlation Matrix: Total = 10 Average = 1

	1	2	3	4	5
Eigenvalue	3.7323	1.1680	1.0679	1.0402	1.0119
Difference	2.5643	0.1001	0.0277	0.0283	0.1035
Proportion	0.3732	0.1168	0.1068	0.1040	0.1012
Cumulative	0.3732	0.4900	0.5968	0.7008	0.8020

	6	7	8	9	10
Eigenvalue	0.9084	0.7923	0.2149	0.0491	0.0151
Difference	0.1161	0.5774	0.1659	0.0339	
Proportion	0.0908	0.0792	0.0215	0.0049	0.0015

Cumulative	0.8929	0.9721	0.9936	0.9985	1.0000
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2 factors will be retained by the NFACTOR criterion.

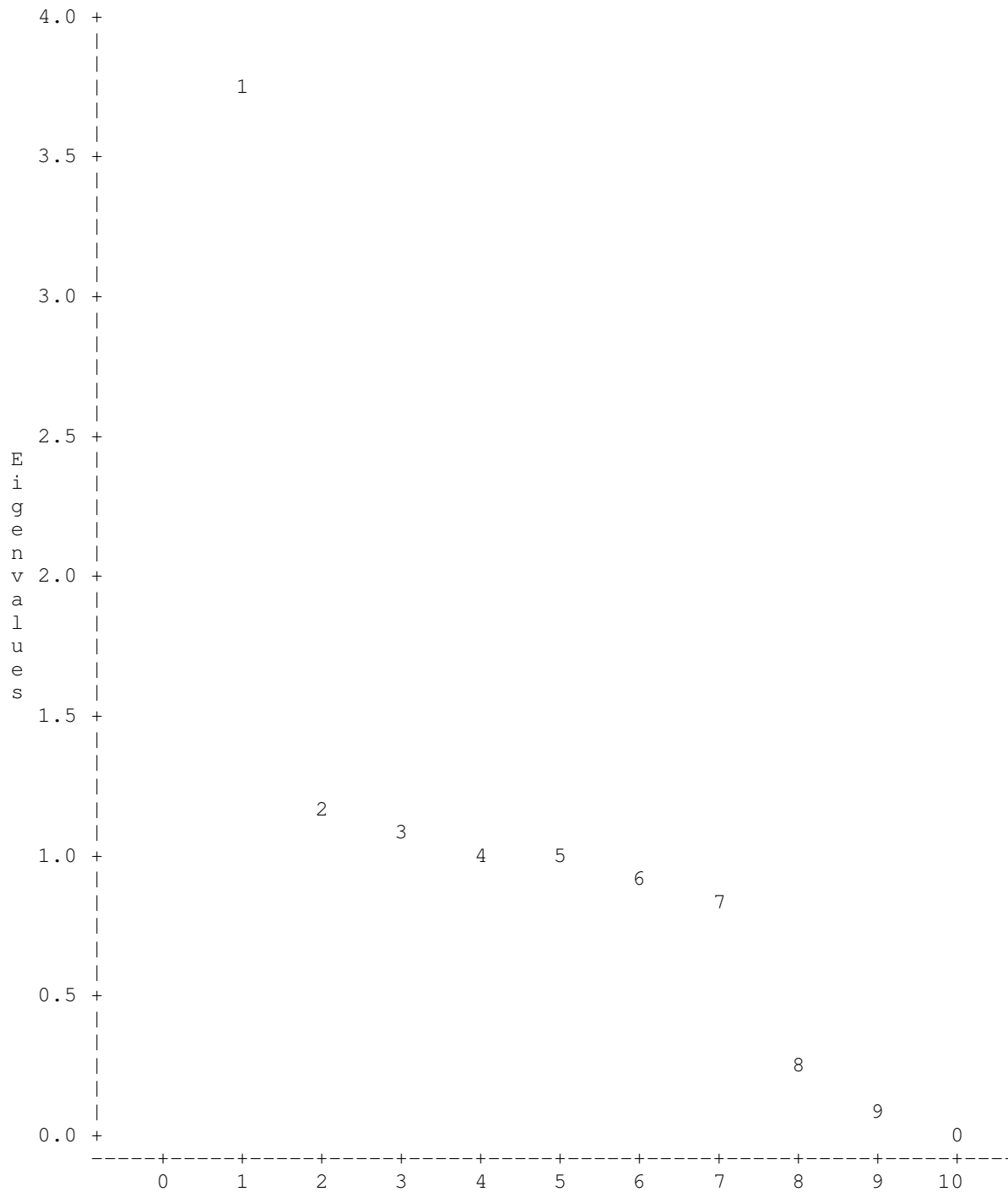
N2: 2 common factors: PCA

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Initial Factor Method: Principal Components

Scree Plot of Eigenvalues



N2: 2 common factors: PCA

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Initial Factor Method: Principal Components

Eigenvectors

	1	2
X1	0.51044	0.04570
X2	0.50566	0.07522
X3	-0.05659	0.31924
X4	0.50454	0.00430
X5	-0.00621	0.22938
X6	-0.47090	-0.01233
X7	-0.05333	0.50764
X8	-0.02622	0.47150
X9	-0.00117	-0.42525
X10	-0.02597	0.42035

Factor Pattern

	FACTOR1	FACTOR2
X1	0.98613	0.04939
X2	0.97689	0.08129
X3	-0.10932	0.34501
X4	0.97473	0.00465
X5	-0.01199	0.24790
X6	-0.90973	-0.01333
X7	-0.10302	0.54862
X8	-0.05066	0.50956
X9	-0.00226	-0.45958
X10	-0.05017	0.45429

Variance explained by each factor

FACTOR1	FACTOR2
3.732288	1.167954

Final Community Estimates: Total = 4.900242

X1	X2	X3	X4	X5
0.974892	0.960928	0.130982	0.950127	0.061598
X6	X7	X8	X9	X10
0.827792	0.311597	0.262220	0.211214	0.208892

N2: 2 common factors: PCA 353
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Initial Factor Method: Principal Components

Residual Correlations With Uniqueness on the Diagonal

	X1	X2	X3	X4	X5
X1	0.02511	0.01428	0.00637	0.00538	-0.00174
X2	0.01428	0.03907	0.00414	-0.00276	0.00970
X3	0.00637	0.00414	0.86902	0.00642	-0.12165
X4	0.00538	-0.00276	0.00642	0.04987	-0.01023
X5	-0.00174	0.00970	-0.12165	-0.01023	0.93840
X6	0.04684	0.05366	-0.05705	0.05350	0.02399
X7	0.01251	0.00305	-0.10430	0.02300	-0.10424
X8	-0.00067	0.00320	-0.18853	-0.00088	-0.09026
X9	0.00990	0.01567	0.15568	0.01696	0.05688
X10	-0.01220	-0.00679	-0.10186	-0.00795	-0.13576
	X6	X7	X8	X9	X10
X1	0.04684	0.01251	-0.00067	0.00990	-0.01220
X2	0.05366	0.00305	0.00320	0.01567	-0.00679
X3	-0.05705	-0.10430	-0.18853	0.15568	-0.10186
X4	0.05350	0.02300	-0.00088	0.01696	-0.00795

X5	0.02399	-0.10424	-0.09026	0.05688	-0.13576
X6	0.17221	0.00309	0.01439	-0.01897	-0.01901
X7	0.00309	0.68840	-0.19484	0.19872	-0.27772
X8	0.01439	-0.19484	0.73778	0.24461	-0.15243
X9	-0.01897	0.19872	0.24461	0.78879	0.12973
X10	-0.01901	-0.27772	-0.15243	0.12973	0.79111

Root Mean Square Off-diagonal Residuals: Over-all = 0.09496552

X1	X2	X3	X4	X5
0.017870	0.019759	0.104978	0.020885	0.079060
X6	X7	X8	X9	X10
0.037570	0.140251	0.135376	0.126762	0.127636

Partial Correlations Controlling Factors

	X1	X2	X3	X4	X5
X1	1.00000	0.45597	0.04315	0.15197	-0.01132
X2	0.45597	1.00000	0.02249	-0.06261	0.05064
X3	0.04315	0.02249	1.00000	0.03084	-0.13471
X4	0.15197	-0.06261	0.03084	1.00000	-0.04731
X5	-0.01132	0.05064	-0.13471	-0.04731	1.00000
X6	0.71234	0.65421	-0.14746	0.57732	0.05967
X7	0.09512	0.01857	-0.13485	0.12412	-0.12969
X8	-0.00493	0.01883	-0.23545	-0.00461	-0.10848
X9	0.07032	0.08926	0.18804	0.08550	0.06611
X10	-0.08654	-0.03865	-0.12284	-0.04001	-0.15756

N2: 2 common factors: PCA

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Initial Factor Method: Principal Components

Partial Correlations Controlling Factors

	X6	X7	X8	X9	X10
X1	0.71234	0.09512	-0.00493	0.07032	-0.08654
X2	0.65421	0.01857	0.01883	0.08926	-0.03865
X3	-0.14746	-0.13485	-0.23545	0.18804	-0.12284
X4	0.57732	0.12412	-0.00461	0.08550	-0.04001
X5	0.05967	-0.12969	-0.10848	0.06611	-0.15756
X6	1.00000	0.00897	0.04036	-0.05146	-0.05151
X7	0.00897	1.00000	-0.27340	0.26967	-0.37633
X8	0.04036	-0.27340	1.00000	0.32065	-0.19952
X9	-0.05146	0.26967	0.32065	1.00000	0.16422
X10	-0.05151	-0.37633	-0.19952	0.16422	1.00000

Root Mean Square Off-diagonal Partial: Over-all = 0.22404901

X1	X2	X3	X4	X5
0.290963	0.269371	0.136332	0.207589	0.096852
X6	X7	X8	X9	X10
0.380210	0.196916	0.178452	0.171630	0.170476

N2: 2 common factors: PCA

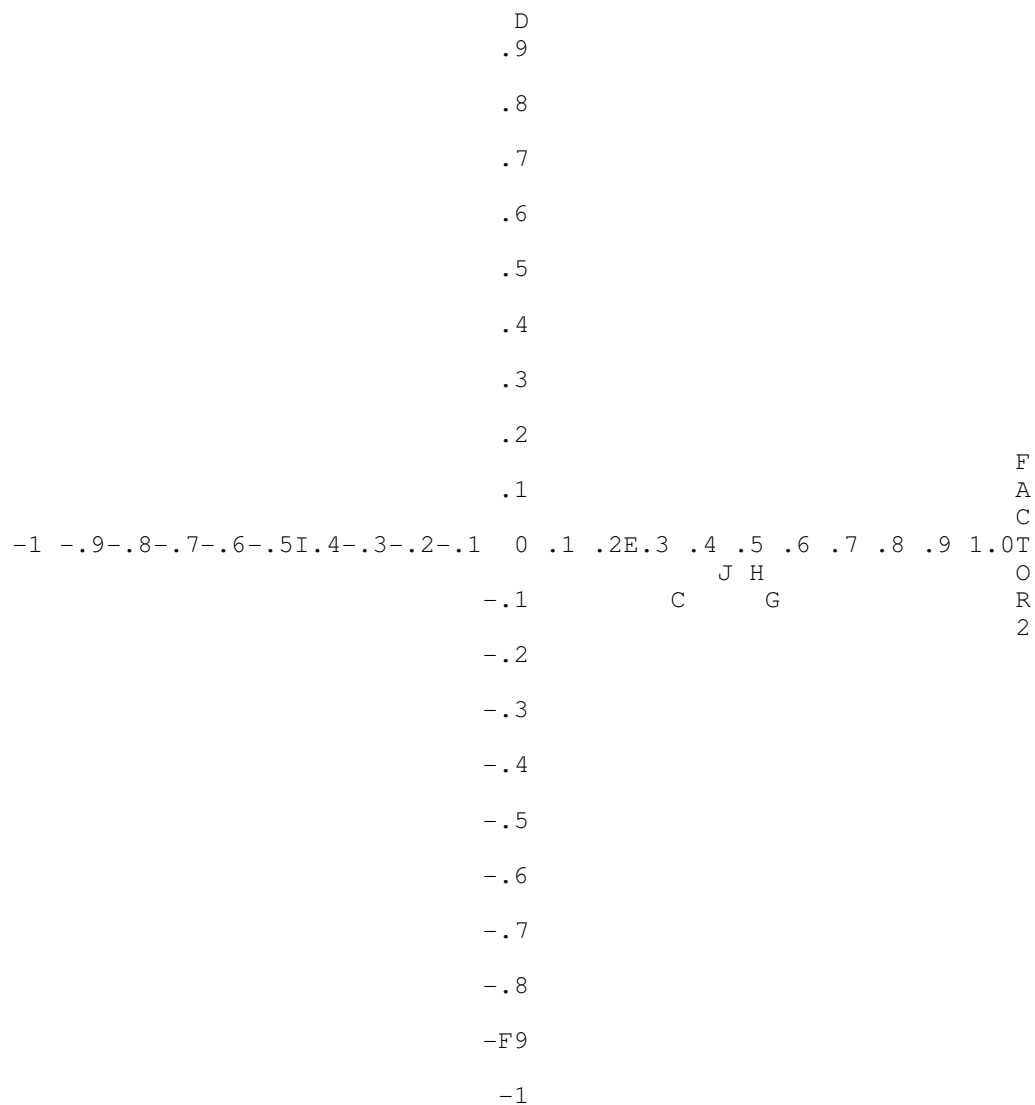
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Initial Factor Method: Principal Components

Plot of Factor Pattern for FACTOR1 and FACTOR2

FACTOR1
1AB



X1 =A X2 =B X3 =C X4 =D X5 =E
X6 =F X7 =G X8 =H X9 =I X10 =J

N2: 2 common factors: PCA 356
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Rotation Method: Varimax

Orthogonal Transformation Matrix

	1	2
1	0.99690	-0.07864
2	0.07864	0.99690

Rotated Factor Pattern

	FACTOR1	FACTOR2
X1	0.98696	-0.02831
X2	0.98026	0.00422
X3	-0.08185	0.35254
X4	0.97208	-0.07202
X5	0.00754	0.24808
X6	-0.90796	0.05825
X7	-0.05956	0.55502
X8	-0.01043	0.51197
X9	-0.03839	-0.45797
X10	-0.01429	0.45682

Variance explained by each factor

FACTOR1	FACTOR2
3.716430	1.183812

Final Communality Estimates: Total = 4.900242

X1	X2	X3	X4	X5
0.974892	0.960928	0.130982	0.950127	0.061598
X6	X7	X8	X9	X10
0.827792	0.311597	0.262220	0.211214	0.208892

Scoring Coefficients Estimated by Regression

Squared Multiple Correlations of the Variables with each Factor

FACTOR1	FACTOR2
1.000000	1.000000

N2: 2 common factors: PCA 357
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Rotation Method: Varimax

Standardized Scoring Coefficients

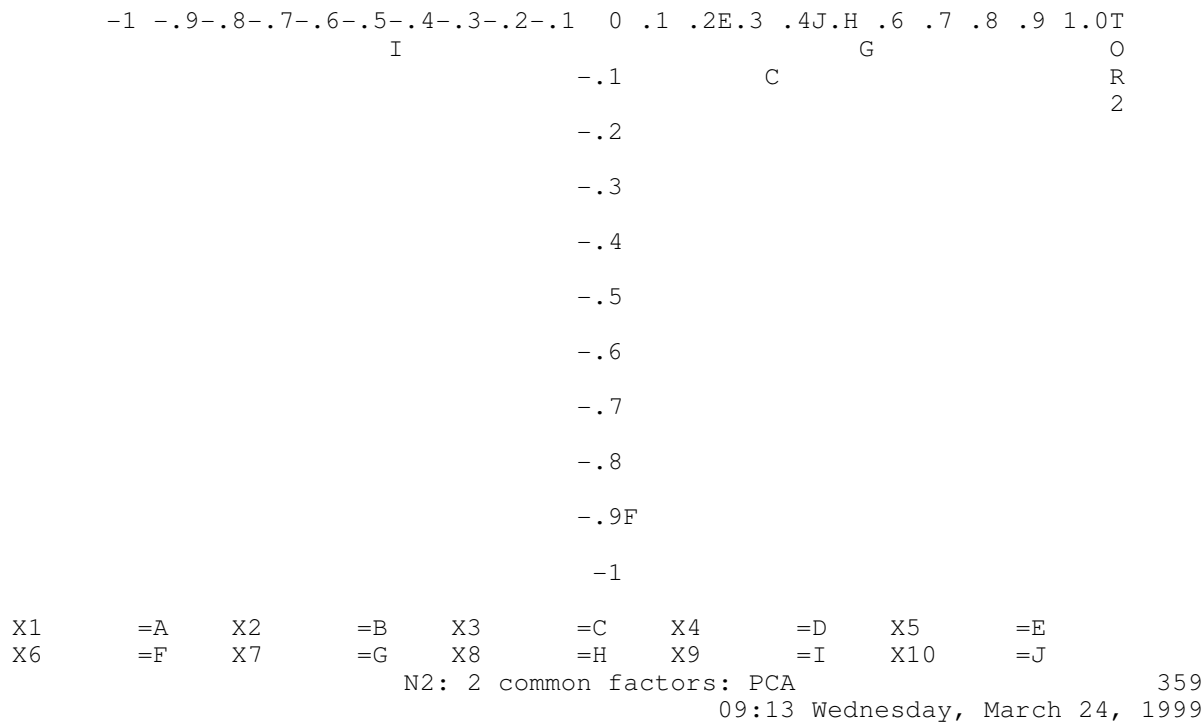
	FACTOR1	FACTOR2
X1	0.26672	0.02138
X2	0.26640	0.04880
X3	-0.00597	0.29678
X4	0.26067	-0.01657
X5	0.01349	0.21185
X6	-0.24389	0.00779
X7	0.00942	0.47044
X8	0.02078	0.43600
X9	-0.03155	-0.39222
X10	0.01719	0.38881

N2: 2 common factors: PCA 358
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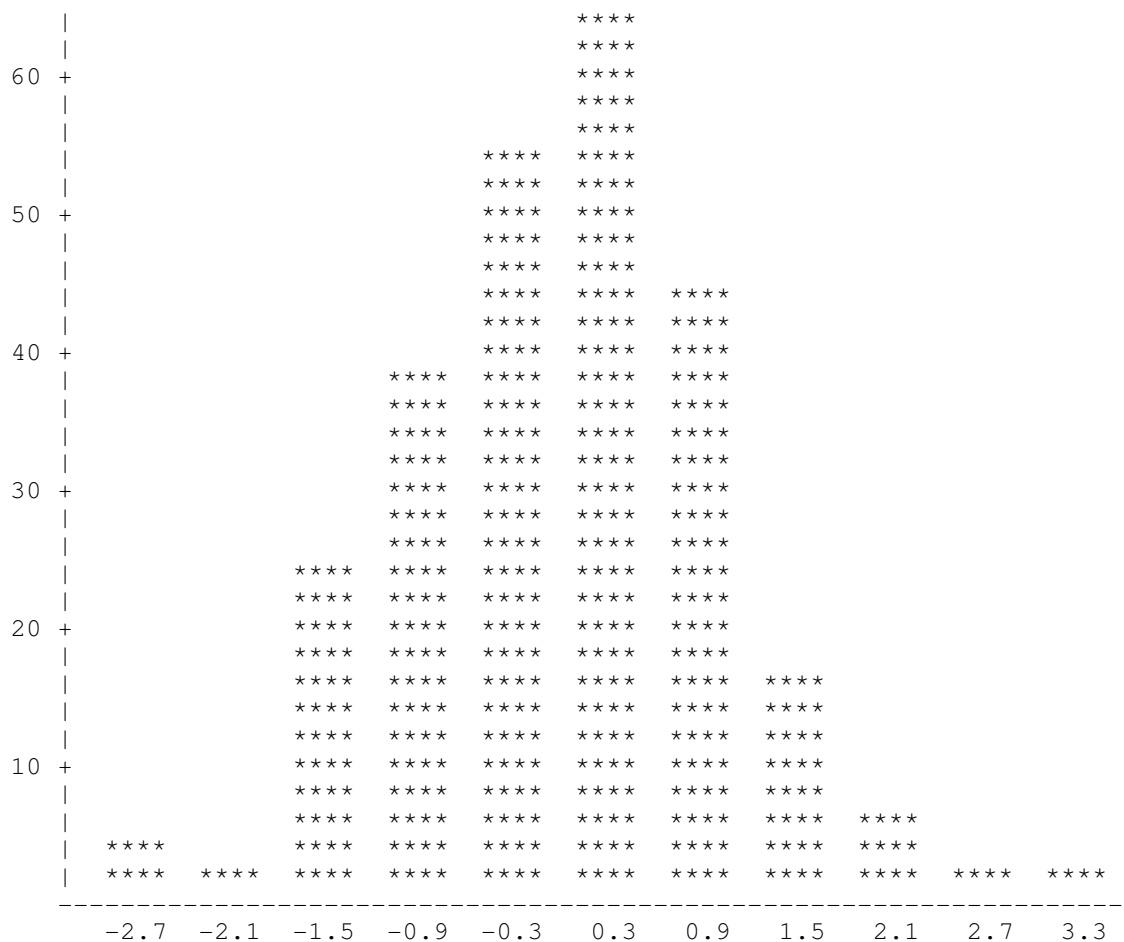
Rotation Method: Varimax

Plot of Factor Pattern for FACTOR1 and FACTOR2

FACTOR1	FACTOR2
AB	
D	
.9	
.8	
.7	
.6	
.5	
.4	
.3	
.2	
.1	F A C

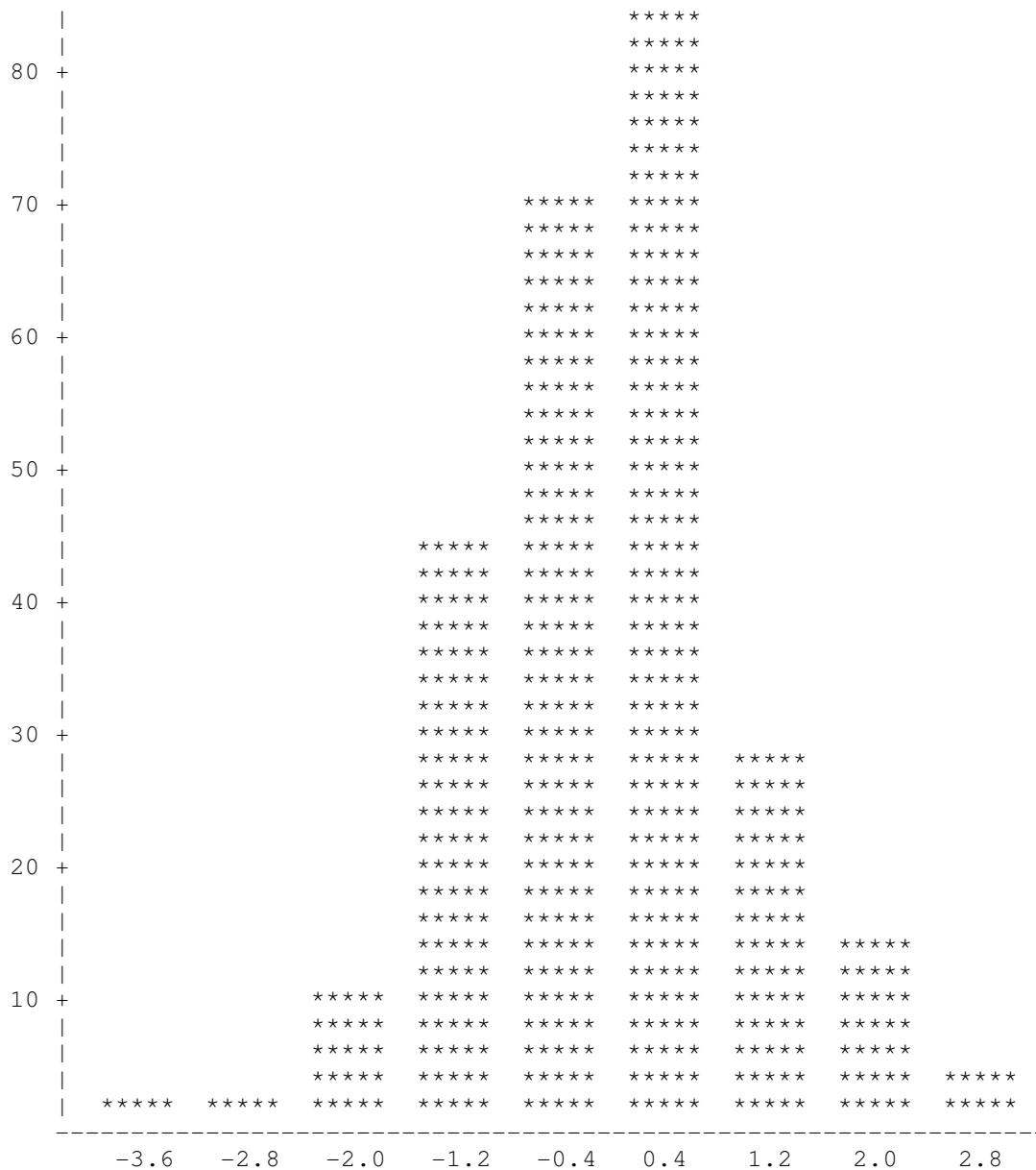


Frequency



FACTOR1 Midpoint
N2: 2 common factors: PCA 360
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Frequency



FACTOR2 Midpoint
 N2: 2 common factors: ML 361
 09:13 Wednesday, March 24, 1999

Initial Factor Method: Maximum Likelihood

Partial Correlations Controlling all other Variables

	X1	X2	X3	X4	X5
X1	1.00000	0.76909	-0.02199	0.53242	-0.03024
X2	0.76909	1.00000	0.04186	0.04588	0.10369
X3	-0.02199	0.04186	1.00000	-0.06992	-0.04105
X4	0.53242	0.04588	-0.06992	1.00000	-0.07158
X5	-0.03024	0.10369	-0.04105	-0.07158	1.00000
X6	-0.19689	-0.01540	-0.07128	-0.06917	0.04510
X7	0.00524	0.02965	0.09605	-0.03611	0.02001
X8	-0.01916	0.09740	-0.02698	-0.08328	0.01767
X9	-0.03680	-0.03948	0.00962	0.09621	-0.04472
X10	-0.05557	0.09566	0.05092	-0.05673	-0.03900
	X6	X7	X8	X9	X10

X1	-0.19689	0.00524	-0.01916	-0.03680	-0.05557
X2	-0.01540	0.02965	0.09740	-0.03948	0.09566
X3	-0.07128	0.09605	-0.02698	0.00962	0.05092
X4	-0.06917	-0.03611	-0.08328	0.09621	-0.05673
X5	0.04510	0.02001	0.01767	-0.04472	-0.03900
X6	1.00000	0.06439	0.05045	-0.03508	-0.02740
X7	0.06439	1.00000	0.08221	-0.04906	-0.04525
X8	0.05045	0.08221	1.00000	0.03733	0.07355
X9	-0.03508	-0.04906	0.03733	1.00000	-0.07561
X10	-0.02740	-0.04525	0.07355	-0.07561	1.00000

Kaiser's Measure of Sampling Adequacy: Over-all MSA = 0.82711787

X1	X2	X3	X4	X5
0.741275	0.804052	0.588893	0.888261	0.270284
X6	X7	X8	X9	X10
0.972810	0.607433	0.394391	0.350586	0.406057

Prior Communality Estimates: SMC

X1	X2	X3	X4	X5
0.976820	0.964939	0.031480	0.937335	0.024931
X6	X7	X8	X9	X10
0.730369	0.032153	0.036022	0.025594	0.032692

Preliminary Eigenvalues: Total = 87.5173452 Average = 8.75173452

	1	2	3	4	5
Eigenvalue	87.7943	0.4227	0.1588	0.0816	0.0490
Difference	87.3715	0.2639	0.0772	0.0326	0.0740
Proportion	1.0032	0.0048	0.0018	0.0009	0.0006
Cumulative	1.0032	1.0080	1.0098	1.0107	1.0113

N2: 2 common factors: ML 362
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Initial Factor Method: Maximum Likelihood

	6	7	8	9	10
Eigenvalue	-0.0250	-0.1097	-0.1596	-0.2104	-0.4845
Difference	0.0848	0.0498	0.0509	0.2741	
Proportion	-0.0003	-0.0013	-0.0018	-0.0024	-0.0055
Cumulative	1.0110	1.0098	1.0079	1.0055	1.0000

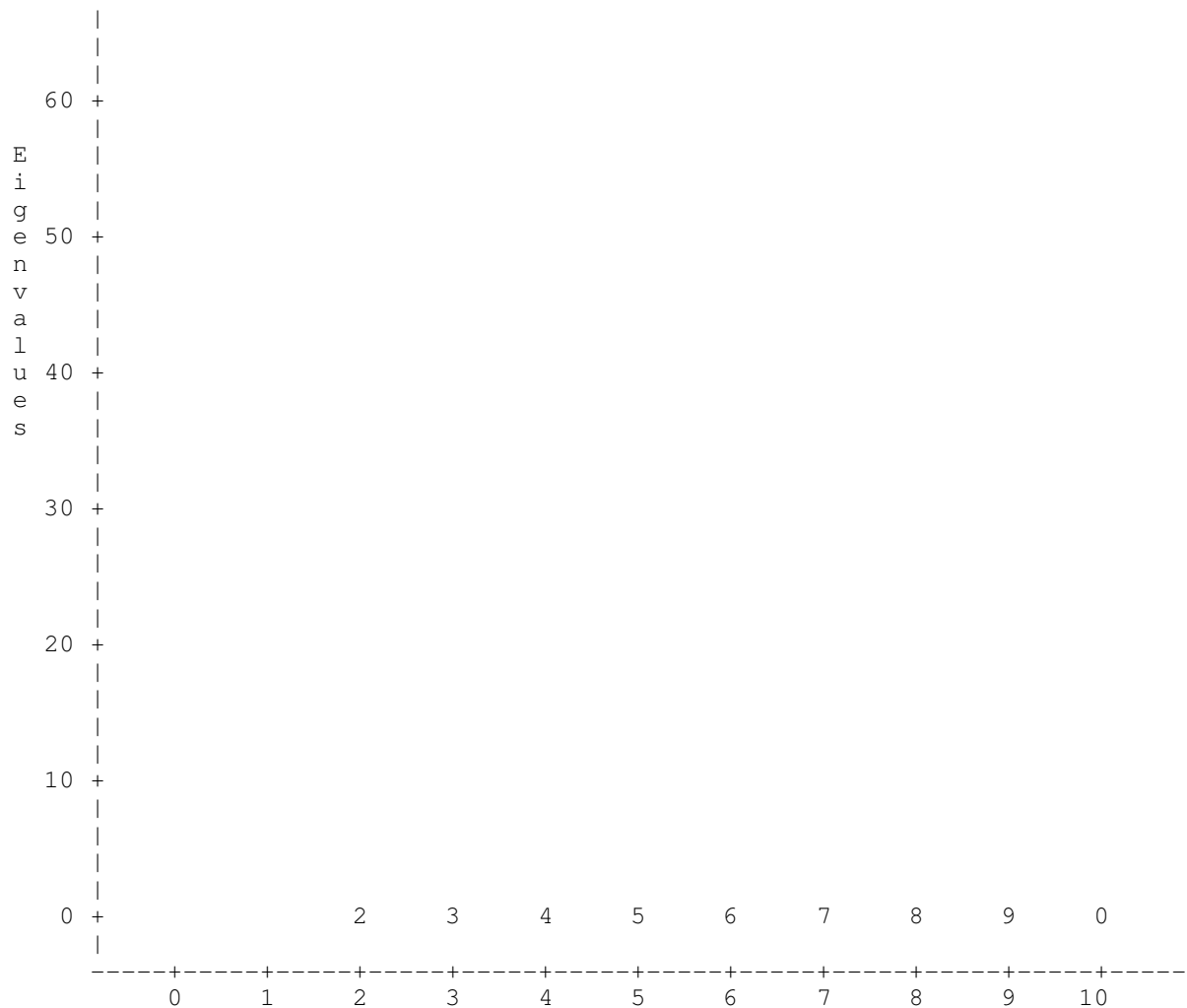
2 factors will be retained by the NFACTOR criterion.

N2: 2 common factors: ML 363
09:13 Wednesday, March 24, 1999

Initial Factor Method: Maximum Likelihood

Scree Plot of Eigenvalues

The scree plot shows the eigenvalues of the factors. The first factor has a very high eigenvalue (approximately 87.8), while the subsequent factors have much lower eigenvalues (starting around 0.4). The plot visually confirms that the first two factors account for nearly all the variance in the data.



Number
 N2: 2 common factors: ML 364
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Initial Factor Method: Maximum Likelihood

Iter	Criterion	Ridge	Change	Communalities					
1	0.05143	0.000	0.03002	0.99271	0.97555	0.01528	0.94985	0.03164	
				0.73430	0.04407	0.06604	0.04096	0.03153	
2	0.05105	0.000	0.00894	0.99200	0.97713	0.01785	0.95134	0.03878	
				0.73423	0.03513	0.06538	0.03910	0.03935	
3	0.05105	0.000	0.00148	0.99191	0.97736	0.01809	0.95144	0.03949	
				0.73403	0.03365	0.06513	0.03874	0.04020	
4	0.05105	0.000	0.00020	0.99189	0.97739	0.01810	0.95144	0.03959	
				0.73401	0.03345	0.06510	0.03863	0.04032	

Convergence criterion satisfied.

Significance tests based on 250 observations:

Test of H0: No common factors.
 vs HA: At least one common factor.

Chi-square = 1832.121 df = 45 Prob>chi**2 = 0.0001

Test of H0: 2 Factors are sufficient.

vs HA: More factors are needed.

Chi-square = 12.430 df = 26 Prob>chi**2 = 0.9885

Chi-square without Bartlett's correction = 12.710783587

Akaike's Information Criterion = -39.28921641

Schwarz's Bayesian Criterion = -130.8472003

Tucker and Lewis's Reliability Coefficient = 1.0131420898

Squared Canonical Correlations

FACTOR1	FACTOR2
0.994695	0.407269

Eigenvectors

	1	2
X1	0.99857	-0.00982
X2	0.04467	0.62731
X3	-0.00174	0.13760
X4	0.02787	-0.58490
X5	-0.00045	0.20808
X6	-0.00893	0.16316
X7	-0.00034	0.18397
X8	-0.00015	0.25601
X9	-0.00006	-0.20173
X10	-0.00020	0.18802

N2: 2 common factors: ML 365
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Initial Factor Method: Maximum Likelihood

Eigenvalues of the Weighted Reduced Correlation Matrix:

Total = 188.188962 Average = 18.8188962

	1	2	3	4	5
Eigenvalue	187.5019	0.6871	0.1696	0.0940	0.0883
Difference	186.8148	0.5175	0.0756	0.0057	0.0600
Proportion	0.9963	0.0037	0.0009	0.0005	0.0005
Cumulative	0.9963	1.0000	1.0009	1.0014	1.0019

	6	7	8	9	10
Eigenvalue	0.0283	-0.0086	-0.0632	-0.1245	-0.1838
Difference	0.0369	0.0546	0.0613	0.0594	
Proportion	0.0002	-0.0000	-0.0003	-0.0007	-0.0010
Cumulative	1.0020	1.0020	1.0016	1.0010	1.0000

Factor Pattern

	FACTOR1	FACTOR2
X1	0.99592	-0.00627
X2	0.98613	0.07021
X3	-0.08385	0.10523
X4	0.97016	-0.10111
X5	0.00061	0.19901
X6	-0.85347	0.07480
X7	-0.06251	0.17181
X8	-0.02389	0.25404
X9	-0.01384	-0.19602
X10	-0.03631	0.19753

Variance explained by each factor

	FACTOR1	FACTOR2
Weighted	187.50186	0.687106
Unweighted	3.646960	0.242963

Final Communalities Estimates and Variable Weights
 Total Communality: Weighted = 188.18896 Unweighted = 3.889923

	X1	X2	X3	X4	X5
Communality	0.991894	0.977386	0.018104	0.951444	0.039607
Weight	123.36976	44.218885	1.018436	20.594738	1.041226

	X6	X7	X8	X9	X10
Communality	0.734003	0.033428	0.065106	0.038616	0.040336
Weight	3.759480	1.034606	1.069635	1.040179	1.042016

N2: 2 common factors: ML

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Initial Factor Method: Maximum Likelihood

Residual Correlations With Uniqueness on the Diagonal

	X1	X2	X3	X4	X5
X1	0.00811	-0.00003	-0.00022	-0.00002	-0.00068
X2	-0.00003	0.02261	0.00069	0.00021	0.00356
X3	-0.00022	0.00069	0.98190	-0.00655	-0.05570
X4	-0.00002	0.00021	-0.00655	0.04856	-0.00124
X5	-0.00068	0.00356	-0.05570	-0.00124	0.96039
X6	-0.00048	0.00025	-0.04162	0.00226	0.01723
X7	0.00135	-0.00341	0.07292	0.00315	-0.00116
X8	-0.00007	0.00086	-0.03592	0.00097	-0.01387
X9	-0.00247	0.00352	0.01684	0.00623	-0.01800
X10	-0.00183	0.00307	0.03653	0.00047	-0.06183

	X6	X7	X8	X9	X10
X1	-0.00048	0.00135	-0.00007	-0.00247	-0.00183
X2	0.00025	-0.00341	0.00086	0.00352	0.00307
X3	-0.04162	0.07292	-0.03592	0.01684	0.03653
X4	0.00226	0.00315	0.00097	0.00623	0.00047
X5	0.01723	-0.00116	-0.01387	-0.01800	-0.06183
X6	0.26600	0.02329	0.01429	-0.00794	-0.02520
X7	0.02329	0.96657	0.04479	-0.02037	-0.05953
X8	0.01429	0.04479	0.93489	0.06001	0.03056
X9	-0.00794	-0.02037	0.06001	0.96138	-0.04072
X10	-0.02520	-0.05953	0.03056	-0.04072	0.95966

Root Mean Square Off-diagonal Residuals: Over-all = 0.02644068

	X1	X2	X3	X4	X5
	0.001154	0.002296	0.038158	0.003325	0.029353

	X6	X7	X8	X9	X10
	0.019662	0.036286	0.030239	0.026671	0.036425

Partial Correlations Controlling Factors

	X1	X2	X3	X4	X5
X1	1.00000	-0.00205	-0.00251	-0.00092	-0.00767
X2	-0.00205	1.00000	0.00465	0.00641	0.02417
X3	-0.00251	0.00465	1.00000	-0.02998	-0.05736
X4	-0.00092	0.00641	-0.02998	1.00000	-0.00573
X5	-0.00767	0.02417	-0.05736	-0.00573	1.00000
X6	-0.01031	0.00321	-0.08145	0.01990	0.03408
X7	0.01521	-0.02309	0.07485	0.01454	-0.00120
X8	-0.00084	0.00588	-0.03749	0.00455	-0.01464
X9	-0.02797	0.02387	0.01733	0.02885	-0.01873
X10	-0.02071	0.02083	0.03763	0.00217	-0.06440

N2: 2 common factors: ML

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Initial Factor Method: Maximum Likelihood

Partial Correlations Controlling Factors

	X6	X7	X8	X9	X10
X1	-0.01031	0.01521	-0.00084	-0.02797	-0.02071
X2	0.00321	-0.02309	0.00588	0.02387	0.02083
X3	-0.08145	0.07485	-0.03749	0.01733	0.03763
X4	0.01990	0.01454	0.00455	0.02885	0.00217
X5	0.03408	-0.00120	-0.01464	-0.01873	-0.06440
X6	1.00000	0.04594	0.02865	-0.01570	-0.04987
X7	0.04594	1.00000	0.04712	-0.02113	-0.06181
X8	0.02865	0.04712	1.00000	0.06330	0.03226
X9	-0.01570	-0.02113	0.06330	1.00000	-0.04239
X10	-0.04987	-0.06181	0.03226	-0.04239	1.00000

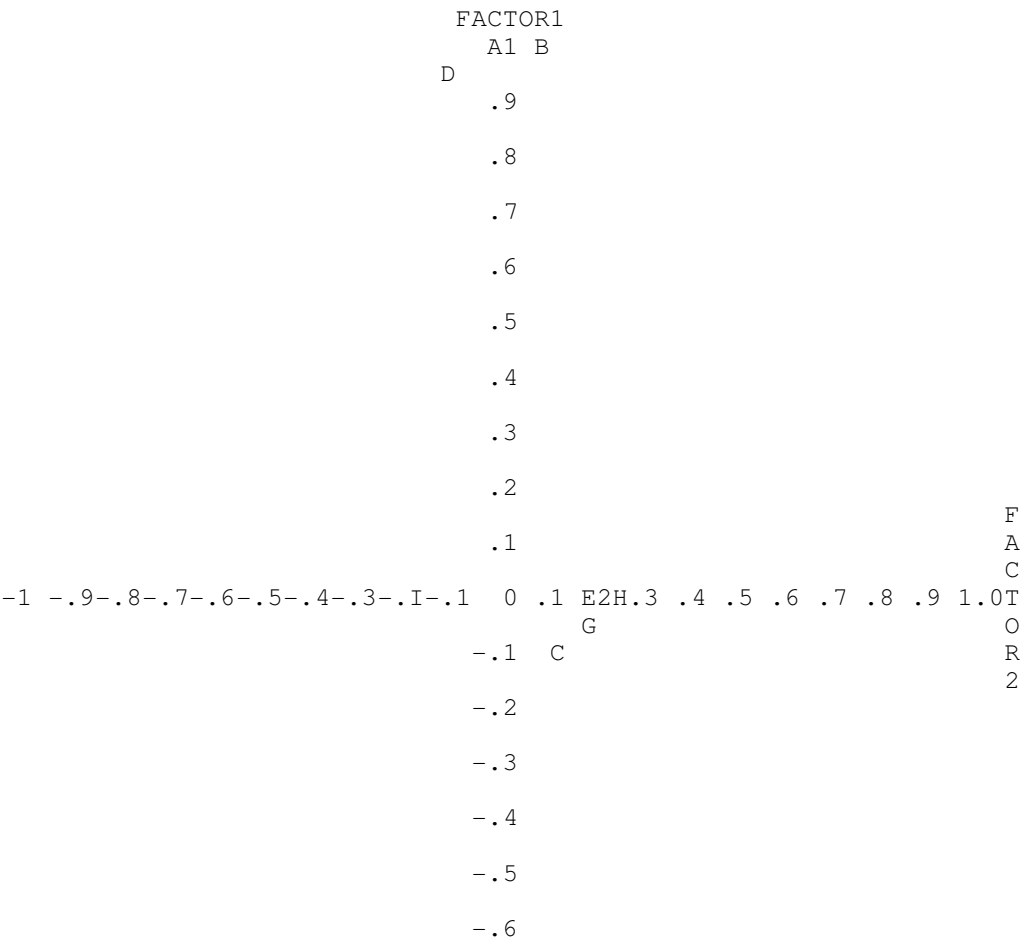
Root Mean Square Off-diagonal Partial: Over-all = 0.03325567

X1	X2	X3	X4	X5
0.013417	0.015751	0.046638	0.016463	0.033069
X6	X7	X8	X9	X10
0.039402	0.041066	0.032938	0.032202	0.041603

N2: 2 common factors: ML 368
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Initial Factor Method: Maximum Likelihood

Plot of Factor Pattern for FACTOR1 and FACTOR2



-.7

-.8

-.9 F

-1

X1	=A	X2	=B	X3	=C	X4	=D	X5	=E
X6	=F	X7	=G	X8	=H	X9	=I	X10	=G

N2: 2 common factors: ML

369

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Rotation Method: Varimax

Orthogonal Transformation Matrix

	1	2
1	0.99907	-0.04301
2	0.04301	0.99907

Rotated Factor Pattern

	FACTOR1	FACTOR2
X1	0.99473	-0.04910
X2	0.98824	0.02773
X3	-0.07924	0.10874
X4	0.96492	-0.14275
X5	0.00917	0.19880
X6	-0.84946	0.11144
X7	-0.05507	0.17434
X8	-0.01294	0.25483
X9	-0.02226	-0.19524
X10	-0.02778	0.19891

Variance explained by each factor

	FACTOR1	FACTOR2
Weighted	187.15624	1.032722
Unweighted	3.629583	0.260340

Final Communalities Estimates and Variable Weights

Total Communality: Weighted = 188.18896 Unweighted = 3.889923

	X1	X2	X3	X4	X5
Communality	0.991894	0.977386	0.018104	0.951444	0.039607
Weight	123.36976	44.218885	1.018436	20.594738	1.041226
	X6	X7	X8	X9	X10
Communality	0.734003	0.033428	0.065106	0.038616	0.040336
Weight	3.759480	1.034606	1.069635	1.040179	1.042016

Scoring Coefficients Estimated by Regression

Squared Multiple Correlations of the Variables with each Factor

	FACTOR1	FACTOR2
	0.993608	0.408356
N2: 2 common factors: ML		370
	09:13 Wednesday, March 24, 1999	

Rotation Method: Varimax

Standardized Scoring Coefficients

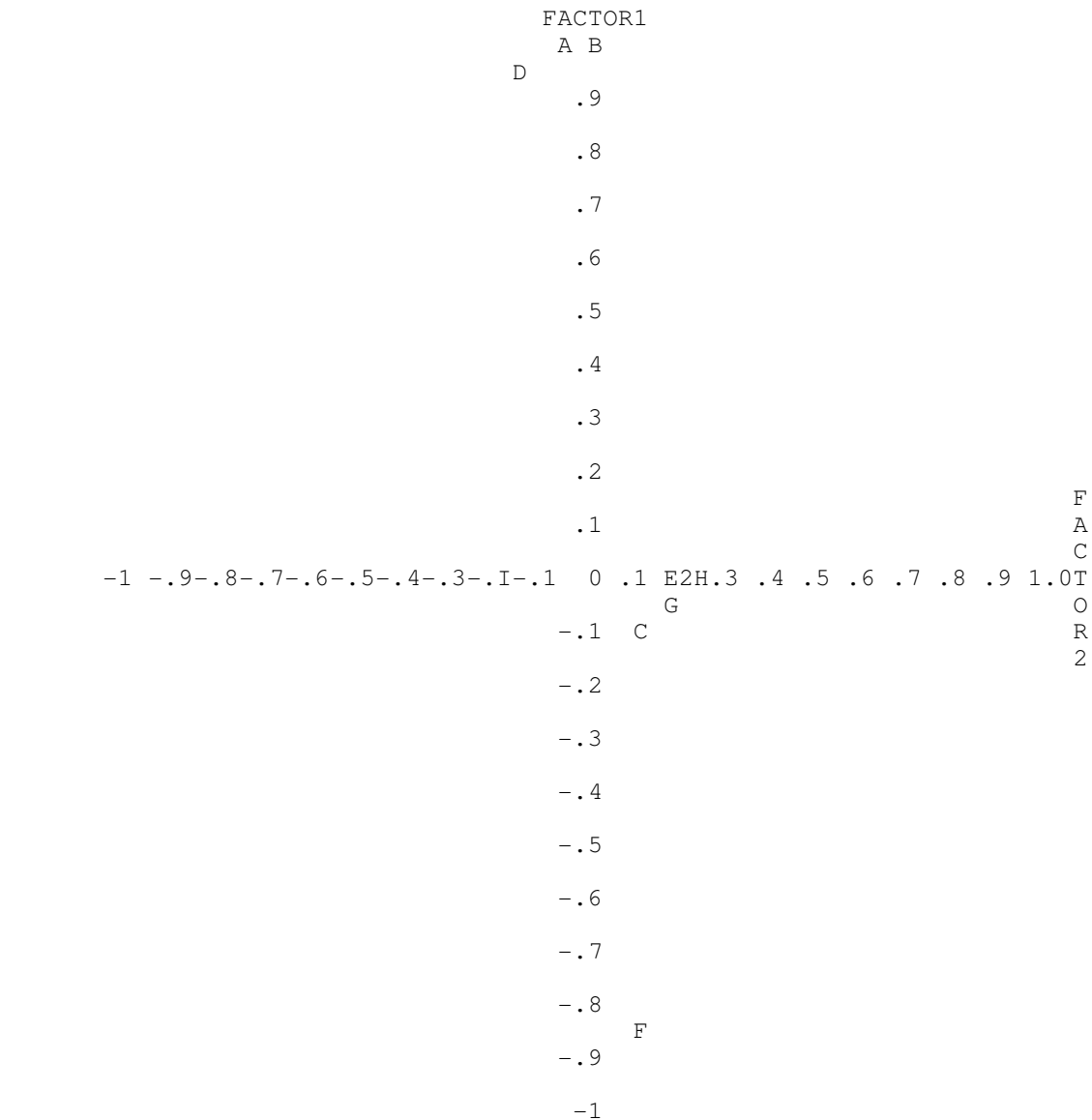
FACTOR1	FACTOR2
---------	---------

X1	0.63149	-0.48594
X2	0.31026	1.82849
X3	0.00228	0.06348
X4	0.05281	-1.23771
X5	0.00529	0.12271
X6	-0.00984	0.16726
X7	0.00419	0.10528
X8	0.00679	0.16092
X9	-0.00527	-0.12074
X10	0.00505	0.12190

N2: 2 common factors: ML 371
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Rotation Method: Varimax

Plot of Factor Pattern for FACTOR1 and FACTOR2

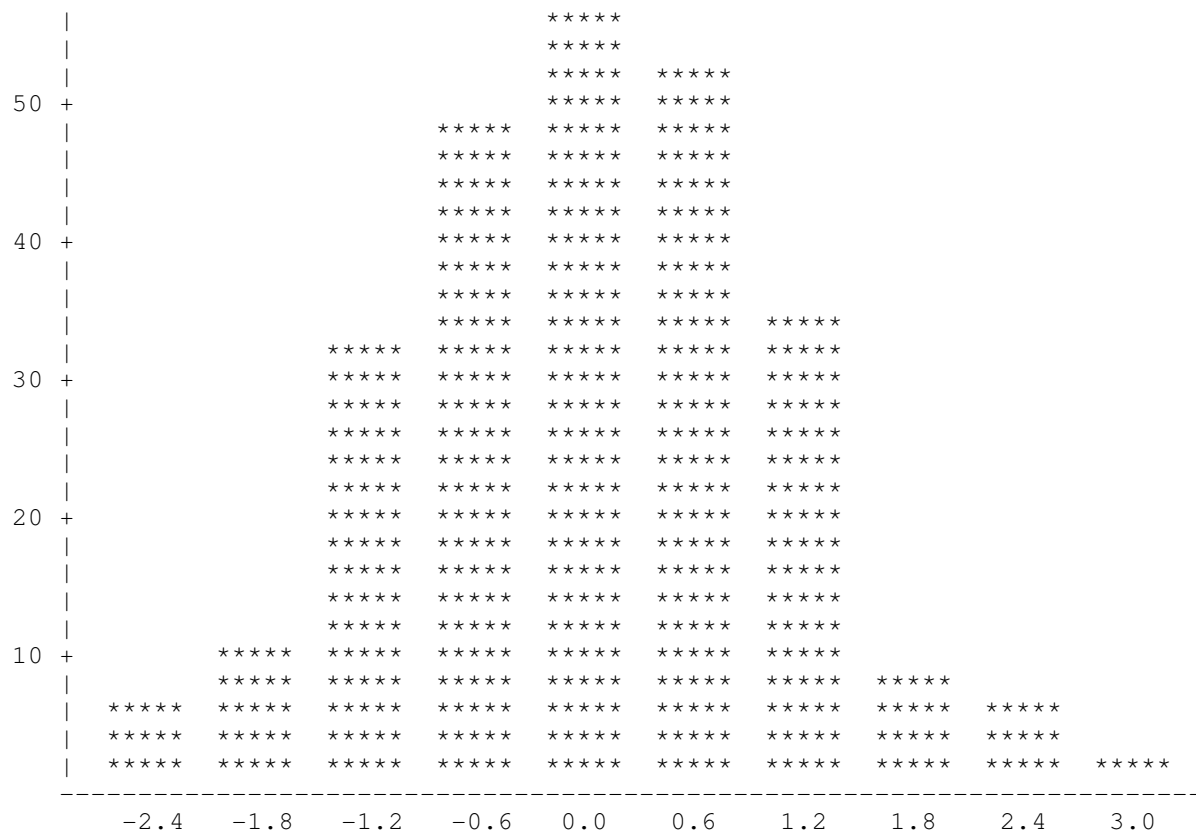


X1	=A	X2	=B	X3	=C	X4	=D	X5	=E
X6	=F	X7	=G	X8	=H	X9	=I	X10	=G

N2: 2 common factors: ML 372
09:13 Wednesday, March 24, 1999

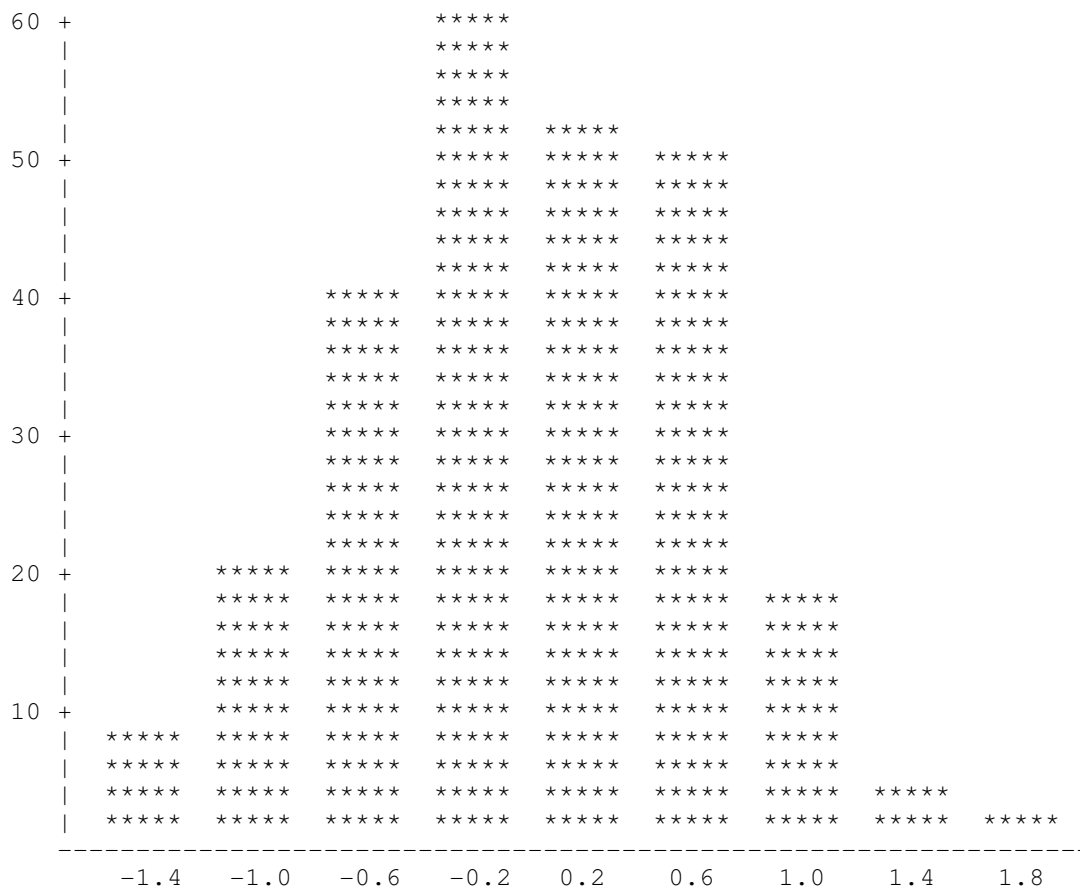
Frequency

60 + *****
| *****



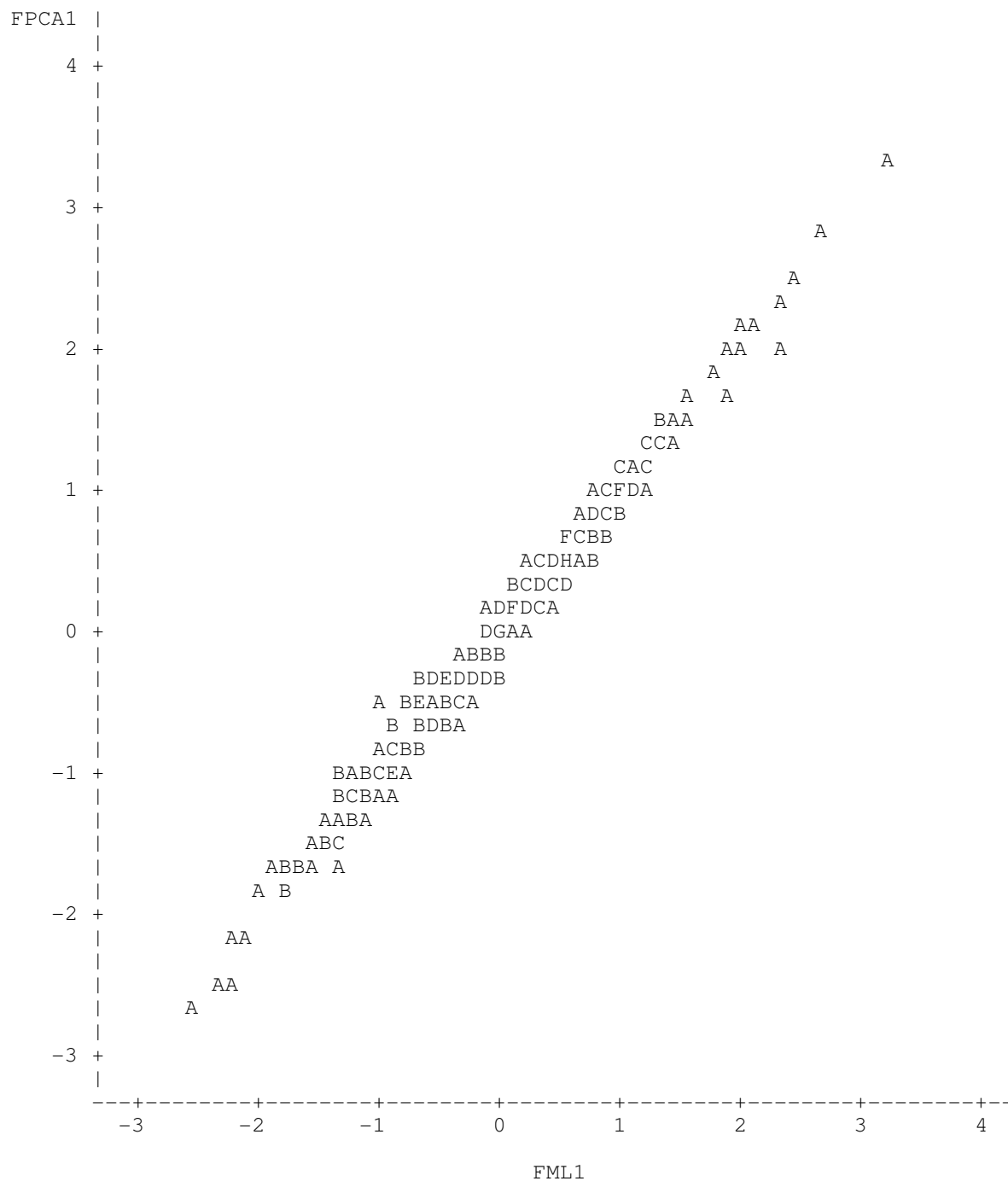
FACTOR1 Midpoint
N2: 2 common factors: ML 373
09:13 Wednesday, March 24, 1999

Frequency



FACTOR2 Midpoint
 N2: Comparing factors by method 374
 09:13 Wednesday, March 24, 1999

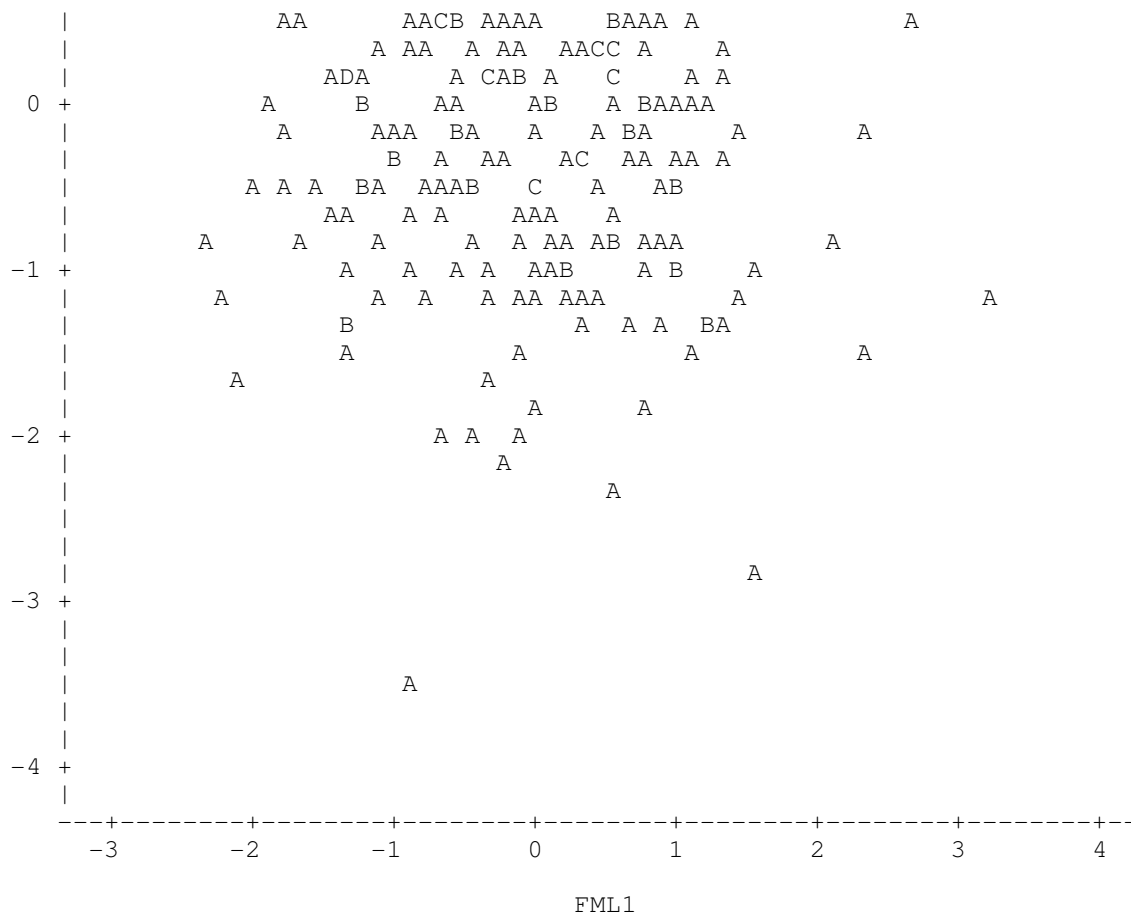
Plot of FPCA1*FML1. Legend: A = 1 obs, B = 2 obs, etc.



N2: Comparing factors by method 375
 09:13 Wednesday, March 24, 1999

Plot of FPCA1*FML2. Legend: A = 1 obs, B = 2 obs, etc.

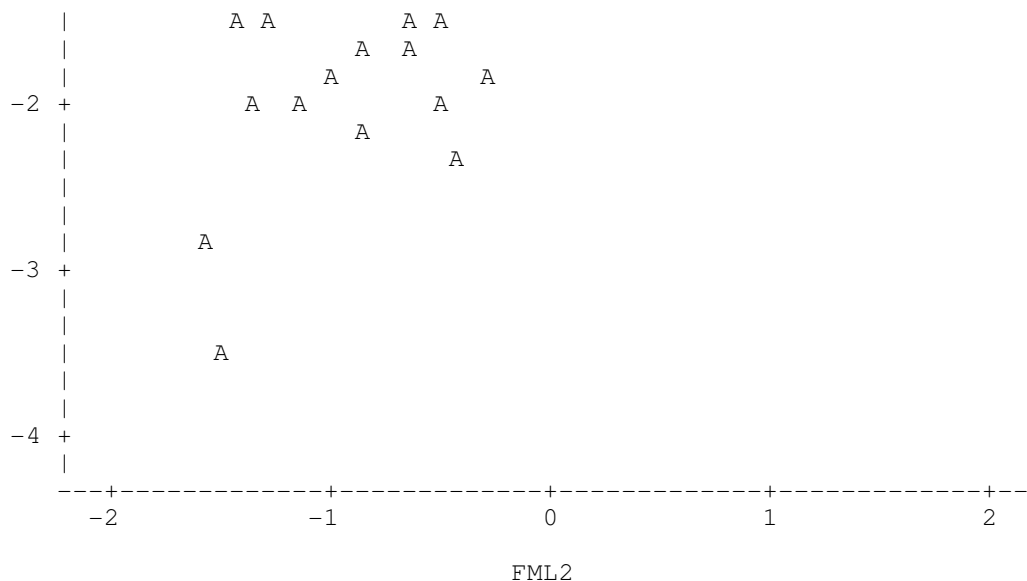
FPCA1 |
 |
 4 +
 |
 |



N2: Comparing factors by method 377
 09:13 Wednesday, March 24, 1999

Plot of FPCA2*FML2. Legend: A = 1 obs, B = 2 obs, etc.





N3: 2 common factors: PCA 378
09:13 Wednesday, March 24, 1999

Initial Factor Method: Principal Components

Partial Correlations Controlling all other Variables

	X1	X2	X3	X4	X5
X1	1.00000	0.10454	0.47844	0.06015	0.84974
X2	0.10454	1.00000	-0.32100	-0.05067	0.02850
X3	0.47844	-0.32100	1.00000	-0.06992	-0.04105
X4	0.06015	-0.05067	-0.06992	1.00000	-0.07158
X5	0.84974	0.02850	-0.04105	-0.07158	1.00000
X6	-0.00632	0.02539	-0.07128	-0.06917	0.04510
X7	-0.07861	-0.87483	0.09605	-0.03611	0.02001
X8	-0.01100	0.09017	-0.02698	-0.08328	0.01767
X9	0.03049	-0.05163	0.00962	0.09621	-0.04472
X10	-0.00446	0.00484	0.05092	-0.05673	-0.03900
	X6	X7	X8	X9	X10
X1	-0.00632	-0.07861	-0.01100	0.03049	-0.00446
X2	0.02539	-0.87483	0.09017	-0.05163	0.00484
X3	-0.07128	0.09605	-0.02698	0.00962	0.05092
X4	-0.06917	-0.03611	-0.08328	0.09621	-0.05673
X5	0.04510	0.02001	0.01767	-0.04472	-0.03900
X6	1.00000	0.06439	0.05045	-0.03508	-0.02740
X7	0.06439	1.00000	0.08221	-0.04906	-0.04525
X8	0.05045	0.08221	1.00000	0.03733	0.07355
X9	-0.03508	-0.04906	0.03733	1.00000	-0.07561
X10	-0.02740	-0.04525	0.07355	-0.07561	1.00000

Kaiser's Measure of Sampling Adequacy: Over-all MSA = 0.64013829

X1	X2	X3	X4	X5
0.573446	0.602177	0.809422	0.606662	0.628844
X6	X7	X8	X9	X10
0.400163	0.623330	0.577202	0.493121	0.688368

Prior Communality Estimates: ONE

Eigenvalues of the Correlation Matrix: Total = 10 Average = 1

	1	2	3	4	5
Eigenvalue	2.7514	2.0907	1.2164	1.0268	0.9982
Difference	0.6607	0.8742	0.1896	0.0286	0.1298
Proportion	0.2751	0.2091	0.1216	0.1027	0.0998
Cumulative	0.2751	0.4842	0.6059	0.7085	0.8084
	6	7	8	9	10
Eigenvalue	0.8684	0.8299	0.1348	0.0462	0.0372
Difference	0.0385	0.6951	0.0886	0.0090	
Proportion	0.0868	0.0830	0.0135	0.0046	0.0037
Cumulative	0.8952	0.9782	0.9917	0.9963	1.0000

2 factors will be retained by the NFACTOR criterion.

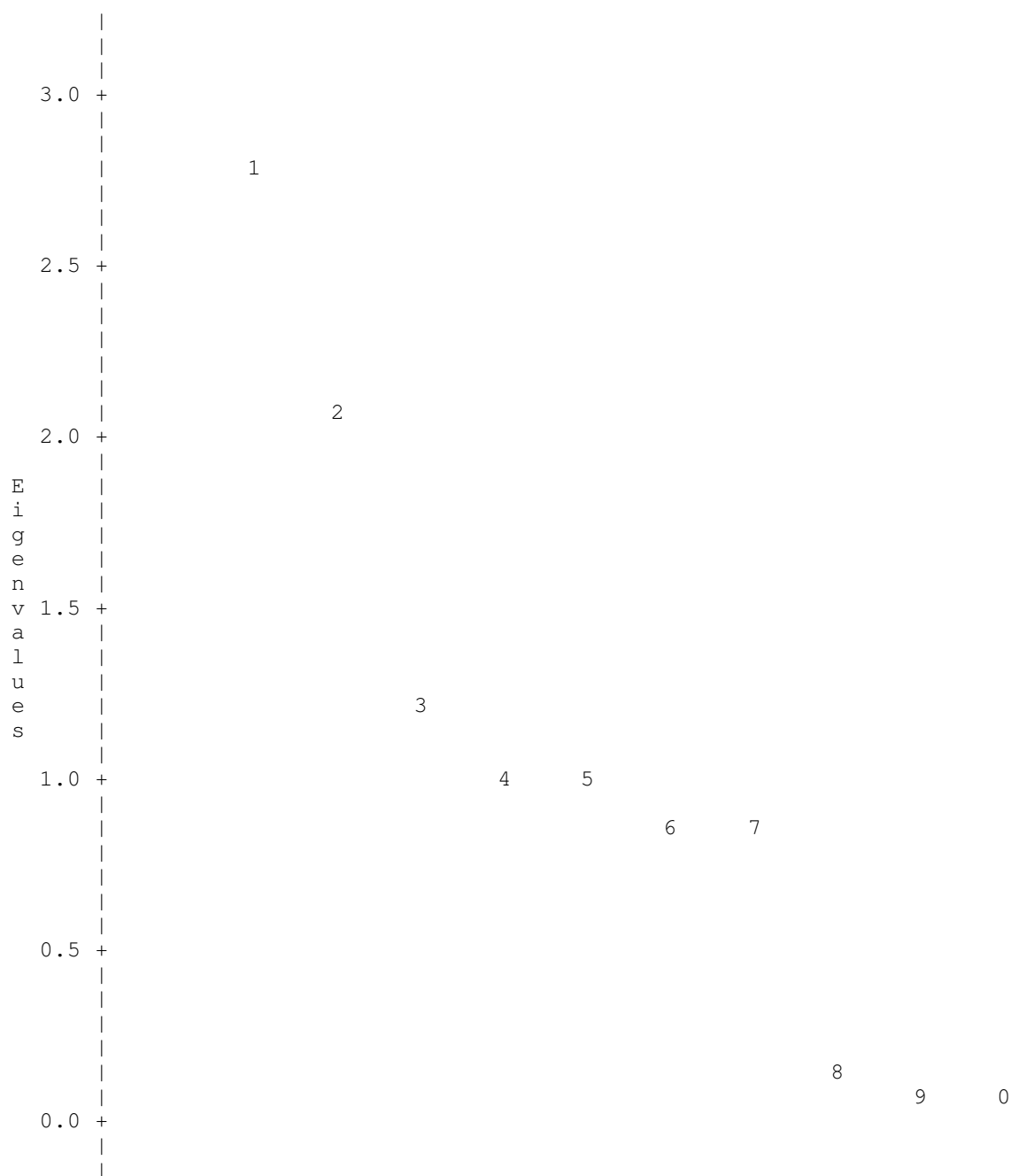
N3: 2 common factors: PCA

379

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Initial Factor Method: Principal Components

Scree Plot of Eigenvalues



|
 -----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----
 0 1 2 3 4 5 6 7 8 9 10

Number
 N3: 2 common factors: PCA 380
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Initial Factor Method: Principal Components

Eigenvectors

	1	2
X1	0.39603	0.50307
X2	-0.42413	0.47320
X3	0.57362	0.01754
X4	-0.08215	-0.10472
X5	0.37453	0.51792
X6	0.00806	0.00759
X7	0.41445	-0.47804
X8	-0.08145	0.07313
X9	0.01437	-0.07198
X10	-0.09243	0.06623

Factor Pattern

	FACTOR1	FACTOR2
X1	0.65691	0.72739
X2	-0.70352	0.68420
X3	0.95148	0.02536
X4	-0.13627	-0.15142
X5	0.62124	0.74887
X6	0.01338	0.01097
X7	0.68745	-0.69121
X8	-0.13511	0.10574
X9	0.02383	-0.10408
X10	-0.15332	0.09576

Variance explained by each factor

FACTOR1	FACTOR2
2.751385	2.090690

Final Communality Estimates: Total = 4.842076

X1	X2	X3	X4	X5
0.960636	0.963068	0.905955	0.041497	0.946746
X6	X7	X8	X9	X10
0.000299	0.950359	0.029436	0.011401	0.032679

N3: 2 common factors: PCA 381
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Initial Factor Method: Principal Components

Residual Correlations With Uniqueness on the Diagonal

	X1	X2	X3	X4	X5
X1	0.03936	-0.00112	-0.01403	0.10000	-0.00651
X2	-0.00112	0.03693	0.01921	0.01969	-0.00986
X3	-0.01403	0.01921	0.09404	0.03268	-0.04133
X4	0.10000	0.01969	0.03268	0.95850	0.07919
X5	-0.00651	-0.00986	-0.04133	0.07919	0.05325
X6	-0.01527	-0.00625	-0.03374	-0.07532	0.00364

X7	0.00060	-0.00453	-0.02942	-0.03698	0.01365
X8	-0.01362	-0.06284	0.03492	-0.09054	-0.00750
X9	0.04503	0.03956	0.00112	0.09475	0.03048
X10	-0.00817	-0.07185	0.07345	-0.06794	-0.02089

	X6	X7	X8	X9	X10
X1	-0.01527	0.00060	-0.01362	0.04503	-0.00817
X2	-0.00625	-0.00453	-0.06284	0.03956	-0.07185
X3	-0.03374	-0.02942	0.03492	0.00112	0.07345
X4	-0.07532	-0.03698	-0.09054	0.09475	-0.06794
X5	0.00364	0.01365	-0.00750	0.03048	-0.02089
X6	0.99970	0.02562	0.06156	-0.04408	-0.02345
X7	0.02562	0.04964	0.08921	-0.05597	0.06647
X8	0.06156	0.08921	0.97056	0.02477	0.05076
X9	-0.04408	-0.05597	0.02477	0.98860	-0.06532
X10	-0.02345	0.06647	0.05076	-0.06532	0.96732

Root Mean Square Off-diagonal Residuals: Over-all = 0.04769531

X1	X2	X3	X4	X5
0.037644	0.035888	0.036455	0.071925	0.032898
X6	X7	X8	X9	X10
0.039490	0.045468	0.056319	0.051050	0.055265

Partial Correlations Controlling Factors

	X1	X2	X3	X4	X5
X1	1.00000	-0.02941	-0.23055	0.51482	-0.14226
X2	-0.02941	1.00000	0.32590	0.10463	-0.22225
X3	-0.23055	0.32590	1.00000	0.10885	-0.58395
X4	0.51482	0.10463	0.10885	1.00000	0.35053
X5	-0.14226	-0.22225	-0.58395	0.35053	1.00000
X6	-0.07700	-0.03251	-0.11003	-0.07694	0.01577
X7	0.01356	-0.10588	-0.43055	-0.16951	0.26543
X8	-0.06968	-0.33192	0.11560	-0.09387	-0.03300
X9	0.22824	0.20704	0.00369	0.09733	0.13284
X10	-0.04186	-0.38016	0.24351	-0.07056	-0.09205

N3: 2 common factors: PCA

382

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Initial Factor Method: Principal Components

Partial Correlations Controlling Factors

	X6	X7	X8	X9	X10
X1	-0.07700	0.01356	-0.06968	0.22824	-0.04186
X2	-0.03251	-0.10588	-0.33192	0.20704	-0.38016
X3	-0.11003	-0.43055	0.11560	0.00369	0.24351
X4	-0.07694	-0.16951	-0.09387	0.09733	-0.07056
X5	0.01577	0.26543	-0.03300	0.13284	-0.09205
X6	1.00000	0.11503	0.06249	-0.04434	-0.02384
X7	0.11503	1.00000	0.40643	-0.25265	0.30333
X8	0.06249	0.40643	1.00000	0.02529	0.05239
X9	-0.04434	-0.25265	0.02529	1.00000	-0.06679
X10	-0.02384	0.30333	0.05239	-0.06679	1.00000

Root Mean Square Off-diagonal Partial: Over-all = 0.21759975

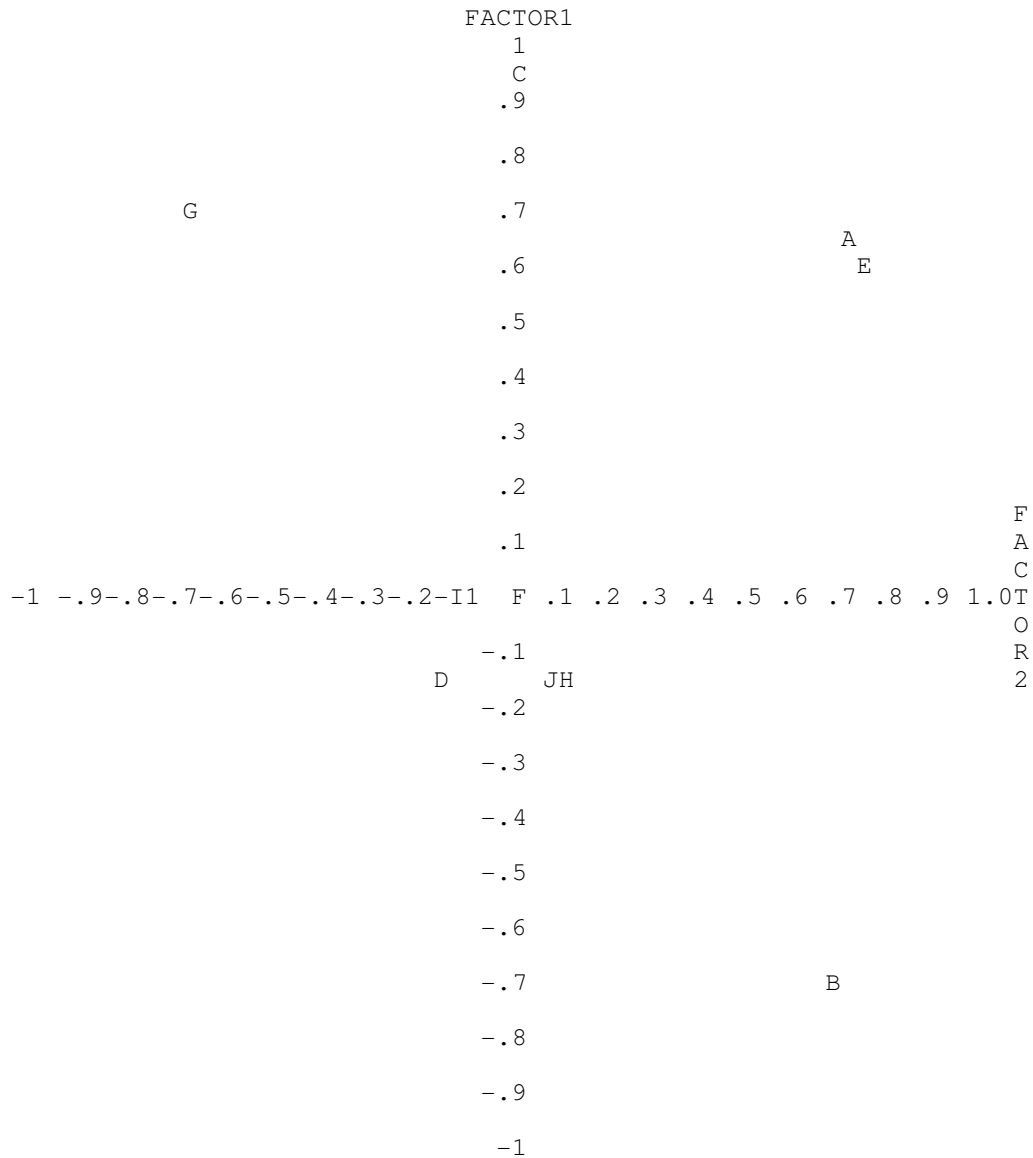
X1	X2	X3	X4	X5
0.211900	0.230275	0.294839	0.228187	0.264871
X6	X7	X8	X9	X10

0.070657 0.264620 0.185820 0.146437 0.188209

N3: 2 common factors: PCA 383
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Initial Factor Method: Principal Components

Plot of Factor Pattern for FACTOR1 and FACTOR2



X1	=A	X2	=B	X3	=C	X4	=D	X5	=E
X6	=F	X7	=G	X8	=H	X9	=I	X10	=J

N3: 2 common factors: PCA 384
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Rotation Method: Varimax

Orthogonal Transformation Matrix

	1	2
1	0.73019	0.68325
2	-0.68325	0.73019

Rotated Factor Pattern

	FACTOR1	FACTOR2
--	---------	---------

X1	-0.01732	0.97997
X2	-0.98118	0.01892
X3	0.67743	0.66861
X4	0.00395	-0.20367
X5	-0.05804	0.97128
X6	0.00227	0.01715
X7	0.97423	-0.03501
X8	-0.17090	-0.01510
X9	0.08851	-0.05972
X10	-0.17739	-0.03483

Variance explained by each factor

FACTOR1	FACTOR2
2.442956	2.399119

Final Communality Estimates: Total = 4.842076

X1	X2	X3	X4	X5
0.960636	0.963068	0.905955	0.041497	0.946746
X6	X7	X8	X9	X10
0.000299	0.950359	0.029436	0.011401	0.032679

Scoring Coefficients Estimated by Regression

Squared Multiple Correlations of the Variables with each Factor

FACTOR1	FACTOR2
1.000000	1.000000

N3: 2 common factors: PCA 385
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Rotation Method: Varimax

Standardized Scoring Coefficients

	FACTOR1	FACTOR2
X1	-0.06338	0.41718
X2	-0.41031	0.06426
X3	0.24423	0.24514
X4	0.01332	-0.08672
X5	-0.07986	0.41582
X6	-0.00004	0.00715
X7	0.40833	-0.07070
X8	-0.07041	0.00338
X9	0.04034	-0.03043
X10	-0.07199	-0.00463

N3: 2 common factors: PCA 386
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Rotation Method: Varimax

Plot of Factor Pattern for FACTOR1 and FACTOR2

FACTOR1

1

G

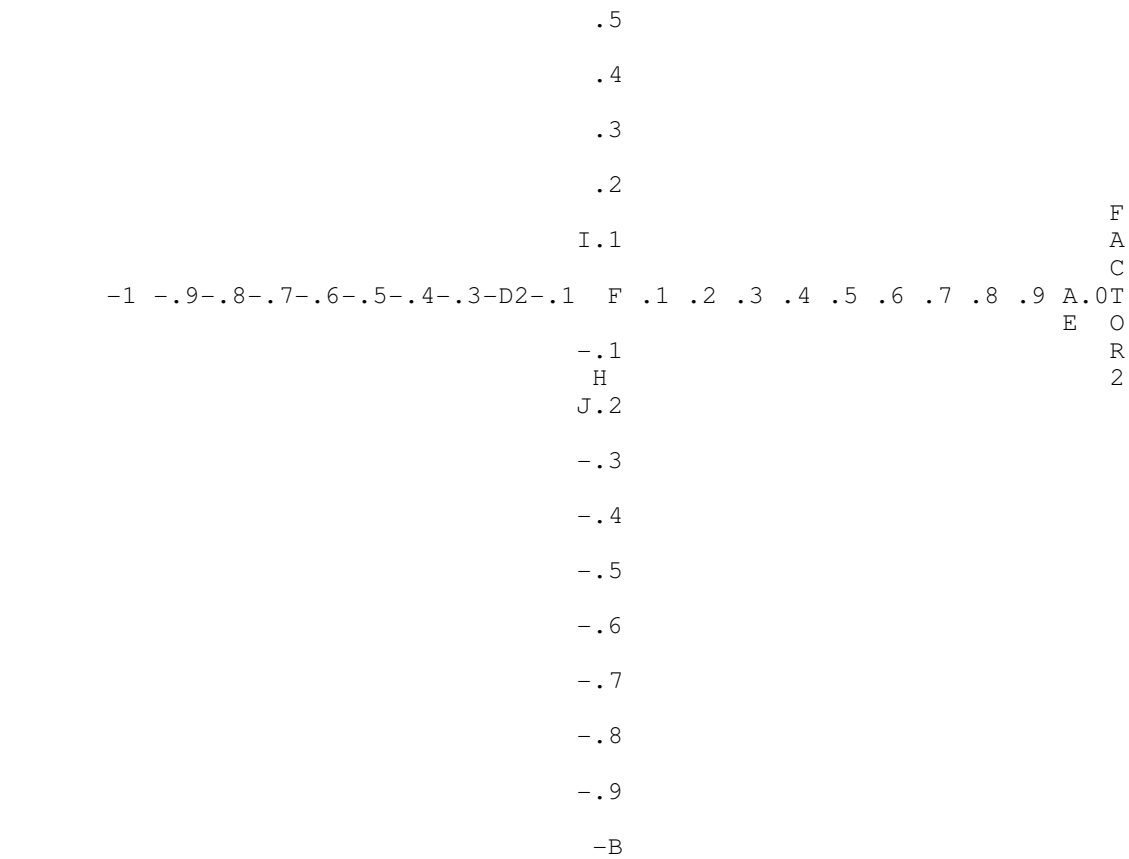
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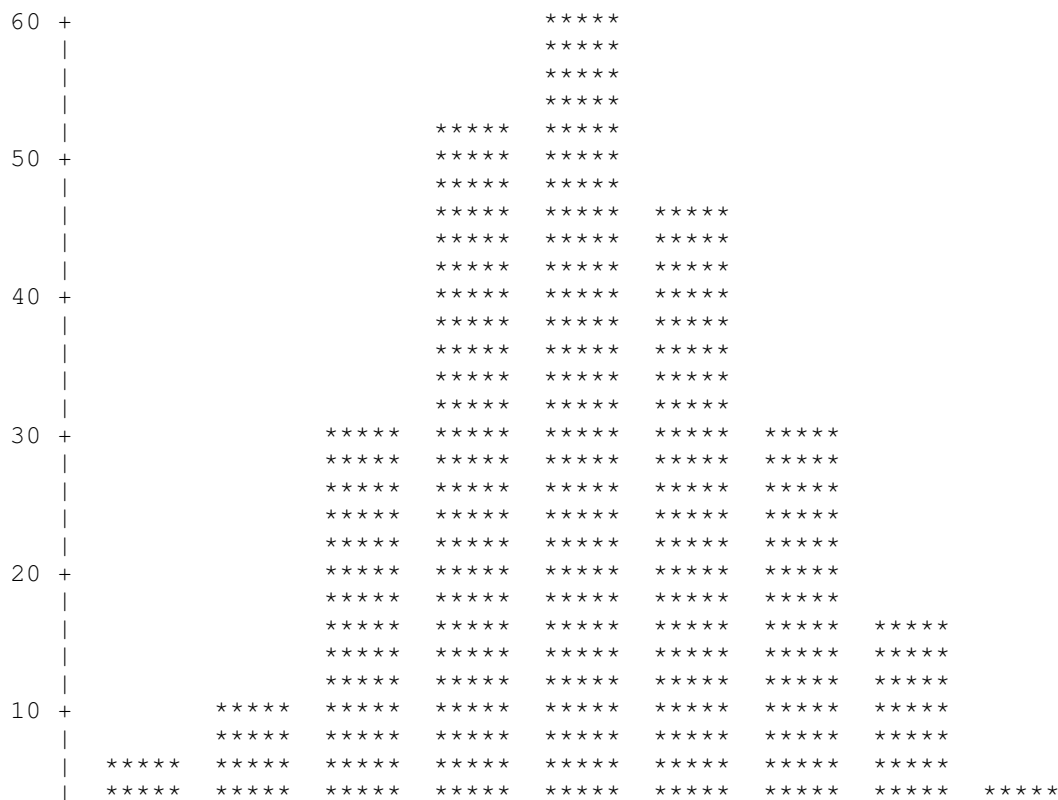
C

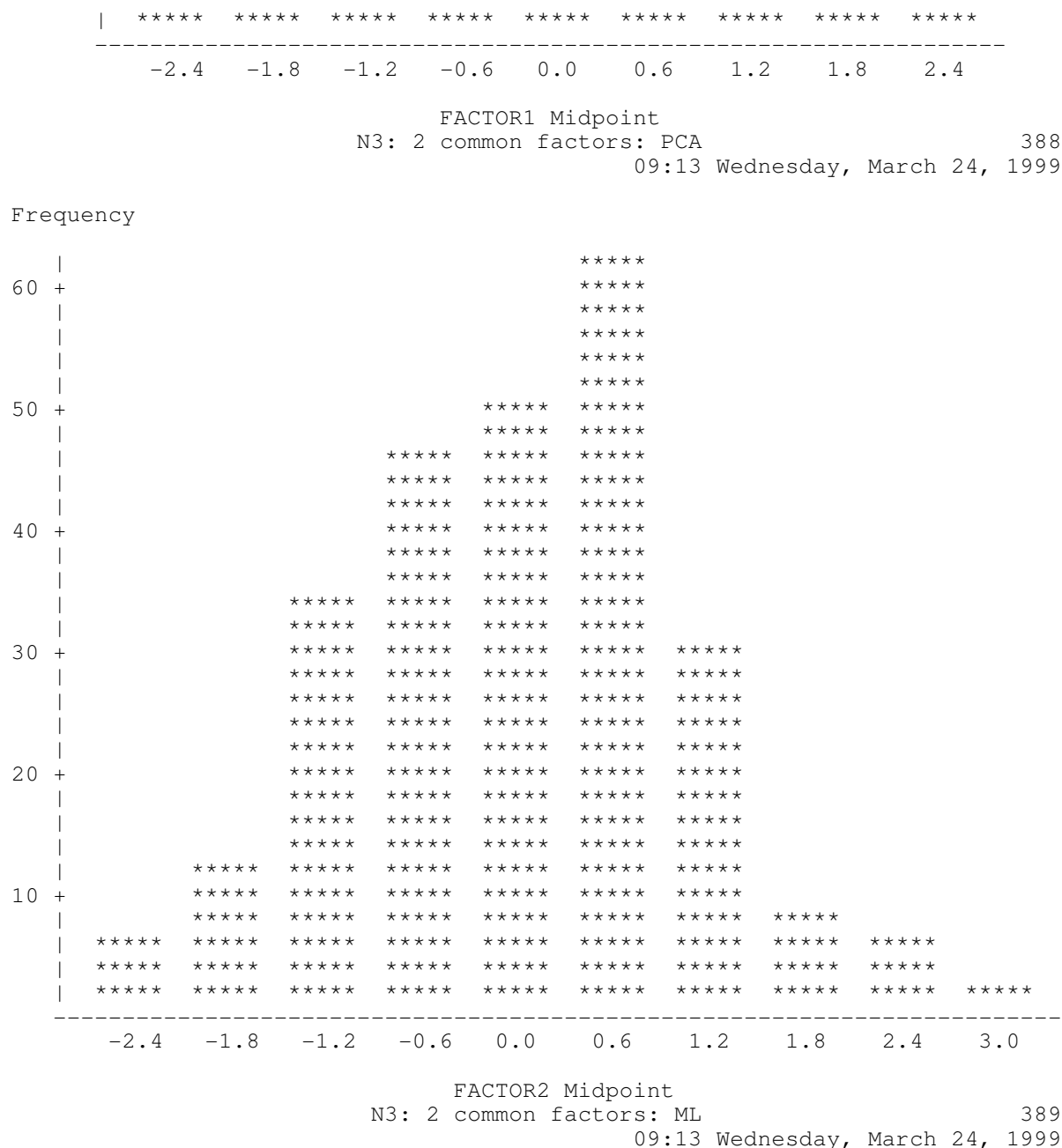


X1	=A	X2	=B	X3	=C	X4	=D	X5	=E
X6	=F	X7	=G	X8	=H	X9	=I	X10	=J

N3: 2 common factors: PCA 387
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Frequency





Initial Factor Method: Maximum Likelihood

Partial Correlations Controlling all other Variables

	X1	X2	X3	X4	X5
X1	1.00000	0.10454	0.47844	0.06015	0.84974
X2	0.10454	1.00000	-0.32100	-0.05067	0.02850
X3	0.47844	-0.32100	1.00000	-0.06992	-0.04105
X4	0.06015	-0.05067	-0.06992	1.00000	-0.07158
X5	0.84974	0.02850	-0.04105	-0.07158	1.00000
X6	-0.00632	0.02539	-0.07128	-0.06917	0.04510
X7	-0.07861	-0.87483	0.09605	-0.03611	0.02001
X8	-0.01100	0.09017	-0.02698	-0.08328	0.01767
X9	0.03049	-0.05163	0.00962	0.09621	-0.04472
X10	-0.00446	0.00484	0.05092	-0.05673	-0.03900
	X6	X7	X8	X9	X10
X1	-0.00632	-0.07861	-0.01100	0.03049	-0.00446
X2	0.02539	-0.87483	0.09017	-0.05163	0.00484

X3	-0.07128	0.09605	-0.02698	0.00962	0.05092
X4	-0.06917	-0.03611	-0.08328	0.09621	-0.05673
X5	0.04510	0.02001	0.01767	-0.04472	-0.03900
X6	1.00000	0.06439	0.05045	-0.03508	-0.02740
X7	0.06439	1.00000	0.08221	-0.04906	-0.04525
X8	0.05045	0.08221	1.00000	0.03733	0.07355
X9	-0.03508	-0.04906	0.03733	1.00000	-0.07561
X10	-0.02740	-0.04525	0.07355	-0.07561	1.00000

Kaiser's Measure of Sampling Adequacy: Over-all MSA = 0.64013829

X1	X2	X3	X4	X5
0.573446	0.602177	0.809422	0.606662	0.628844
X6	X7	X8	X9	X10
0.400163	0.623330	0.577202	0.493121	0.688368

Prior Communality Estimates: SMC

X1	X2	X3	X4	X5
0.920717	0.933288	0.829046	0.049254	0.898109
X6	X7	X8	X9	X10
0.022770	0.926041	0.036022	0.025594	0.032692

Preliminary Eigenvalues: Total = 51.9602188 Average = 5.19602188

	1	2	3	4	5
Eigenvalue	29.6859	23.0972	0.2983	0.1511	0.0403
Difference	6.5887	22.7989	0.1472	0.1108	0.1038
Proportion	0.5713	0.4445	0.0057	0.0029	0.0008
Cumulative	0.5713	1.0158	1.0216	1.0245	1.0253
N3: 2 common factors: ML					390
					09:13 Wednesday, March 24, 1999

Initial Factor Method: Maximum Likelihood

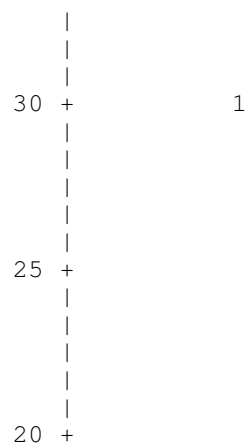
	6	7	8	9	10
Eigenvalue	-0.0635	-0.0992	-0.1636	-0.4728	-0.5135
Difference	0.0357	0.0644	0.3092	0.0407	
Proportion	-0.0012	-0.0019	-0.0031	-0.0091	-0.0099
Cumulative	1.0240	1.0221	1.0190	1.0099	1.0000

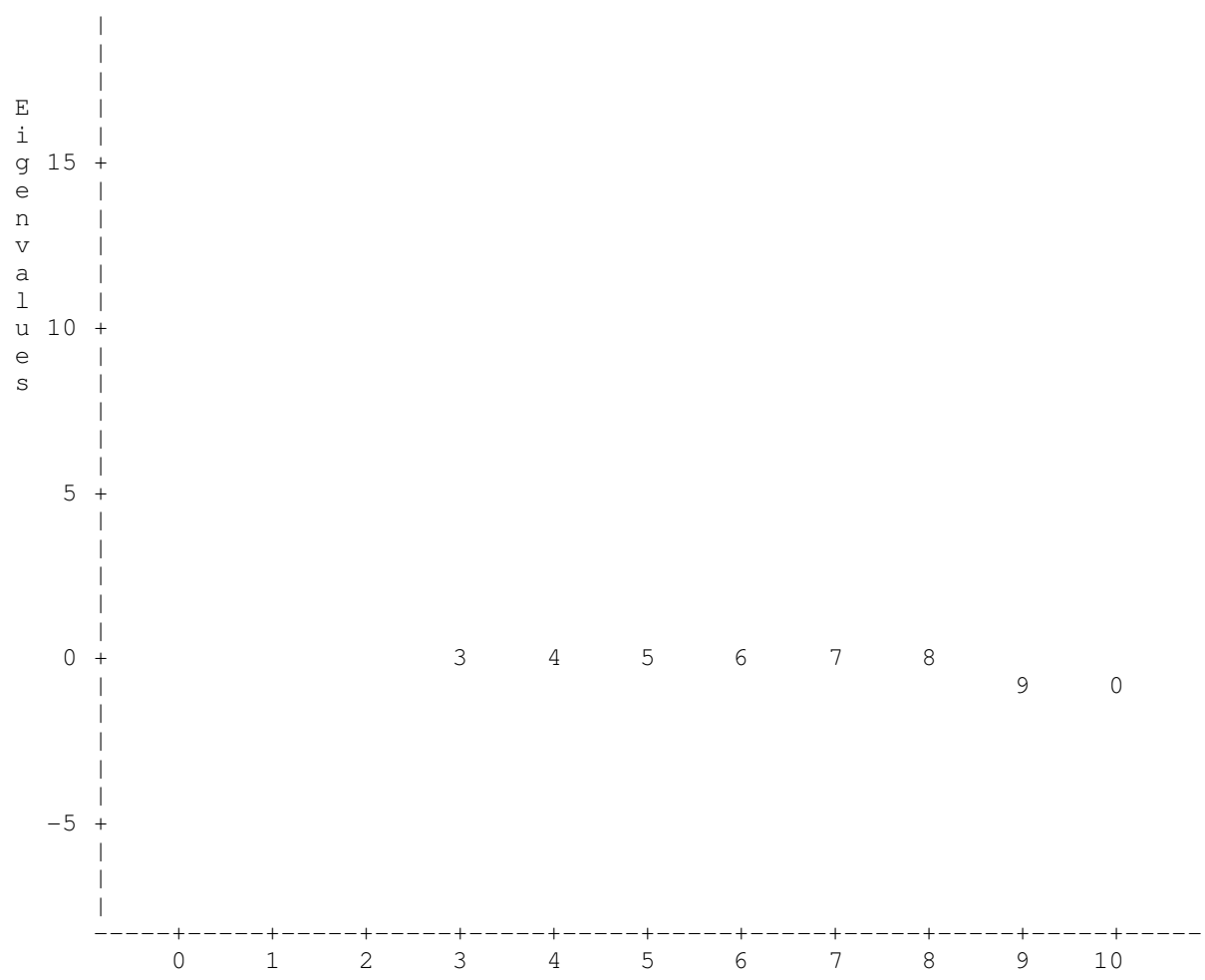
2 factors will be retained by the NFACTOR criterion.

N3: 2 common factors: ML 391
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Initial Factor Method: Maximum Likelihood

Scree Plot of Eigenvalues





Number
N3: 2 common factors: ML 392
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Initial Factor Method: Maximum Likelihood

Iter	Criterion	Ridge	Change	Communalities					
1	0.09764	0.000	0.07928	1.00000	0.98217	0.82814	0.01589	0.88973	
				0.00175	0.93609	0.01164	0.00385	0.01374	
2	0.09345	0.000	0.00685	1.00000	0.98493	0.83186	0.01033	0.89658	
				0.00012	0.93811	0.01094	0.00227	0.01236	
3	0.09345	0.000	0.00010	1.00000	0.98494	0.83183	0.01031	0.89658	
				0.00011	0.93811	0.01104	0.00230	0.01235	

Convergence criterion satisfied.

Significance tests based on 250 observations:

Test of H0: No common factors.
vs HA: At least one common factor.

Chi-square = 1647.259 df = 45 Prob>chi**2 = 0.0001

Test of H0: 2 Factors are sufficient.
vs HA: More factors are needed.

Chi-square = 22.755 df = 26 Prob>chi**2 = 0.6468

Chi-square without Bartlett's correction = 23.268770071

Akaike's Information Criterion = -28.73122993
 Schwarz's Bayesian Criterion = -120.2892138
 Tucker and Lewis's Reliability Coefficient = 1.0035054824

Squared Canonical Correlations

FACTOR1	FACTOR2
1.000000	0.988105

Eigenvectors

	1	2
X1	1.00000	0.00000
X2	0.00000	0.99839
X3	0.00000	-0.02428
X4	0.00000	0.00264
X5	0.00000	-0.00025
X6	0.00000	-0.00373
X7	0.00000	-0.05105
X8	0.00000	0.00129
X9	0.00000	-0.00063
X10	0.00000	0.00124

N3: 2 common factors: ML 393
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Initial Factor Method: Maximum Likelihood

Eigenvalues of the Weighted Reduced Correlation Matrix:

Total = 83.0682439 Average = 9.22980488

	1	2	3	4	5
Eigenvalue	.	83.0682	0.3189	0.1476	0.0325
Difference	.	82.7494	0.1713	0.1151	0.0477
Proportion	.	1.0000	0.0038	0.0018	0.0004
Cumulative	.	1.0000	1.0038	1.0056	1.0060

	6	7	8	9	10
Eigenvalue	-0.0152	-0.0463	-0.0861	-0.1536	-0.1978
Difference	0.0311	0.0398	0.0675	0.0442	
Proportion	-0.0002	-0.0006	-0.0010	-0.0018	-0.0024
Cumulative	1.0058	1.0053	1.0042	1.0024	1.0000

Factor Pattern

	FACTOR1	FACTOR2
X1	1.00000	0.00000
X2	0.03442	0.99185
X3	0.62946	-0.66002
X4	-0.09966	0.01950
X5	0.94631	0.03284
X6	0.00149	-0.01049
X7	-0.05058	-0.96724
X8	-0.02546	0.10195
X9	-0.01503	-0.04550
X10	-0.03923	0.10399

Variance explained by each factor

	FACTOR1	FACTOR2
Weighted	11.147643	83.068244
Unweighted	2.307808	2.379772

Final Communality Estimates and Variable Weights

Total Communality: Weighted = 94.215887 Unweighted = 4.687580

	X1	X2	X3	X4	X5
Communality	1.000000	0.984941	0.831834	0.010312	0.896582

Weight . 66.405803 5.946515 1.010419 9.669498

	X6	X7	X8	X9	X10
Communality	0.000112	0.938109	0.011041	0.002296	0.012352
Weight	1.000112	16.157568	1.011164	1.002301	1.012507

N3: 2 common factors: ML

394

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Initial Factor Method: Maximum Likelihood

Residual Correlations With Uniqueness on the Diagonal

	X1	X2	X3	X4	X5
X1	0.00000	0.00000	0.00000	0.00000	0.00000
X2	0.00000	0.01506	0.00015	-0.00396	0.00034
X3	0.00000	0.00015	0.16817	-0.02522	-0.00523
X4	0.00000	-0.00396	-0.02522	0.98969	-0.02519
X5	0.00000	0.00034	-0.00523	-0.02519	0.10342
X6	0.00000	0.00221	-0.02860	-0.07845	0.01910
X7	0.00000	-0.00000	0.00060	-0.01218	0.00272
X8	0.00000	0.00432	-0.00764	-0.09267	0.00849
X9	0.00000	-0.00277	0.00059	0.10665	-0.01694
X10	0.00000	-0.00025	0.02332	-0.06749	-0.01072

	X6	X7	X8	X9	X10
X1	0.00000	0.00000	0.00000	0.00000	0.00000
X2	0.00221	-0.00000	0.00432	-0.00277	-0.00025
X3	-0.02860	0.00060	-0.00764	0.00059	0.02332
X4	-0.07845	-0.01218	-0.09267	0.10665	-0.06749
X5	0.01910	0.00272	0.00849	-0.01694	-0.01072
X6	0.99989	0.01716	0.06202	-0.04536	-0.02330
X7	0.01716	0.06189	0.02056	-0.01241	-0.00653
X8	0.06202	0.02056	0.98896	0.01480	0.07000
X9	-0.04536	-0.01241	0.01480	0.99770	-0.07480
X10	-0.02330	-0.00653	0.07000	-0.07480	0.98765

Root Mean Square Off-diagonal Residuals: Over-all = 0.03415791

	X1	X2	X3	X4	X5
	0.000000	0.002287	0.015217	0.059725	0.012945
	X6	X7	X8	X9	X10
	0.039557	0.010904	0.044876	0.046779	0.042549

Partial Correlations Controlling Factors

	X1	X2	X3	X4	X5
X1	0.00000	0.00000	0.00000	0.00000	0.00000
X2	0.00000	1.00000	0.00289	-0.03241	0.00854
X3	0.00000	0.00289	1.00000	-0.06182	-0.03965
X4	0.00000	-0.03241	-0.06182	1.00000	-0.07873
X5	0.00000	0.00854	-0.03965	-0.07873	1.00000
X6	0.00000	0.01799	-0.06974	-0.07886	0.05939
X7	0.00000	-0.00004	0.00588	-0.04920	0.03402
X8	0.00000	0.03539	-0.01872	-0.09367	0.02656
X9	0.00000	-0.02261	0.00144	0.10733	-0.05275
X10	0.00000	-0.00208	0.05721	-0.06826	-0.03354

N3: 2 common factors: ML

395

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Initial Factor Method: Maximum Likelihood

Partial Correlations Controlling Factors

	X6	X7	X8	X9	X10
X1	0.00000	0.00000	0.00000	0.00000	0.00000
X2	0.01799	-0.00004	0.03539	-0.02261	-0.00208
X3	-0.06974	0.00588	-0.01872	0.00144	0.05721
X4	-0.07886	-0.04920	-0.09367	0.10733	-0.06826
X5	0.05939	0.03402	0.02656	-0.05275	-0.03354
X6	1.00000	0.06898	0.06237	-0.04542	-0.02344
X7	0.06898	1.00000	0.08311	-0.04996	-0.02642
X8	0.06237	0.08311	1.00000	0.01490	0.07083
X9	-0.04542	-0.04996	0.01490	1.00000	-0.07535
X10	-0.02344	-0.02642	0.07083	-0.07535	1.00000

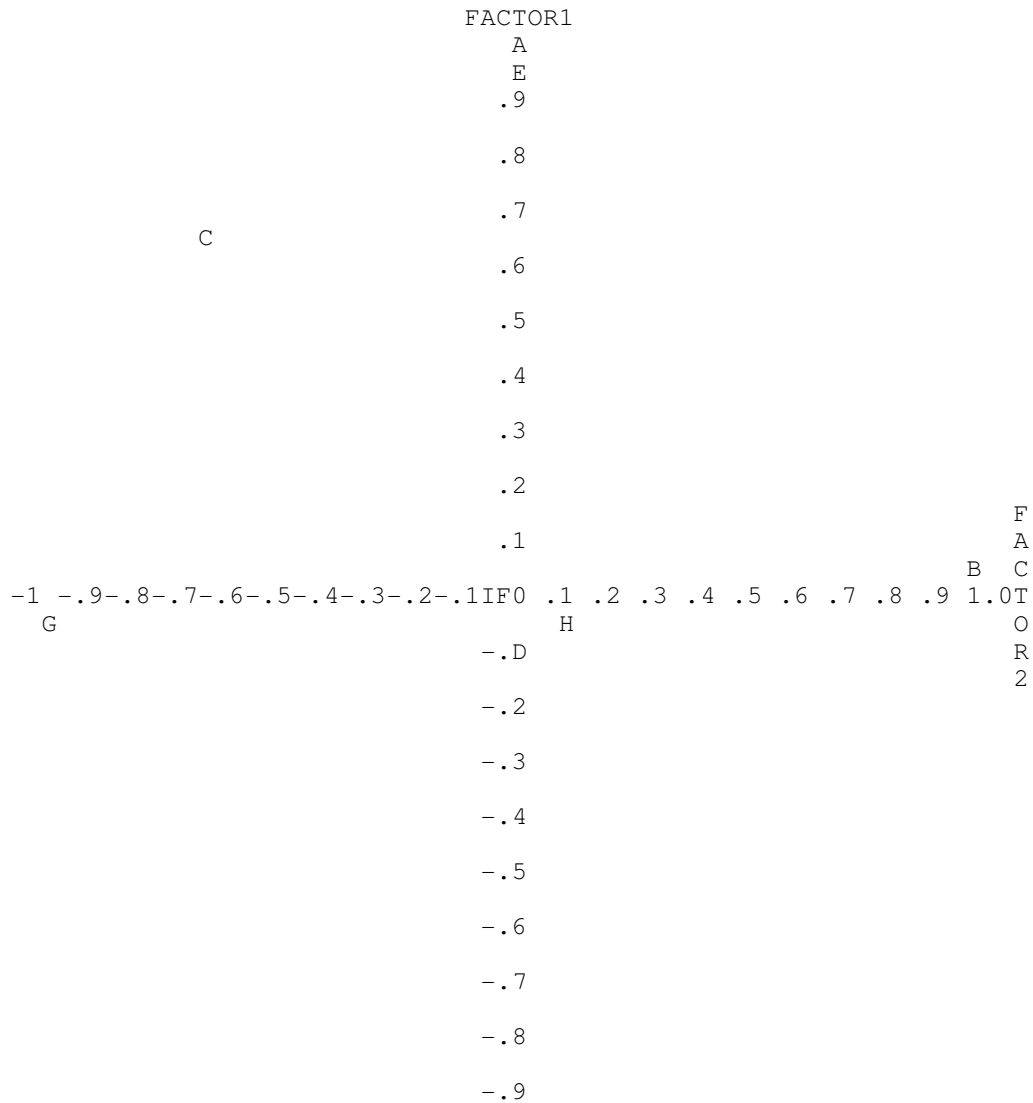
Root Mean Square Off-diagonal Partial: Over-all = 0.04678705

	X1	X2	X3	X4	X5
	0.000000	0.018924	0.039337	0.070444	0.043641
	X6	X7	X8	X9	X10
	0.053949	0.045304	0.054892	0.052991	0.048310

N3: 2 common factors: ML 396
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Initial Factor Method: Maximum Likelihood

Plot of Factor Pattern for FACTOR1 and FACTOR2



-1

X1	=A	X2	=B	X3	=C	X4	=D	X5	=E
X6	=F	X7	=G	X8	=H	X9	=I	X10	=H

N3: 2 common factors: ML 397

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Rotation Method: Varimax

Orthogonal Transformation Matrix

	1	2
1	-0.01848	0.99983
2	-0.99983	-0.01848

Rotated Factor Pattern

	FACTOR1	FACTOR2
X1	-0.01848	0.99983
X2	-0.99231	0.01608
X3	0.64827	0.64154
X4	-0.01765	-0.10000
X5	-0.05032	0.94554
X6	0.01046	0.00169
X7	0.96801	-0.03270
X8	-0.10146	-0.02734
X9	0.04577	-0.01418
X10	-0.10324	-0.04115

Variance explained by each factor

	FACTOR1	FACTOR2
Weighted	83.076176	11.139711
Unweighted	2.368320	2.319261

Final Communality Estimates and Variable Weights

Total Communality: Weighted = 94.215887 Unweighted = 4.687580

	X1	X2	X3	X4	X5
Communality	1.000000	0.984941	0.831834	0.010312	0.896582
Weight	.	66.405803	5.946515	1.010419	9.669498
	X6	X7	X8	X9	X10
Communality	0.000112	0.938109	0.011041	0.002296	0.012352
Weight	1.000112	16.157568	1.011164	1.002301	1.012507

Scoring Coefficients Estimated by Regression

Squared Multiple Correlations of the Variables with each Factor

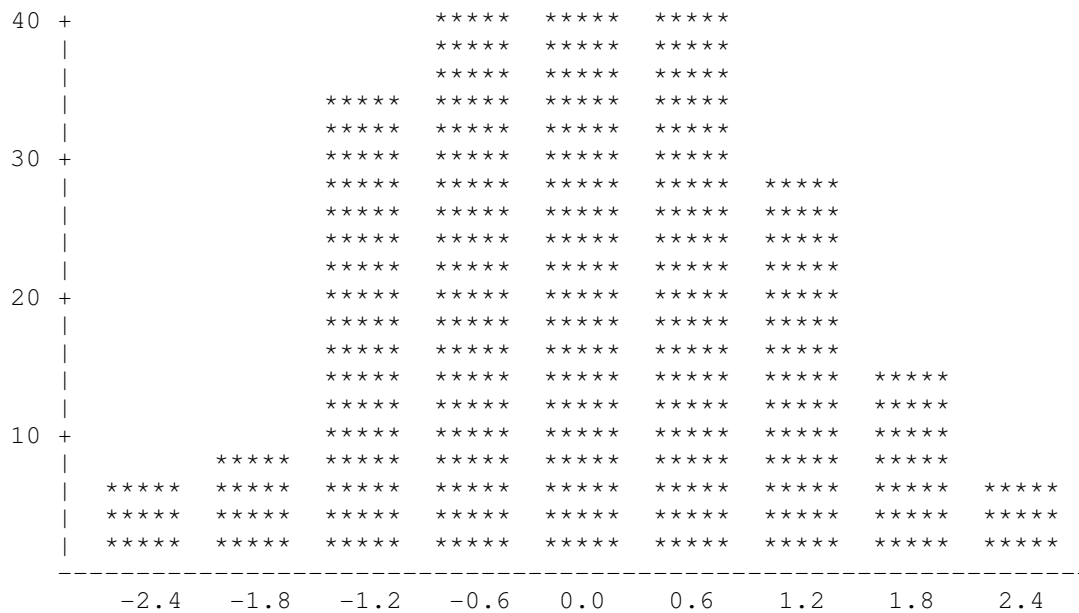
	FACTOR1	FACTOR2
	0.988109	0.999996

N3: 2 common factors: ML 398
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Rotation Method: Varimax

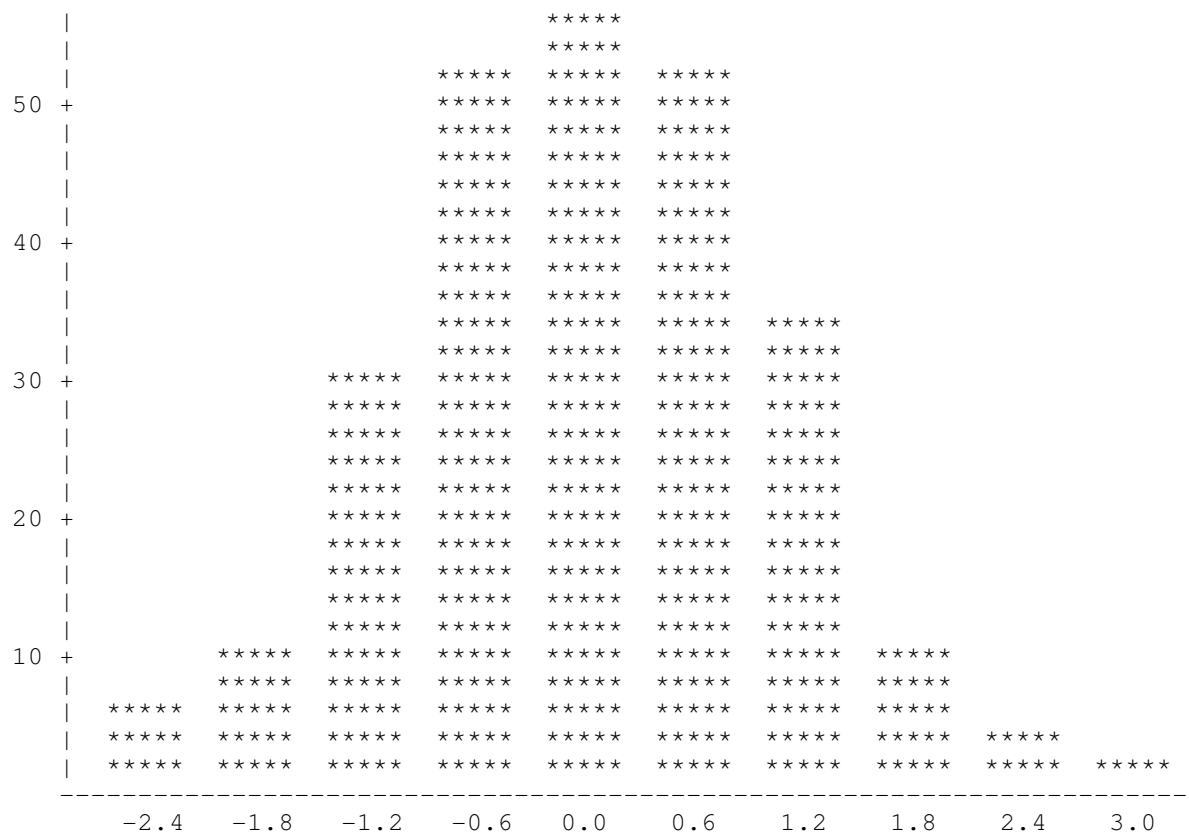
Standardized Scoring Coefficients

	FACTOR1	FACTOR2
X1	-0.00802	1.00002
X2	-0.78333	-0.01448
X3	0.04668	0.00086
X4	-0.00023	-0.00000
X5	-0.00378	-0.00007



FACTOR1 Midpoint
 N3: 2 common factors: ML 401
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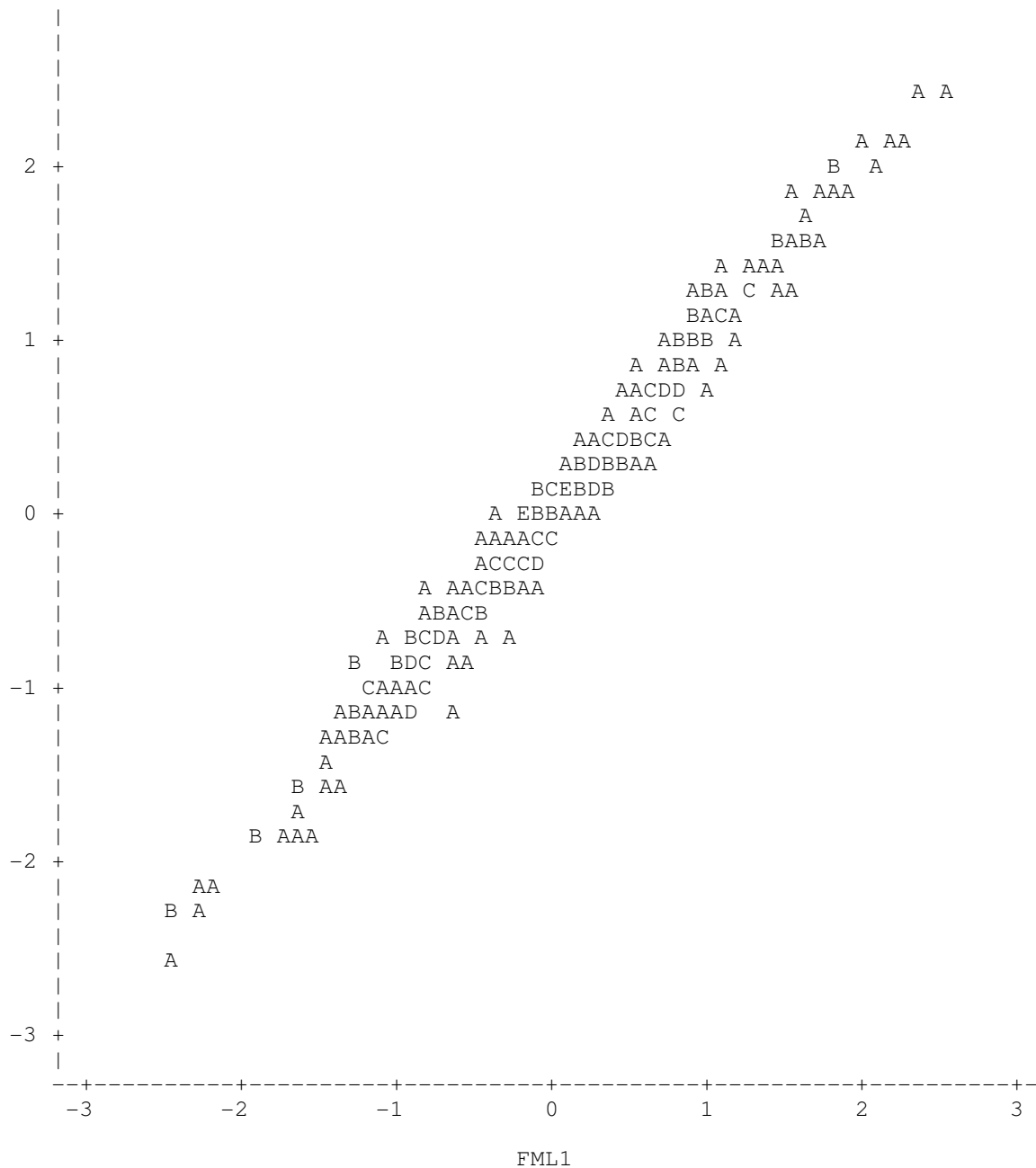
Frequency



FACTOR2 Midpoint
 N3: Comparing factors by method 402
 09:13 Wednesday, March 24, 1999

Plot of FPCA1*FML1. Legend: A = 1 obs, B = 2 obs, etc.

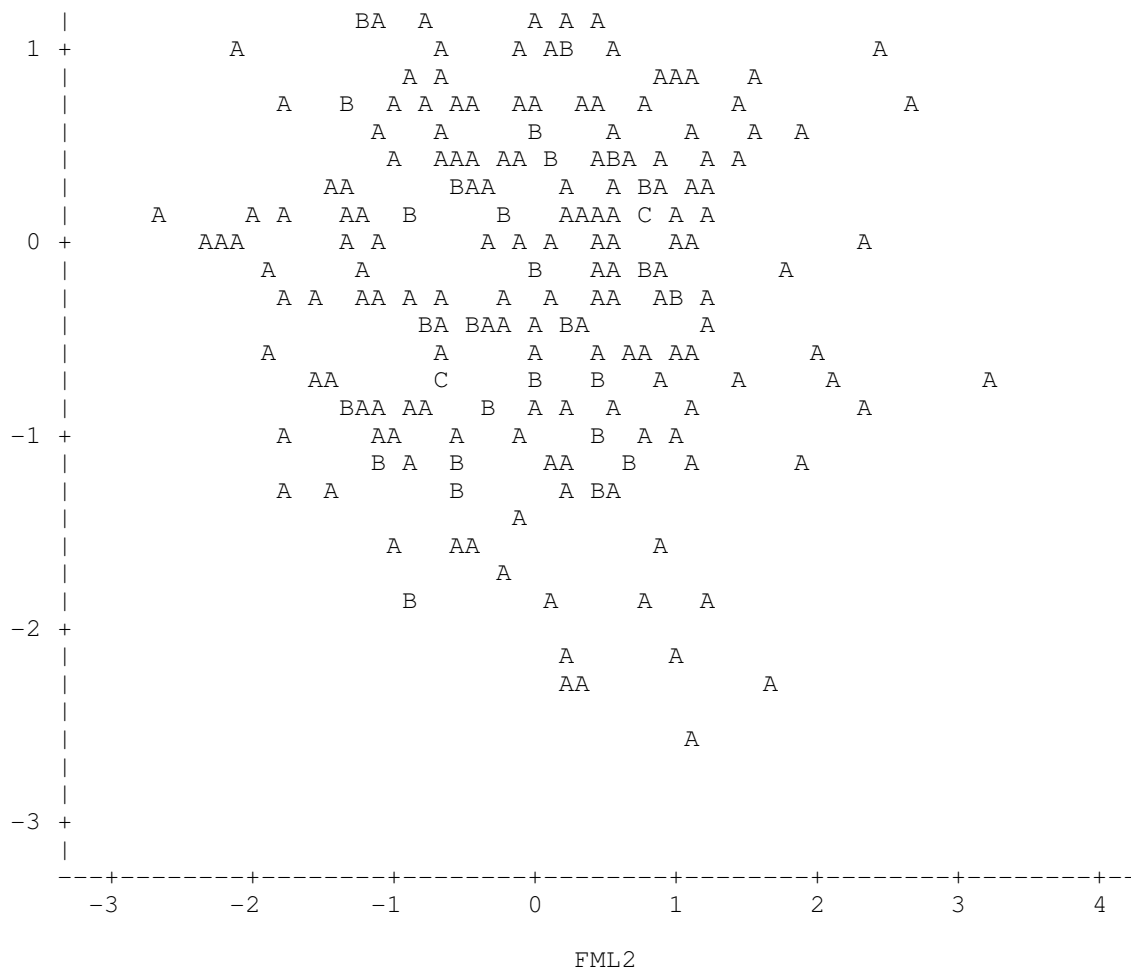
FPCA1 |
 |
 3 +



N3: Comparing factors by method 403
09:13 Wednesday, March 24, 1999

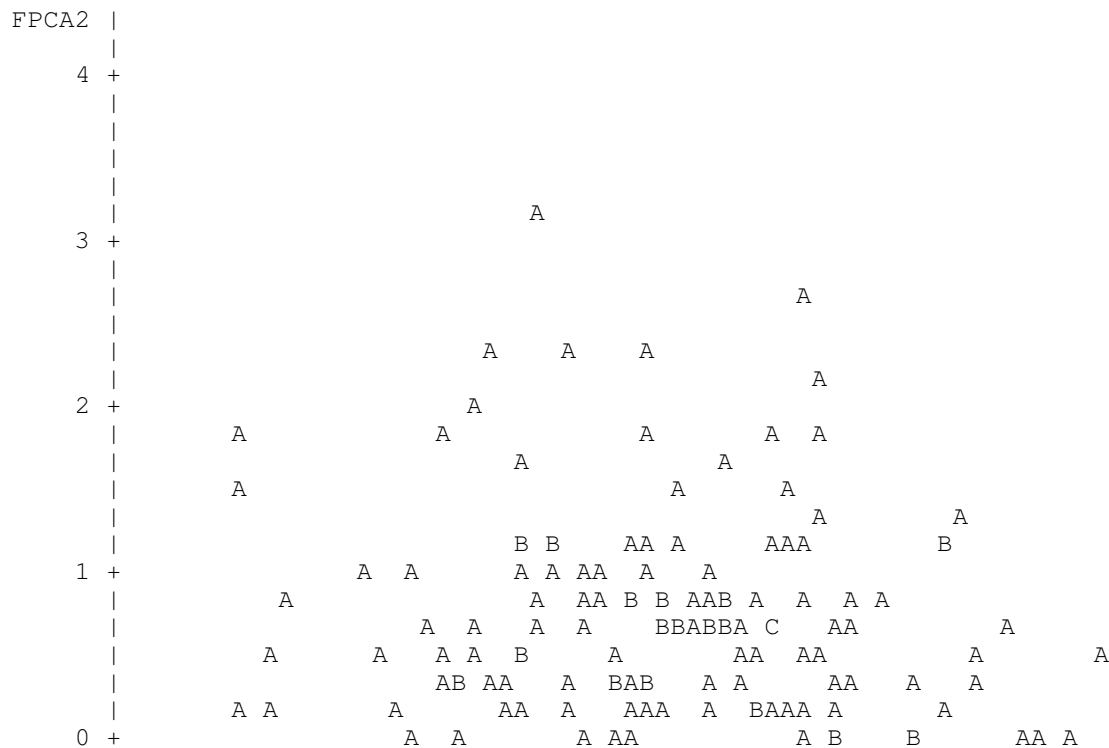
Plot of FPCA1*FML2. Legend: A = 1 obs, B = 2 obs, etc.

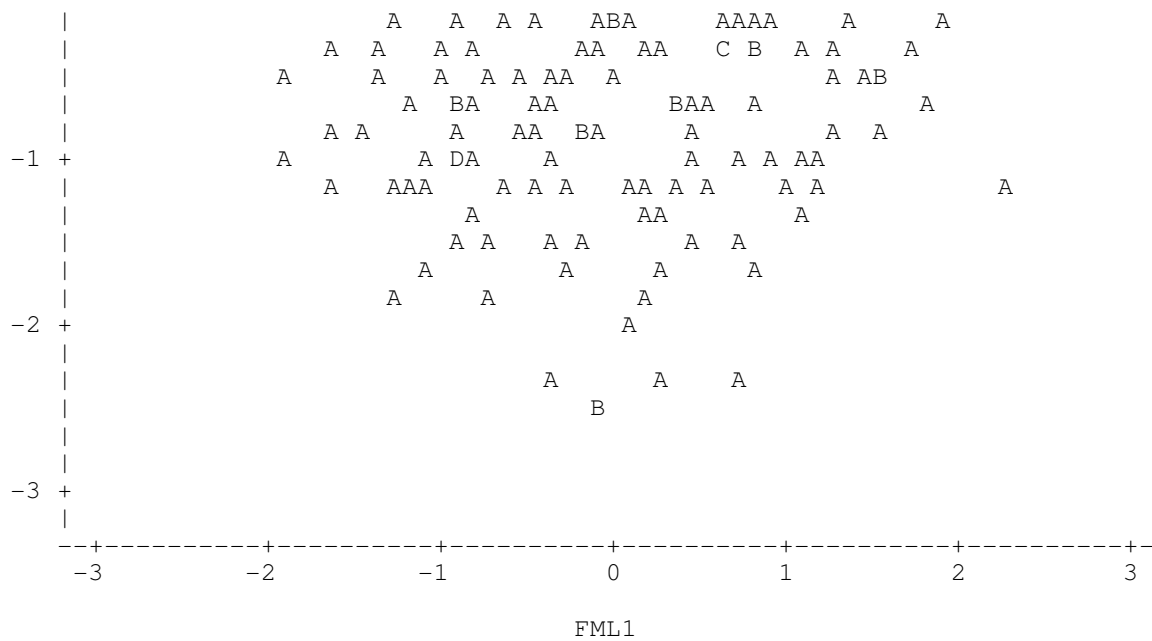




N3: Comparing factors by method 404
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Plot of FPCA2*FML1. Legend: A = 1 obs, B = 2 obs, etc.





N3: Comparing factors by method 405
09:13 Wednesday, March 24, 1999

Plot of FPCA2*FML2. Legend: A = 1 obs, B = 2 obs, etc.

