

## Using METHOD=CENTROID

### The CLUSTER Procedure Centroid Hierarchical Cluster Analysis

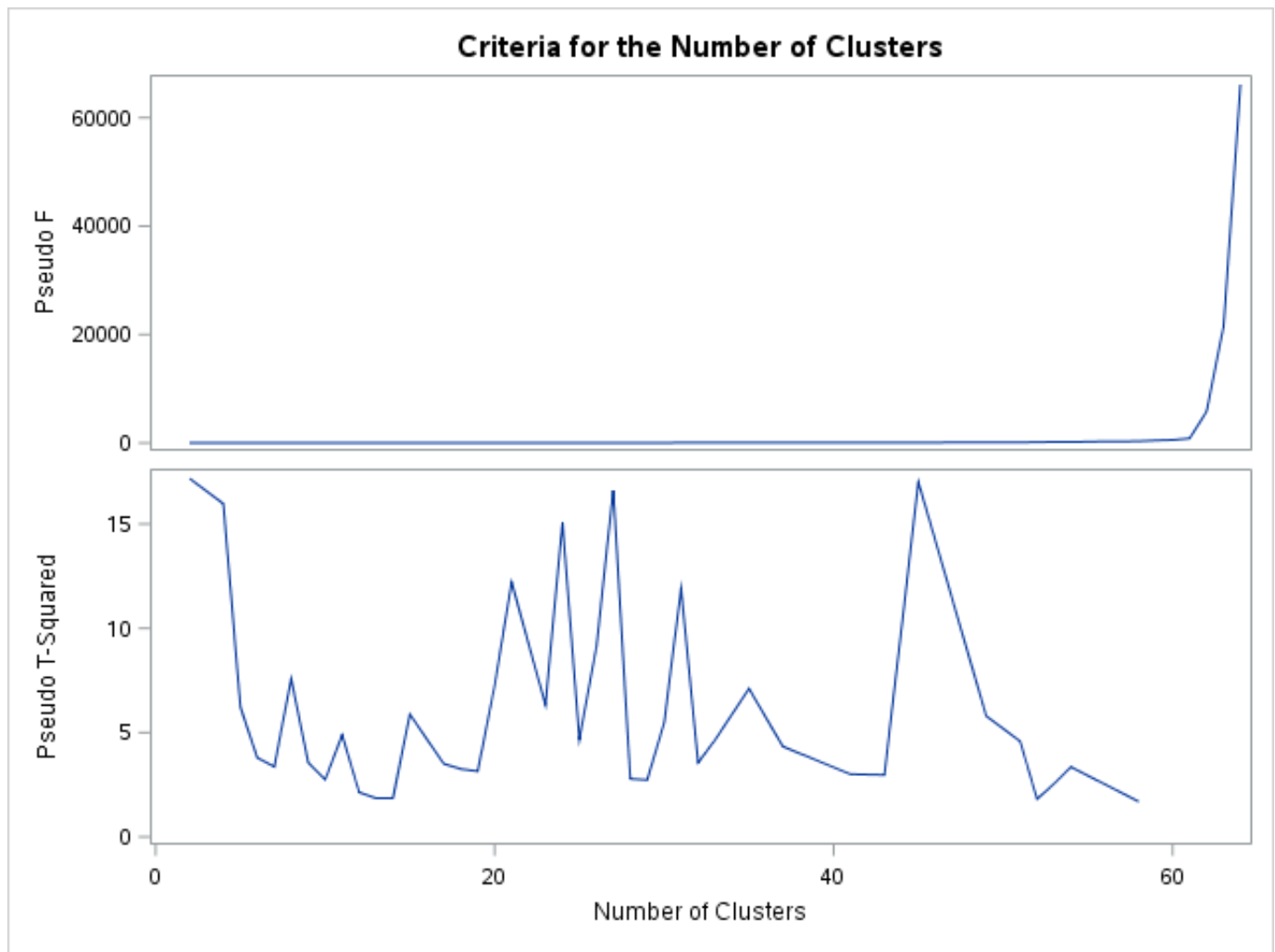
Eigenvalues of the Covariance Matrix				
	Eigenvalue	Difference	Proportion	Cumulative
1	8.94336402	4.54991146	0.4106	0.4106
2	4.39345257	1.88766914	0.2017	0.6124
3	2.50578342	1.21769435	0.1151	0.7274
4	1.28808908	0.23901607	0.0591	0.7865
5	1.04907301	0.09841346	0.0482	0.8347
6	0.95065955	0.11459159	0.0436	0.8784
7	0.83606797	0.08972330	0.0384	0.9167
8	0.74634467	0.05896644	0.0343	0.9510
9	0.68737823	0.47818391	0.0316	0.9826
10	0.20919431	0.11986510	0.0096	0.9922
11	0.08932921	0.04637658	0.0041	0.9963
12	0.04295263	0.01972804	0.0020	0.9983
13	0.02322459	0.00908623	0.0011	0.9993
14	0.01413835	0.01350527	0.0006	1.0000
15	0.00063308		0.0000	1.0000

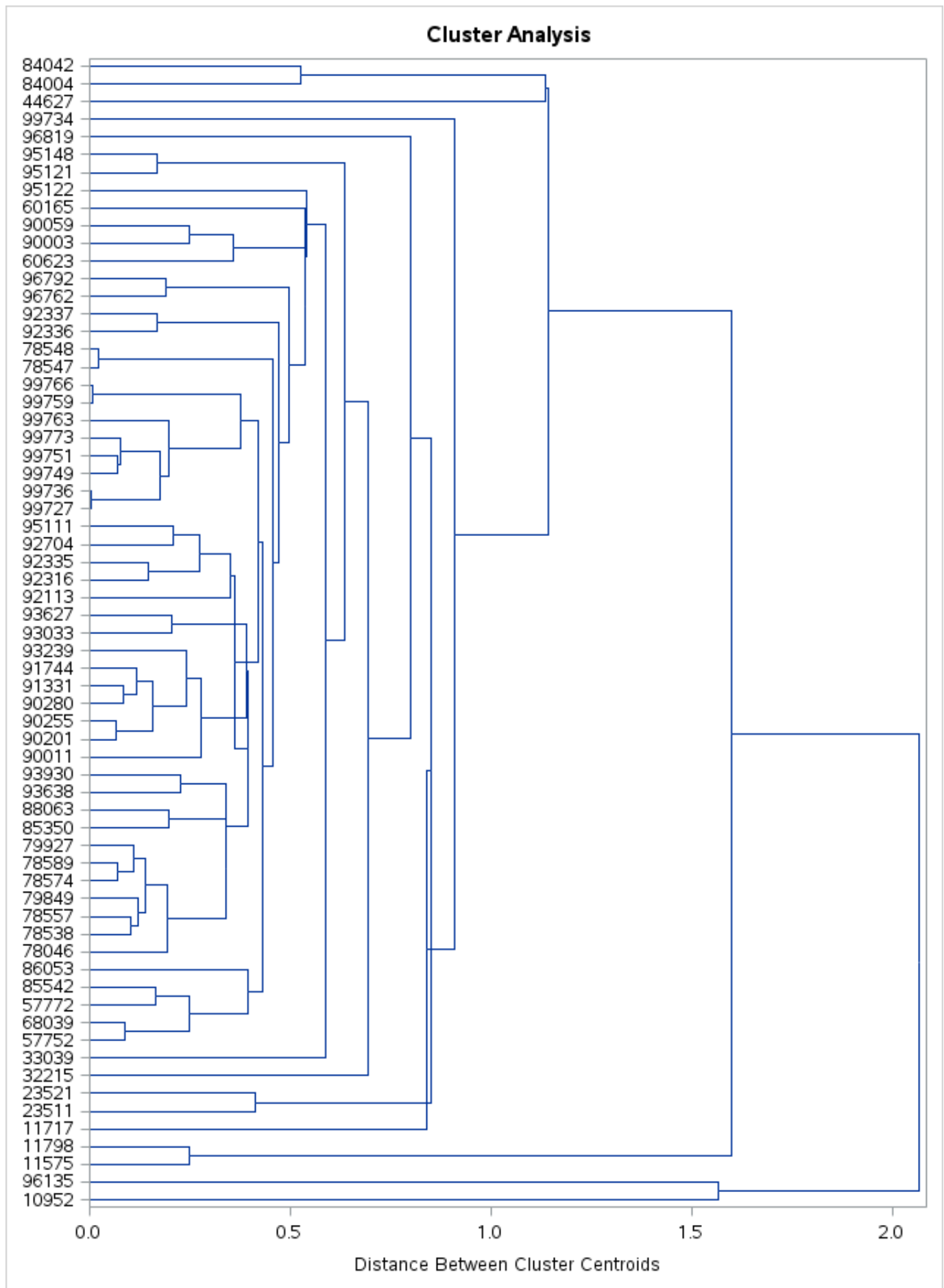
Root-Mean-Square Total-Sample Standard Deviation	1.204981
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Root-Mean-Square Distance Between Observations	6.599952
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Cluster History							
Number of Clusters	Clusters Joined		Freq	Pseudo F Statistic	Pseudo t-Squared	Norm Centroid Distance	Tie
64	99727	99736	2	66E3	.	0.0039	
63	99759	99766	2	21E3	.	0.009	
62	78547	78548	2	5803	.	0.0211	
61	90201	90255	2	850	.	0.0669	
60	78574	78589	2	552	.	0.0693	
59	99749	99751	2	451	.	0.0697	
58	CL59	99773	3	343	1.7	0.0785	
57	90280	91331	2	302	.	0.0859	
56	57752	68039	2	277	.	0.0865	
55	78538	78557	2	245	.	0.1031	
54	CL60	79927	3	206	3.4	0.1099	
53	CL57	91744	3	177	2.5	0.1188	
52	CL55	79849	3	159	1.8	0.1204	
51	CL52	CL54	6	111	4.6	0.1394	
50	92316	92335	2	107	.	0.1446	
49	CL61	CL53	5	88.1	5.8	0.1572	
48	57772	85542	2	85.9	.	0.1654	
47	92336	92337	2	84.1	.	0.1673	
46	95121	95148	2	82.8	.	0.1675	

45	CL64	CL58	5	72.5	17.0	0.1759	
44	96762	96792	2	71.5	.	0.1883	
43	78046	CL51	7	66.6	3.0	0.1945	
42	85350	88063	2	66.2	.	0.1964	
41	CL45	99763	6	63.1	3.0	0.1982	
40	93033	93627	2	63.0	.	0.2047	
39	92704	95111	2	62.9	.	0.2095	
38	93638	93930	2	62.3	.	0.2267	
37	CL49	93239	6	58.6	4.3	0.2418	
36	90003	90059	2	58.2	.	0.2466	
35	CL56	CL48	4	54.3	7.1	0.2489	
34	11575	11798	2	54.5	.	0.2492	
33	CL50	CL39	4	50.8	4.6	0.2742	
32	90011	CL37	7	48.7	3.6	0.2789	
31	CL43	CL42	9	40.8	11.9	0.341	
30	CL31	CL38	11	35.4	5.5	0.3408	
29	92113	CL33	5	34.4	2.7	0.3497	
28	60623	CL36	3	34.1	2.8	0.3566	
27	CL41	CL63	8	30.8	16.6	0.3756	
26	CL32	CL40	9	28.1	9.1	0.3891	
25	CL35	86053	5	27.8	4.7	0.3931	
24	CL30	CL26	20	20.3	15.1	0.3947	
23	CL24	CL29	25	17.8	6.3	0.3611	
22	23511	23521	2	18.5	.	0.4122	
21	CL23	CL27	33	14.4	12.2	0.4194	
20	CL25	CL21	38	12.6	7.3	0.4298	
19	CL20	CL62	40	12.5	3.1	0.4562	
18	CL19	CL47	42	12.3	3.3	0.4708	
17	CL18	CL44	44	12.1	3.5	0.4958	
16	84004	84042	2	12.9	.	0.5253	
15	CL17	CL28	47	12.1	5.9	0.5373	
14	CL15	60165	48	12.7	1.8	0.5369	
13	CL14	95122	49	13.3	1.9	0.542	
12	33039	CL13	50	14.0	2.1	0.5873	
11	CL12	CL46	52	13.9	4.9	0.6355	
10	32215	CL11	53	14.6	2.7	0.6921	
9	CL10	96819	54	15.2	3.6	0.8008	
8	CL22	CL9	56	14.6	7.6	0.8493	
7	11717	CL8	57	15.8	3.4	0.8388	
6	CL7	99734	58	17.3	3.8	0.9085	
5	44627	CL16	3	19.7	6.2	1.134	
4	CL6	CL5	61	16.7	16.0	1.1439	
3	10952	96135	2	21.8	.	1.5642	
2	CL34	CL4	63	22.0	17.2	1.5981	
1	CL3	CL2	65	.	22.0	2.0659	





The TREE Procedure  
Centroid Hierarchical Cluster Analysis

