

USPS-LR-J-182

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**THE CALCULATION OF FY2000 CAT/FAT SPLIT
FACTORS IN RESPONSE TO PRESIDING
OFFICER INFORMATION REQUEST NO. 5,
QUESTION 5 (MEEHAN)**

This Category 4 library reference contains hard copy and electronic material showing the calculation of the FY2000 CAT/FAT split factors provided in response to POIR No. 5, Question 5.

**THE CALCULATION OF FY 2000 CAT/FAT SPLIT FACTORS IN RESPONSE
TO PRESIDING OFFICER INFORMATION REQUEST NO. 5 QUESTION 5**

This library reference provides the following documentation for the calculation of CAT/FAT split factors based upon FY 2000 CCS coverage ratios.

1. **Program Documentation** – A description of the programs used to compute FY 2000 split factors based upon the PRC methodology.
2. **Program Listings** – Listings of the programs CCS.CATFAT.CURB00.CNTL, CCS.CATFAT.FOOT00.CNTL, and CCS.CATFAT.LOOP00.CNTL.
3. **Output Listings** – Listings of the outputs created by CCS.CATFAT.CURB00.CNTL, CCS.CATFAT.FOOT00.CNTL, and CCS.CATFAT.LOOP00.CNTL.
4. **Floppy Disks Containing CCS.CATFAT.CURB00.CNTL, CCS.CATFAT.FOOT00.CNTL, and CCS.CATFAT.LOOP00.CNTL.**

1. Program Documentation

The programs CCS.CATFAT.CURB00.CNTL, CCS.CATFAT.FOOT00.CNTL, and CCS.CATFAT.LOOP00.CNTL are the same as the programs CCS.CATFAT.CURB96.CNTL, CCS.CATFAT.FOOT96.CNTL, and CCS.CATFAT.LOOP96.CNTL documented in Docket No. R-97, USPS LR-H-142, except that they were modified to compute split factors based on FY 2000 CCS coverage ratios.

2. Program Listings

The following are printouts of the CCS.CATFAT.CURB00.CNTL, CCS.CATFAT.FOOT00.CNTL, and CCS.CATFAT.LOOP00.CNTL SAS statements.

```

/* CCS.CATFAT.CURB00          PRC CURB SPLIT FACTOR
/* *****
/*                               WITH CCS00 COVERAGE
/*
//SAS8 PROC ENTRY=SASHOST,                                00001900
//          PRODFIX='SAS.8',                                00002000
//          CONFIG=NULLFILE,                                00002100
//          OPTIONS='MEMSIZE=24M',                          00002200
//          WORK='300,300'                                    00002300
//***** 00002400
/* PRODUCT: MVS SAS RELEASE 8                                *** 00002500
/* DOCUMENTATION: SAS COMPANION FOR THE MVS ENVIRONMENT, V6  *** 00002600
/* FROM: SAS INSTITUTE INC., BOX 8000, CARY, NC 27512-8000 *** 00002700
//***** 00002800
//*****
//SAS8      EXEC PGM=&ENTRY,PARM='&OPTIONS',REGION=8192K
//STEPLIB   DD DISP=SHR,DSN=&PRODFIX..LIBRARY
//CONFIG    DD DISP=SHR,DSN=&PRODFIX..CNTL(BATCHXA)
//          DD DISP=SHR,DSN=&CONFIG
//SASAUTOS  DD DISP=SHR,DSN=&PRODFIX..AUTOLIB
//SASHELP   DD DISP=SHR,DSN=&PRODFIX..SASHELP
//SASMSG    DD DISP=SHR,DSN=&PRODFIX..SASMSG
//WORK      DD UNIT=SYSDA,SPACE=(CYL,(&WORK),,ROUND),
//          DCB=(RECFM=FS,DSORG=PS,LRECL=6144,BLKSIZE=6144)
//SASLOG    DD SYSOUT=*
//SASLIST   DD SYSOUT=*
//SASPARM   DD UNIT=SYSDA,SPACE=(6120,(2000,2000)),
//          DCB=(RECFM=FB,LRECL=80,BLKSIZE=400,BUFNO=1)
//SYSUDUMP  DD SYSOUT=*
//** ADD A LINE LIKE THE FOLLOWING TO CREATE A MACHINE-READABLE DUMP
//**SYSDUMP DD DSN=DUMP,UNIT=SYSDA,DISP=(NEW,CATLG),SPACE=(TRK,(20,5))
// PEND
//*-----,
//STEP100 EXEC PGM=IEFBR14
//STEP200 EXEC SAS,REGION=25000K
//IN        DD DSN=H30005.CURB.SAS,DISP=SHR
//SYSIN DD *
*****;
*** CALCULATION OF CATFAT SPLIT FACTORS. COEFFICIENTS ARE ***;
*** EXTRACTED FROM CASE 1 REGRESSION RESULTS ***;
*****;

OPTIONS LINESIZE=80 NODATE ;

*** CALCULATE SPLIT FACTORS FOR CATFAT 1989 CURBLINE ROUTES ***;

DATA I1 ; INPUT INTERCEP      ; CARDS;
      -13397.88336874

,
DATA RR1 ;INPUT      ROUTE RTY      EST      ; CARDS ;
      1      5      12888.03078692
      8      5      14573.70220311
      9      5      14848.71535919
      11     5      12119.41632183
      12     5      12550.70591966
      13     5      12075.43124190
      14     5      13525.98391603

```

19	5	14550.18858595
29	5	8433.67604307
37	5	15227.94107915
40	5	17497.53953205
43	5	12806.67920755
46	5	13487.57663052
48	5	14676.12301906
50	5	12649.20137088
51	5	14385.39889865
58	5	12741.40240965
62	5	14730.07656343
65	5	16035.71295889
66	5	13807.99089829
67	5	13659.66512275
68	5	14581.59865000
72	5	12075.61892969
77	5	12974.75492267
78	5	13965.32176510
82	5	12554.25430260
86	5	14282.68851211
87	5	13994.11084269
90	5	14663.71041418
94	5	14487.86953886
95	5	11900.06772453
99	5	15177.81698046
100	5	16035.80445792
104	5	13092.77200133
107	5	15176.33807356
109	5	14058.53028908
113	5	14782.07360446
114	5	13495.88077161
117	5	13484.28382432
118	5	13088.35639312
121	5	13641.16804492
126	5	12315.77637190
129	5	10604.37970195
133	5	15686.33559064
136	5	13997.25865183
137	5	14888.58891991
138	5	13663.76898895
143	5	13406.54896548
144	5	12681.30530681
145	5	12955.30831010
146	5	14072.79750838
152	5	13527.95369385
153	5	13306.33029798
154	5	14362.30343066
160	5	12649.58106322
161	5	14724.37026627
162	5	16291.48291214
167	5	16476.29097260
168	5	15325.89634686
169	5	9361.49791751
175	5	17185.36158268
178	5	13445.01842075
185	5	12496.65892262
188	5	15883.24087433

191	5	14190.83651084
197	5	13747.04428500
201	5	13457.69910967
204	5	14169.57218056
205	5	13495.12169953
209	5	13273.16106122
210	5	12989.54812031
213	5	14103.85140190
214	5	14691.88061940
215	5	13105.71142956
216	5	12780.43179260
218	5	12350.02794268
220	5	13659.71647154
224	5	14955.60467086
226	5	13082.06106018
228	5	13891.34530527
231	5	13549.44226213
232	5	14189.34861168
233	5	16866.99802515
239	5	2408.98748451
241	5	17245.56858238
243	5	12307.56527107
245	5	13369.98503580
254	5	12709.49176518
255	5	14239.05179429
256	5	13767.87138572
268	5	4661.02944161
272	5	13933.34896221
274	5	13711.29854286
281	5	13808.16042009
282	5	13290.32079376
283	5	13887.45217066
287	5	14019.21235929
292	5	15232.52839881
293	5	13915.01258178
299	5	15394.25612230
300	5	14353.85425492
303	5	14885.04826477
306	5	13853.46495752
309	5	14295.35182149
310	5	13875.04946596
316	5	15434.02905911
318	5	17108.86536866
322	5	13585.67393518
323	5	14539.05261481
324	5	13453.98602161
327	5	12443.40059274
337	5	10381.13422952
342	5	12880.43249062
348	5	14011.22824004
355	5	15196.13014609
364	5	20923.01003513
366	5	14524.52559563
369	5	15855.85578099
370	5	14915.50979935
375	5	12515.12438417
377	5	14126.79644769

378	5	14132.51552772
379	5	14343.58126763
386	5	13142.39139033
388	5	13911.28458188
390	5	13644.18010999
393	5	14075.49249749
394	5	14069.17849918
398	5	18006.96818558
399	5	13547.61637007
400	5	13312.14946011
401	5	13951.19080222
402	5	13558.95364107
403	5	13076.04144550
407	5	14481.46150749
408	5	13995.20079019
411	5	15287.07495450
412	5	12820.57980705
415	5	14222.68606914
417	5	11666.00582605
418	5	13443.96248061
419	5	13690.01473473
422	5	13229.42653985
424	5	13318.77646586
425	5	15955.38351991
426	5	12757.01285397
427	5	13189.57626264
428	5	14258.31951233
431	5	14174.21438977
432	5	13859.56248840
433	5	16660.54145635
438	5	13562.74163747
441	5	13330.76308066
442	5	13634.45374715
444	5	13866.57470615
445	5	14940.57238023
108	7	12802.20336764
56	8	2125.45211644
57	8	-189.83368462
250	8	-2077.03793823
421	8	0.00000000

DATA	SRR1	INPUT	ROUTE	RTY	EST;	CARDS;
			1	5	36.27407928	
			8	5	-11.76492304	
			9	5	-32.77314616	
			11	5	61.31835317	
			12	5	51.00288360	
			13	5	88.95566851	
			14	5	18.80760397	
			19	5	-17.64737975	
			29	5	182.90124122	
			37	5	-33.42548614	
			40	5	-64.24538655	
			43	5	45.97687775	
			46	5	13.21186933	
			48	5	-34.71679220	
			50	5	50.34426327	

51	5	-8.59058103
58	5	61.16236294
62	5	-27.45168864
65	5	-78.76001586
66	5	9.47957879
67	5	11.05432641
68	5	-21.79649262
72	5	74.55568925
77	5	42.99676624
78	5	6.76380086
82	5	48.26818758
86	5	-2.60563824
87	5	-0.43822386
90	5	-23.17685744
94	5	-21.77834690
95	5	54.21466465
99	5	-17.86436754
100	5	-70.12443165
104	5	41.11832058
107	5	-35.24495253
109	5	-3.70722872
113	5	-27.61012983
114	5	19.45455235
117	5	25.99597145
118	5	48.69037613
121	5	16.32825562
126	5	71.30923730
129	5	136.65722684
133	5	-74.80750468
136	5	-3.59872429
137	5	-19.78821487
138	5	19.08952343
143	5	30.49547990
144	5	33.96617157
145	5	49.96496776
146	5	-4.92793434
152	5	10.80514393
153	5	16.10001870
154	5	-9.42970561
160	5	34.21007354
161	5	-26.83723742
162	5	-84.02182725
167	5	-109.61560683
168	5	-72.80577119
169	5	151.12219198
175	5	-91.73991493
178	5	23.08974081
185	5	110.93494531
188	5	-105.46247366
191	5	-25.43658930
197	5	3.49726651
201	5	11.29761780
204	5	-3.36657814
205	5	6.96451367
209	5	12.07731841
210	5	40.57879026
213	5	-3.05380525

214	5	-14.60561603
215	5	37.60511553
216	5	37.06205568
218	5	115.81511634
220	5	11.00078665
224	5	-0.45320342
226	5	30.03196372
228	5	7.37053526
231	5	16.28313631
232	5	-4.38002104
233	5	-116.12160593
239	5	328.07244794
241	5	-118.62384894
243	5	69.31378034
245	5	44.21474973
254	5	33.21819309
255	5	1.25616437
256	5	4.24465272
268	5	363.96873927
272	5	10.49103284
274	5	7.64421794
281	5	4.76066118
282	5	19.04721961
283	5	7.11335311
287	5	23.06015478
292	5	-6.99143376
293	5	7.76653240
299	5	-25.23197272
300	5	-1.72691447
303	5	-12.55562664
306	5	-2.72258557
309	5	-9.93397482
310	5	2.44825200
316	5	-46.07344177
318	5	-100.60231691
322	5	16.19520801
323	5	-14.34984827
324	5	19.02796135
327	5	88.99574261
337	5	97.67209818
342	5	51.55404126
348	5	2.40649708
355	5	-40.69082190
364	5	-320.52921431
366	5	-34.62219744
369	5	-71.62997522
370	5	-40.02265073
375	5	51.22875033
377	5	6.07838871
378	5	8.86919061
379	5	1.15005937
386	5	35.06952479
388	5	6.14335028
390	5	18.16475526
393	5	3.79144626
394	5	-0.14477887
398	5	-115.44291391

399	5	29.76629671
400	5	24.96409516
401	5	-0.98695906
402	5	22.46195387
403	5	28.22847906
407	5	3.75238944
408	5	-4.50843446
411	5	-30.83607580
412	5	43.90589676
415	5	-3.43607737
417	5	59.20529598
418	5	18.63679747
419	5	1.06126084
422	5	27.93171272
424	5	23.78280462
425	5	-36.61578681
426	5	38.68483142
427	5	32.96885684
428	5	-6.49989355
431	5	-9.67790165
432	5	-2.48624402
433	5	-96.95706419
438	5	15.15123919
441	5	27.16151310
442	5	15.71418287
444	5	10.42799051
445	5	-32.05207556
108	7	51.66952385
56	8	536.93088594
57	8	551.02992755
250	8	591.43601096
421	8	380.21093896

DATA SRR11 ; INPUT ROUTE RTY			EST;	CARDS;
1	5		-0.19646918	
8	5		0.11520656	
9	5		0.30923323	
11	5		-0.38851723	
12	5		-0.33846331	
13	5		-0.75543291	
14	5		-0.13506673	
19	5		0.25577958	
29	5		-1.44821063	
37	5		0.29581507	
40	5		0.37498841	
43	5		-0.30399811	
46	5		-0.04510418	
48	5		0.45789252	
50	5		-0.36831880	
51	5		0.19602444	
58	5		-0.53161890	
62	5		0.52810919	
65	5		0.90294776	
66	5		0.00962909	
67	5		-0.04290014	
68	5		0.28672517	
72	5		-0.61731377	

77	5	-0.34338329
78	5	-0.00633032
82	5	-0.32694263
86	5	0.04974347
87	5	0.04490553
90	5	0.23964129
94	5	0.29581630
95	5	-0.35466677
99	5	0.12105681
100	5	0.83048301
104	5	-0.18167843
107	5	0.41397754
109	5	0.10150735
113	5	0.31239437
114	5	-0.08000380
117	5	-0.10191034
118	5	-0.21339933
121	5	-0.08206093
126	5	-0.54917760
129	5	-1.14870130
133	5	1.03076759
136	5	0.12322645
137	5	0.22867967
138	5	-0.12495337
143	5	-0.21055401
144	5	-0.14042291
145	5	-0.39758353
146	5	0.11516914
152	5	-0.03631508
153	5	-0.07213098
154	5	0.08914818
160	5	-0.17337209
161	5	0.27061869
162	5	0.77933043
167	5	1.30836142
168	5	0.92689287
169	5	-1.13522089
175	5	0.75737979
178	5	-0.17674581
185	5	-1.37481564
188	5	1.32614127
191	5	0.38354008
197	5	0.03018136
201	5	-0.02713273
204	5	0.06239859
205	5	0.00331541
209	5	-0.05169759
210	5	-0.26998555
213	5	0.08720224
214	5	0.12253051
215	5	-0.25598855
216	5	-0.19462933
218	5	-0.96733265
220	5	-0.02595785
224	5	0.06647494
226	5	-0.13697546
228	5	-0.04354840

231	5	-0.04008381
232	5	0.10246596
233	5	1.14036385
239	5	-2.06639894
241	5	1.29446248
243	5	-0.60545598
245	5	-0.38264772
254	5	-0.18557159
255	5	0.02599017
256	5	0.00548372
268	5	-3.14877829
272	5	-0.06459992
274	5	-0.00915277
281	5	0.00576008
282	5	-0.12370414
283	5	0.06422518
287	5	-0.15625458
292	5	0.06698510
293	5	-0.00993991
299	5	0.18437817
300	5	0.13105342
303	5	0.12687586
306	5	0.18358726
309	5	0.16566080
310	5	0.02423904
316	5	0.42254592
318	5	0.93921900
322	5	-0.09463200
323	5	0.09088203
324	5	-0.23687591
327	5	-0.74672370
337	5	-0.47512222
342	5	-0.39219219
348	5	0.06116765
355	5	0.36910247
364	5	3.91005123
366	5	0.49499250
369	5	0.78580749
370	5	0.51313763
375	5	-0.43022648
377	5	-0.00789564
378	5	-0.03097029
379	5	0.02996509
386	5	-0.23360055
388	5	-0.03449155
390	5	-0.12868517
393	5	0.02821224
394	5	0.02461344
398	5	0.86641118
399	5	-0.17344400
400	5	-0.12128876
401	5	0.04506873
402	5	-0.12766344
403	5	-0.17698401
407	5	0.01370601
408	5	0.08511009
411	5	0.28543903

412	5	-0.32317333
415	5	0.06460310
417	5	-0.28644748
418	5	-0.05370428
419	5	0.03589516
422	5	-0.16273197
424	5	-0.15929052
425	5	0.25648758
426	5	-0.20645056
427	5	-0.18220393
428	5	0.10607217
431	5	0.16378067
432	5	0.07656544
433	5	0.89123575
438	5	-0.10513981
441	5	-0.17549635
442	5	-0.05632706
444	5	0.00364506
445	5	0.36399784
108	7	-0.41238095
56	8	-5.73347327
57	8	-5.23447108
250	8	-4.85084935
421	8	-2.50735278

;
 DATA I2 ; INPUT INTERCEP ; CARDS;
 2414.68518945

;
 DATA RR2 ;INPUT ROUTE RTY EST ; CARDS;

1	5	-3279.04339914
8	5	-1578.01712230
9	5	-1110.31050756
11	5	-3686.97435874
12	5	-2978.19382366
13	5	-4048.70932492
14	5	-2308.14421472
19	5	-1479.99466098
29	5	-7212.17453862
37	5	-949.36410818
40	5	1443.79648183
43	5	-2667.31280316
46	5	-1984.23713119
48	5	-861.43945525
50	5	-3463.43255854
51	5	-1622.56017524
58	5	-2803.43777176
62	5	-795.39578531
65	5	15.68507257
66	5	-2220.26259648
67	5	-2341.42837773
68	5	-1463.00394146
72	5	-3927.00164610
77	5	-3062.72629795
78	5	-2048.00681939
82	5	-3211.85106643
86	5	-1573.02185198
87	5	-2216.20925619

90	5	-1436.88059100
94	5	-1578.46375950
95	5	-4127.21727770
99	5	-905.81376443
100	5	7.55096313
104	5	-2740.09608722
107	5	-855.43251910
109	5	-2026.07912891
113	5	-675.27650168
114	5	-2479.22732523
117	5	-2278.86711572
118	5	-2744.51169537
121	5	-1879.10633970
126	5	-3743.41041014
129	5	-5495.37352542
133	5	-356.63164771
136	5	-1534.98991083
137	5	-1298.89066490
138	5	-2354.31353192
143	5	-2601.41010834
144	5	-3348.62580228
145	5	-3074.87493698
146	5	-1479.71030676
152	5	-2060.29354577
153	5	-2668.55068504
154	5	-1633.63344929
160	5	-3468.01529981
161	5	-1418.07407762
162	5	2.45775304
167	5	491.79837174
168	5	-717.07089155
169	5	-6700.65844493
175	5	1715.77529244
178	5	-2518.78162593
185	5	-3554.94065667
188	5	-168.35870496
191	5	-1334.63583807
197	5	-1782.83800190
201	5	-2413.34064876
204	5	-1962.30535458
205	5	-2273.73625058
209	5	-2596.81791359
210	5	-2837.15344640
213	5	-1964.30151407
214	5	-1424.34184914
215	5	-3071.20221603
216	5	-3338.41062926
218	5	-3889.16357184
220	5	-2476.89526521
224	5	-930.84159522
226	5	-2921.47886139
228	5	-2346.09914847
231	5	-1892.86142033
232	5	-1811.26539586
233	5	859.03895142
239	5	-13734.08758327
241	5	1182.74897629

243	5	-3443.71192315
245	5	-2655.29287075
254	5	-3128.21020151
255	5	-1740.58226988
256	5	-1717.78359418
268	5	-10973.78595928
272	5	-2091.08953171
274	5	-2287.14630175
281	5	-2276.51875031
282	5	-2859.71400799
283	5	-2201.09573170
287	5	-1973.96664513
292	5	-636.66326268
293	5	-2099.40179533
299	5	-625.19889904
300	5	-1696.10642648
303	5	-1151.03050801
306	5	-2265.13703102
309	5	-1704.00383506
310	5	-2126.60253168
316	5	-547.25401762
318	5	1093.83734013
322	5	-2455.50853961
323	5	-1447.41464352
324	5	-2657.43434662
327	5	-3634.86306165
337	5	-5651.62035933
342	5	-3219.32073626
348	5	-1509.56397731
355	5	-853.83053518
364	5	4838.57216313
366	5	-974.80271635
369	5	299.28905086
370	5	-641.47834911
375	5	-3036.28140543
377	5	-1363.02150403
378	5	-1339.62352881
379	5	-1128.31544187
386	5	-2931.72958540
388	5	-2151.20288927
390	5	-2429.94086575
393	5	-1951.25596208
394	5	-1990.86771946
398	5	1935.08940252
399	5	-2412.57257125
400	5	-2735.63160344
401	5	-1998.88165753
402	5	-2473.02628798
403	5	-3037.72252302
407	5	-1543.09387564
408	5	-1471.83362515
411	5	-711.02772247
412	5	-3321.31068243
415	5	-1744.05683897
417	5	-4489.08614950
418	5	-2646.60916641
419	5	-2085.77103967

422	5	-2774.53837342
424	5	-2222.10719897
425	5	501.29887467
426	5	-2735.91186718
427	5	-2319.32453435
428	5	-1219.05558406
431	5	-1330.56553668
432	5	-1600.51474565
433	5	1008.21925213
438	5	-2528.85006414
441	5	-2620.27364717
442	5	-2309.49222609
444	5	-1622.76909224
445	5	-581.26765231
108	7	-2483.11620572
56	8	-1268.56494485
57	8	-2453.79538899
250	8	-3713.86700754
421	8	0.00000000

DATA SRR2 ; INPUT ROUTE RTY		EST;	CARDS;
1	5	48.82481345	
8	5	-3.42659168	
9	5	-28.52648989	
11	5	61.69461246	
12	5	41.41281246	
13	5	101.94509262	
14	5	19.93647333	
19	5	-8.40345662	
29	5	177.08918883	
37	5	-21.50582959	
40	5	-58.66654228	
43	5	35.78341408	
46	5	2.93191855	
48	5	-46.84140366	
50	5	60.87683693	
51	5	-1.59919129	
58	5	50.19846238	
62	5	-41.30180218	
65	5	-71.53893127	
66	5	17.45768221	
67	5	16.08350459	
68	5	-12.20441410	
72	5	81.55032423	
77	5	50.94958468	
78	5	11.78821158	
82	5	47.25477729	
86	5	-1.27715787	
87	5	12.97615281	
90	5	-13.71334151	
94	5	-12.47369060	
95	5	60.85860033	
99	5	-11.70391908	
100	5	-62.14632823	
104	5	41.95660523	
107	5	-27.32546890	
109	5	6.91643051	

113	5	-38.97010611
114	5	23.68998172
117	5	25.05187850
118	5	49.52866077
121	5	6.98952535
126	5	80.01407348
129	5	147.60423560
133	5	-63.54791005
136	5	-13.91428621
137	5	-7.83615429
138	5	28.51308670
143	5	37.48686963
144	5	38.72437366
145	5	59.20889090
146	5	-14.87162470
152	5	5.15697795
153	5	20.25783369
154	5	-5.09365520
160	5	41.76252887
161	5	-14.59184361
162	5	-66.96753919
167	5	-101.27874869
168	5	-61.54617656
169	5	159.28721726
175	5	-101.99852500
178	5	28.88010437
185	5	122.03059132
188	5	-94.36682765
191	5	-39.28670283
197	5	-10.10302248
201	5	13.30023102
204	5	6.19207066
205	5	6.24130225
209	5	13.82955635
210	5	40.60081467
213	5	8.34981703
214	5	-6.16780975
215	5	49.78221230
216	5	44.46753103
218	5	131.98325790
220	5	19.37876033
224	5	3.55318621
226	5	34.76282723
228	5	29.76278220
231	5	3.89692437
232	5	2.46849885
233	5	-109.13021619
239	5	336.73632884
241	5	-107.27944142
243	5	67.51733358
245	5	53.80276759
254	5	34.34444157
255	5	5.87933888
256	5	-4.00228304
268	5	356.89667480
272	5	18.05006858
274	5	13.01551314

281	5	15.95767138
282	5	32.22803399
283	5	20.33576619
287	5	28.46316286
292	5	-5.01652347
293	5	12.77731772
299	5	-20.16146957
300	5	5.87153115
303	5	-7.47969085
306	5	9.51306628
309	5	-1.81107229
310	5	10.99373966
316	5	-41.06186447
318	5	-93.45827902
322	5	21.32667650
323	5	-9.35930876
324	5	35.87625741
327	5	99.53830739
337	5	103.00107176
342	5	62.50105000
348	5	-7.81479871
355	5	-33.09237627
364	5	-307.06398071
366	5	-50.39039302
369	5	-81.19459597
370	5	-51.40210346
375	5	41.86145909
377	5	-3.08140009
378	5	0.15345311
379	5	-8.00577724
386	5	45.77183107
388	5	14.97016934
390	5	28.86706154
393	5	11.18263639
394	5	8.70714955
398	5	-107.34402442
399	5	33.88248234
400	5	32.76747072
401	5	4.17818249
402	5	29.69577862
403	5	40.69356479
407	5	8.88261041
408	5	-15.13806426
411	5	-25.13616510
412	5	57.01014989
415	5	0.69368159
417	5	67.21110579
418	5	26.62777905
419	5	0.47589930
422	5	34.94058317
424	5	13.91265284
425	5	-45.23772497
426	5	30.61460659
427	5	22.65459816
428	5	-17.09299602
431	5	-22.03091968
432	5	-14.25067022

433	5	-102.22349664
438	5	26.50142723
441	5	32.38028454
442	5	18.90339640
444	5	-0.05671215
445	5	-42.55357327
108	7	32.07416168
56	8	-9.05487395
57	8	26.57953346
250	8	88.94149630
421	8	-47.56845622

```

;
DATA SRR22 ; INPUT ROUTE RTY      EST;      CARDS;
1 5 -0.30326621
8 5 0.06561171
9 5 0.27961503
11 5 -0.39481929
12 5 -0.25836252
13 5 -0.88559520
14 5 -0.14602713
19 5 0.16105716
29 5 -1.39770146
37 5 0.20212100
40 5 0.34388748
43 5 -0.22874278
46 5 0.03109841
48 5 0.58882365
50 5 -0.45744086
51 5 0.13601794
58 5 -0.42152754
62 5 0.69198621
65 5 0.84252896
66 5 -0.06139539
67 5 -0.07514685
68 5 0.19147099
72 5 -0.67923437
77 5 -0.41125043
78 5 -0.03641203
82 5 -0.32254248
86 5 0.04068632
87 5 -0.06420345
90 5 0.16440068
94 5 0.21340042
95 5 -0.40412201
99 5 0.08722033
100 5 0.75945853
104 5 -0.18822862
107 5 0.34517514
109 5 0.00114636
113 5 0.40218438
114 5 -0.10642141
117 5 -0.09855107
118 5 -0.21994952
121 5 -0.00831014
126 5 -0.62355333
129 5 -1.24981230
133 5 0.89832211

```

136	5	0.21619434
137	5	0.13715085
138	5	-0.22898884
143	5	-0.27056050
144	5	-0.16552437
145	5	-0.49230596
146	5	0.20813703
152	5	-0.00178165
153	5	-0.09760257
154	5	0.06449176
160	5	-0.21831733
161	5	0.16106369
162	5	0.63163935
167	5	1.21117411
168	5	0.79444740
169	5	-1.19968723
175	5	0.83273667
178	5	-0.22942588
185	5	-1.49919639
188	5	1.20176051
191	5	0.54741710
197	5	0.19066764
201	5	-0.04261833
204	5	-0.00642020
205	5	0.00504220
209	5	-0.06385856
210	5	-0.26557155
213	5	-0.03452665
214	5	0.06620172
215	5	-0.35398715
216	5	-0.23773706
218	5	-1.11502373
220	5	-0.07815080
224	5	0.01801789
226	5	-0.16513353
228	5	-0.33046634
231	5	0.06239408
232	5	0.04260678
233	5	1.08035736
239	5	-2.12106387
241	5	1.17008173
243	5	-0.59391169
245	5	-0.48683108
254	5	-0.19543936
255	5	-0.00464463
256	5	0.05642583
268	5	-3.07950709
272	5	-0.12930875
274	5	-0.04635999
281	5	-0.10401995
282	5	-0.24662735
283	5	-0.08759106
287	5	-0.19499152
292	5	0.05153332
293	5	-0.03979882
299	5	0.15451925
300	5	0.07242285

303	5	0.09910951
306	5	0.06506003
309	5	0.08063233
310	5	-0.06878608
316	5	0.38693128
318	5	0.87867800
322	5	-0.12239835
323	5	0.05660793
324	5	-0.46603380
327	5	-0.84783470
337	5	-0.50614221
342	5	-0.49330319
348	5	0.14895365
355	5	0.31047191
364	5	3.74904693
366	5	0.68948296
369	5	0.87333137
370	5	0.63703095
375	5	-0.34799862
377	5	0.05585582
378	5	0.02375201
379	5	0.09025562
386	5	-0.33953203
388	5	-0.10977108
390	5	-0.23461665
393	5	-0.03298216
394	5	-0.05159238
398	5	0.80528388
399	5	-0.20089902
400	5	-0.18370961
401	5	-0.00095752
402	5	-0.18480034
403	5	-0.30204598
407	5	-0.01615290
408	5	0.16537957
411	5	0.24352267
412	5	-0.44856962
415	5	0.03818550
417	5	-0.33158093
418	5	-0.10887490
419	5	0.03637267
422	5	-0.22434269
424	5	-0.07150452
425	5	0.30734424
426	5	-0.15655216
427	5	-0.09626849
428	5	0.18824105
431	5	0.28539235
432	5	0.17291289
433	5	0.93377902
438	5	-0.21762163
441	5	-0.22231070
442	5	-0.07481027
444	5	0.08714389
445	5	0.45696573
108	7	-0.23994586
56	8	0.23657825

```

57 8 -0.18267693
250 8 -0.42518486
421 8 0.36532563
;
DATA IN (KEEP=CSTOPS TESTNUM RTY); SET IN.CURB;
  ARRAY STOP(I) STOP1-STOP5;
  ARRAY RTIME(I) RTIME1-RTIME5;
  S1=SUM(OF RTIME1-RTIME5); IF S1 NE .;
  S2=SUM(OF STOP1-STOP5); IF S2 NE .;
DATA IN (DROP=TESTNUM); SET IN; ROUTE=TESTNUM;

PROC SORT DATA=IN; BY ROUTE RTY;
PROC SORT DATA=SRR1; BY ROUTE RTY;
PROC SORT DATA=SRR2; BY ROUTE RTY;
PROC SORT DATA=SRR11; BY ROUTE RTY;
PROC SORT DATA=SRR22; BY ROUTE RTY;

DATA SRR1; MERGE SRR1 IN; BY ROUTE RTY; * FACTORS FROM CCS.KEYS96;
  STOPSD=.9413*CSTOPS*EST; * SDR WGTD COVERAGE;
  STOPMD=.9854*CSTOPS*EST; * MDR WGTD COVERAGE;
  STOPBA=.8964*CSTOPS*EST; * BAM WGTD COVERAGE;
  B1EST=EST;
  STSD=.9413*CSTOPS;
  STMD=.9854*CSTOPS;
  STBA=.8964*CSTOPS;

DATA SRR11; MERGE SRR11 IN; BY ROUTE RTY;
  STOPSDQ=EST*(.9413*CSTOPS)**2;
  STOPMDQ=EST*(.9854*CSTOPS)**2;
  STOPBAQ=EST*(.8964*CSTOPS)**2;
  STSDQ=EST*(.9413*CSTOPS);
  STMDQ=EST*(.9854*CSTOPS);
  STBAQ=EST*(.8964*CSTOPS);

PROC MEANS NOPRINT DATA=RR1;
  VAR EST; OUTPUT OUT=ERR1 MEAN=SEST;

PROC MEANS NOPRINT DATA=SRR1;
  VAR STOPSD STOPMD STOPBA B1EST STSD STMD STBA;
  OUTPUT OUT=IN1 MEAN= SDSUM MDSUM BASUM B1SUM STSDM STMDM STBAM;

PROC MEANS NOPRINT DATA=SRR11;
  VAR STOPSDQ STOPMDQ STOPBAQ STSDQ STMDQ STBAQ;
  OUTPUT OUT=IN11 MEAN= SDSUMQ MDSUMQ BASUMQ STSDQM STMDQM STBAQM;

DATA EL1; MERGE I1 ERR1 IN1 IN11;
  N1 = SDSUM+2*SDSUMQ;
  D1 = INTERCEP+SEST+SDSUM+SDSUMQ; ELASSDR=N1/D1;
  N2 = MDSUM+2*MDSUMQ;
  D2 = INTERCEP+SEST+MDSUM+MDSUMQ; ELASMDR=N2/D2;
  N3 = BASUM+2*BASUMQ;
  D3 = INTERCEP+SEST+BASUM+BASUMQ; ELASBAM=N3/D3;

PROC PRINT DATA=EL1 SPLIT='*';
VAR D1 D2 D3 ELASSDR ELASMDR ELASBAM ;
FORMAT ELASSDR ELASMDR ELASBAM 8.6;

```

```
LABEL ELASSDR='ELASTICITY*AT SDR COVERAGE';  
LABEL ELASMDR='ELASTICITY*AT MDR COVERAGE';  
LABEL ELASBAM='ELASTICITY*AT BAM COVERAGE';  
TITLE1 'PRC R90 MODEL WITH CCS00 COVERAGE';  
TITLE2 'ELASTICITIES FOR CURB DATA';
```



```

/** CCS.CATFAT.FOOT00          PRC FOOT SPLIT FACTOR
/** *****
/**                               WITH CCS00 COVERAGE
/** *****
//SAS8  PROC ENTRY=SASHOST,                                00001900
//          PRODFIX='SAS.V8',                                00002000
//          CONFIG=NULLFILE,                                00002100
//          OPTIONS='MEMSIZE=24M',                            00002200
//          WORK='300,300'                                    00002300
// ***** 00002400
/** PRODUCT: MVS SAS RELEASE 8                                *** 00002500
/** DOCUMENTATION: SAS COMPANION FOR THE MVS ENVIRONMENT, V6  *** 00002600
/** FROM: SAS INSTITUTE INC., BOX 8000, CARY, NC 27512-8000 *** 00002700
// ***** 00002800
// *****
//SAS8  EXEC PGM=&ENTRY,PARM='&OPTIONS',REGION=8192K
//STEPLIB DD DISP=SHR,DSN=&PRODFIX..LIBRARY
//CONFIG DD DISP=SHR,DSN=&PRODFIX..CNTL(BATCHXA)
//          DD DISP=SHR,DSN=&CONFIG
//SASAUTOS DD DISP=SHR,DSN=&PRODFIX..AUTOLIB
//SASHELP DD DISP=SHR,DSN=&PRODFIX..SASHELP
//SASMSG DD DISP=SHR,DSN=&PRODFIX..SASMSG
//WORK DD UNIT=SYSDA,SPACE=(CYL,(&WORK),,,ROUND),
//          DCB=(RECFM=FS,DSORG=PS,LRECL=6144,BLKSIZE=6144)
//SASLOG DD SYSOUT=*
//SASLIST DD SYSOUT=*
//SASPARM DD UNIT=SYSDA,SPACE=(6120,(2000,2000)),
//          DCB=(RECFM=FB,LRECL=80,BLKSIZE=400,BUFNO=1)
//SYSUDUMP DD SYSOUT=*
/** ** ADD A LINE LIKE THE FOLLOWING TO CREATE A MACHINE-READABLE DUMP
/** **SYSDUMP DD DSN=DUMP,UNIT=SYSDA,DISP=(NEW,CATLG),SPACE=(TRK,(20,5))
// PEND
// *-----,
//STEP100 EXEC PGM=IEFBR14
//STEP200 EXEC SAS,REGION=25000K
//IN DD DSN=H30005.FOOT.SAS,DISP=SHR
// *
//SYSIN DD *
*****;
*** CALCULATION OF CATFAT SPLIT FACTORS. COEFFICIENTS ARE ***;
*** EXTRACTED FROM CASE 1 REGRESSION RESULTS ***;
*****;

OPTIONS LINESIZE=80 NODATE ;

*** CALCULATE SPLIT FACTORS FOR CATFAT 1989 FOOT ROUTE DATA ***;

DATA I1 ; INPUT INTERCEP ; CARDS;
              6637.48220187
;
DATA RR1 ; INPUT ROUTE RTY EST ; CARDS;
              30 1 -7535.85203075
              31 1 -7828.55393470
              192 1 -1824.41651058
              349 1 -8201.92238251
              350 1 -2504.91591324

```

351	1	-1189.39935449
75	2	-2350.93219643
92	2	-5754.73219986
20	3	-9599.28621994
21	3	-7891.72654361
25	3	-6613.76870358
26	3	-7857.54107624
27	3	-5199.45312953
28	3	-5567.86995535
34	3	-5271.69207742
36	3	-4768.82547205
42	3	-9146.30886636
52	3	-2754.08591454
54	3	-2496.33131319
63	3	-13754.81011486
103	3	-5527.23007571
112	3	-3723.83513528
120	3	-1568.33072923
122	3	-3496.65457302
123	3	-6274.50669363
128	3	-6349.54391747
131	3	-5346.41919717
147	3	-6223.44313175
151	3	-7071.46349044
159	3	-5539.02009934
199	3	-5563.97578678
203	3	-5247.18759718
207	3	-8078.17446867
219	3	-8831.94089644
223	3	-6201.46338600
247	3	-6979.35835705
248	3	-7333.77639795
251	3	-7706.67787740
257	3	-6062.78082418
260	3	-6852.51803733
262	3	-5305.68260154
263	3	-5841.96053046
264	3	-5642.65927555
265	3	-4208.96053053
266	3	-10276.79443658
267	3	-6810.45879771
284	3	730.11000742
289	3	-10685.66473216
290	3	-7964.29268184
307	3	-5849.85845498
311	3	-10529.56369395
314	3	-6792.54244806
319	3	2199.28617456
328	3	528.46861146
333	3	-6117.83557728
334	3	3205.51856572
335	3	-10993.56089690
336	3	-5239.58310155
341	3	-1440.21864748
353	3	-6088.60900825
391	3	-5519.57991630
392	3	747.71924595

414	3	-6964.92727005
71	4	-14922.06649993
74	4	-9622.44316953
102	4	-30347.07492942
124	4	-12638.12117014
127	6	-5918.81723553
172	6	-5210.74990328
230	6	-4068.72054140
249	6	18418.01564581
271	6	-12196.69759569
301	6	-6964.94579625
332	6	-9825.48386506
410	6	-9082.42209250
76	7	-6462.37943548
101	7	0.00000000

DATA	SRRL;	INPUT	ROUTE	RTY	EST;	CARDS;
30		1			142.55350563	
31		1			167.62744442	
192		1			-389.36316547	
349		1			266.67620244	
350		1			-350.23345512	
351		1			-366.74300356	
75		2			-581.36250083	
92		2			-206.41250063	
20		3			153.12475881	
21		3			152.57955183	
25		3			20.79234853	
26		3			278.29701205	
27		3			-46.95939400	
28		3			-165.32018734	
34		3			-28.54480926	
36		3			-144.30924350	
42		3			167.36824028	
52		3			-303.73601259	
54		3			-75.51412378	
63		3			264.37397398	
103		3			24.62094354	
112		3			-33.12746977	
120		3			-107.14643075	
122		3			-104.18850397	
123		3			16.01615829	
128		3			32.86393112	
131		3			14.68556552	
147		3			-148.07540138	
151		3			94.82812998	
159		3			-32.83065866	
199		3			36.93884906	
203		3			-13.74611663	
207		3			288.91137653	
219		3			161.60086077	
223		3			54.92297096	
247		3			52.42907633	
248		3			81.74748887	
251		3			148.47649914	
257		3			31.80548198	
260		3			41.77188904	

262	3	-160.80613962
263	3	-137.07082476
264	3	-69.83945314
265	3	-515.32082474
266	3	595.81810169
267	3	52.18962232
284	3	-464.50019973
289	3	506.99321467
290	3	157.46591872
307	3	21.70749604
311	3	276.28001611
314	3	31.44437182
319	3	-179.24093839
328	3	-269.47973655
333	3	-14.21825589
334	3	-925.63608988
335	3	242.21655746
336	3	-30.67394371
341	3	-181.75630163
353	3	-2.73211331
391	3	9.13363235
392	3	-138.60428105
414	3	63.97411452
71	4	1136.11147747
74	4	907.42493874
102	4	925.07381609
124	4	519.69272718
127	6	-20.33675033
172	6	-171.85287699
230	6	-79.96580259
249	6	-1081.24829772
271	6	393.59857076
301	6	62.88145285
332	6	147.94928758
410	6	163.20907095
76	7	-207.13438682
101	7	-202.35474259

DATA SRR11; INPUT ROUTE RTY		EST;	CARDS;
30	1	-3.31238159	
31	1	-3.32371875	
192	1	9.53351367	
349	1	-6.90744022	
350	1	9.32005060	
351	1	7.15380635	
75	2	21.93750003	
92	2	18.21250004	
20	3	-1.29025474	
21	3	-2.30595841	
25	3	-0.00553550	
26	3	-7.37263933	
27	3	0.81627114	
28	3	7.55082192	
34	3	0.32008868	
36	3	4.25649349	
42	3	-1.77307812	
52	3	9.39102153	

54	3	0.80986499
63	3	-1.88141054
103	3	-0.02600846
112	3	0.31271542
120	3	0.92155890
122	3	1.54753960
123	3	-0.14698284
128	3	-0.19797915
131	3	-0.03482136
147	3	20.19645987
151	3	-2.13123800
159	3	0.62818397
199	3	-0.11480049
203	3	0.20826159
207	3	-9.35920143
219	3	-1.47766077
223	3	-0.37584441
247	3	-0.42650477
248	3	-0.90133915
251	3	-1.95431617
257	3	-0.14828642
260	3	-0.70260091
262	3	6.28051146
263	3	8.58330792
264	3	1.99257452
265	3	30.95830792
266	3	-21.61029314
267	3	-0.35114304
284	3	8.84753023
289	3	-12.21804546
290	3	-2.40846205
307	3	-0.04434523
311	3	-3.53188326
314	3	-0.07656556
319	3	1.15856798
328	3	3.23574482
333	3	0.32541551
334	3	21.87342797
335	3	-2.91679547
336	3	0.31282446
341	3	2.11632484
353	3	0.18696474
391	3	0.01780410
392	3	0.87819863
414	3	-0.45736972
71	4	-37.29282504
74	4	-62.40798391
102	4	-8.05904442
124	4	-9.87347047
127	6	0.70140102
172	6	8.89315936
230	6	1.16611519
249	6	12.16058242
271	6	-5.44191864
301	6	-0.32874865
332	6	-1.17421039
410	6	-1.64588273

76 7 51.15217380
101 7 2.26383399

;
DATA I2 (DROP=X); INPUT INTERCEP ; CARDS;
4864.07512090

;
DATA RR2 ; INPUT ROUTE RTY EST ; CARDS;
30 1 -4660.87914100
31 1 -9315.54996609
192 1 -1609.47771833
349 1 -5326.94949275
350 1 -5285.98320912
351 1 -3335.56548761
75 2 -5748.59971105
92 2 -5908.54431521
20 3 -7388.69281723
21 3 -5944.99396281
25 3 -4693.55899186
26 3 -6766.50640049
27 3 -4100.71122465
28 3 -4639.19581054
34 3 -3688.80048708
36 3 -3413.00151484
42 3 -7639.60082916
52 3 -425.99748690
54 3 284.65162479
63 3 -12366.77892026
103 3 -4098.88382076
112 3 -2237.90675879
120 3 -533.05000039
122 3 -2433.51831064
123 3 -4282.00637096
128 3 -4922.86653623
131 3 -3839.71115998
147 3 -4818.57512088
151 3 -5705.21464482
159 3 -3796.71639362
199 3 -3163.09256747
203 3 -3725.12371080
207 3 -4753.27966639
219 3 -7787.33805083
223 3 -4920.39141660
247 3 -4741.27964623
248 3 -6113.76443952
251 3 -6335.66026800
257 3 -5120.15467486
260 3 -4316.92380508
262 3 -2186.25902898
263 3 -3709.57512091
264 3 -3171.96985773
265 3 -2076.57512098
266 3 -7334.87684505
267 3 -5430.88504416
284 3 2336.16372627
289 3 -9323.46526152
290 3 -6541.86804628
307 3 -4470.00247475

311	3	-9253.12545977
314	3	-5403.43604451
319	3	3595.69143086
328	3	1985.64849659
333	3	-5101.55551386
334	3	3364.91603932
335	3	-9949.63688694
336	3	-4392.86324099
341	3	797.23574536
353	3	-4679.35925316
391	3	-4055.89140880
392	3	2138.53517271
414	3	-4673.32051663
71	4	-4860.49218251
74	4	-4538.24573700
102	4	-21574.55260013
124	4	-5432.55467596
127	6	-5505.89330263
172	6	-3973.82420419
230	6	-4361.85544322
249	6	18538.47846801
271	6	-7983.71107544
301	6	-7057.02614406
332	6	-9952.46051192
410	6	-7239.94432969
76	7	-4645.07512090
101	7	0.00000000

DATA SRR2 ;	INPUT ROUTE RTY	EST ;	CARDS;
	30 1	15.58082077	
	31 1	564.63806114	
	192 1	-193.40909091	
	349 1	139.70351759	
	350 1	115.47010449	
	351 1	-79.84313102	
	75 2	210.86612022	
	92 2	393.25592417	
	20 3	136.16107844	
	21 3	141.59464319	
	25 3	11.11827957	
	26 3	377.12954186	
	27 3	-2.94037457	
	28 3	-18.24425288	
	34 3	-14.58983855	
	36 3	-85.20020534	
	42 3	183.79157741	
	52 3	-363.35489834	
	54 3	-109.32584502	
	63 3	279.80016397	
	103 3	41.93437589	
	112 3	-22.94912307	
	120 3	-81.63816935	
	122 3	-63.64116965	
	123 3	3.75312500	
	128 3	50.00859768	
	131 3	31.10890264	
	147 3	55.33333332	

151	3	160.77185953
159	3	-26.62478697
199	3	19.74166051
203	3	-2.11757514
207	3	76.44642858
219	3	196.37131145
223	3	78.11558889
247	3	34.72561960
248	3	115.44313336
251	3	178.51142688
257	3	65.00816551
260	3	-24.60526316
262	3	-344.63793103
263	3	-205.25000000
264	3	-133.27192983
265	3	-583.49999998
266	3	424.63793104
267	3	70.32360000
284	3	-451.87513339
289	3	556.69847270
290	3	184.91010566
307	3	32.73613978
311	3	309.29800519
314	3	46.75231060
319	3	-167.82875511
328	3	-252.81961815
333	3	39.03377843
334	3	-784.33422478
335	3	279.37745842
336	3	2.87499918
341	3	-198.99940262
353	3	17.73771350
391	3	19.06312042
392	3	-127.71303176
414	3	43.62365509
71	4	4.16508689
74	4	-92.72511849
102	4	661.10534971
124	4	79.57596328
127	6	119.62587412
172	6	-35.28038240
230	6	32.51807434
249	6	-1002.11119583
271	6	249.82289753
301	6	140.92051278
332	6	226.44246711
410	6	162.57999399
76	7	-71.50000000
101	7	-115.76417217

DATA SRR22 ; INPUT ROUTE RTY

30	1	0.44932998
31	1	-14.77254257
192	1	4.07792208
349	1	-3.14572864
350	1	-2.12877322
351	1	2.16752844

EST ; CARDS;

75	2	-7.39617486
92	2	-24.73459716
20	3	-1.11621517
21	3	-2.10180420
25	3	0.15053763
26	3	-10.66508689
27	3	0.15084788
28	3	1.49712644
34	3	0.11563748
36	3	2.40396462
42	3	-1.98736412
52	3	11.04436229
54	3	1.09788291
63	3	-2.01754426
103	3	-0.21549529
112	3	0.23559369
120	3	0.71788357
122	3	1.01472926
123	3	0.04687500
128	3	-0.38299278
131	3	-0.24910736
147	3	-3.16666667
151	3	-4.51920811
159	3	0.50695120
199	3	0.00553277
203	3	0.09377319
207	3	-2.06331169
219	3	-1.86154960
223	3	-0.62265969
247	3	-0.25349037
248	3	-1.37337693
251	3	-2.45149306
257	3	-0.45755541
260	3	0.76973684
262	3	12.60632184
263	3	12.00000000
264	3	3.46491228
265	3	34.37500000
266	3	-15.28448276
267	3	-0.53577446
284	3	8.65208111
289	3	-13.56585513
290	3	-2.88371084
307	3	-0.11304246
311	3	-4.02906015
314	3	-0.21064423
319	3	1.08238825
328	3	3.04600037
333	3	-0.54532781
334	3	18.89115013
335	3	-3.35614177
336	3	0.02779683
341	3	2.28116297
353	3	-0.06906336
391	3	-0.05089313
392	3	0.80950140
414	3	-0.25335988

71	4	0.00394945
74	4	7.91469194
102	4	-5.64332306
124	4	-1.33610606
127	6	-2.56993007
172	6	2.19028287
230	6	-0.26101177
249	6	11.28043449
271	6	-3.32115229
301	6	-1.08951300
332	6	-1.92864425
410	6	-1.63043226
76	7	14.50000000
101	7	1.30703845

```
DATA IN (KEEP=CSTOPS TESTNUM RTY); SET IN.FOOT;
```

```
  ARRAY STOP(I) STOP1-STOP5;
```

```
  ARRAY RTIME(I) RTIME1-RTIME5;
```

```
  IF TESTNUM=159 THEN RTY=3;
```

```
  IF TESTNUM=261 THEN DELETE;
```

```
  S1=SUM(OF RTIME1-RTIME5); IF S1 NE .;
```

```
  S2=SUM(OF STOP1-STOP5); IF S2 NE .;
```

```
DATA IN (DROP=TESTNUM); SET IN; ROUTE=TESTNUM;
```

```
PROC SORT DATA=IN; BY ROUTE RTY;
```

```
PROC SORT DATA=SRR1; BY ROUTE RTY;
```

```
PROC SORT DATA=SRR2; BY ROUTE RTY;
```

```
PROC SORT DATA=SRR11; BY ROUTE RTY;
```

```
PROC SORT DATA=SRR22; BY ROUTE RTY;
```

```
DATA SRR1; MERGE SRR1 IN; BY ROUTE RTY;
```

```
  STOPSD=.9241*CSTOPS*EST; * SDR COVERAGE;
```

```
  STOPMD=.9833*CSTOPS*EST; * MDR COVERAGE;
```

```
  STOPBA=.8917*CSTOPS*EST; * BAM COVERAGE;
```

```
  BLEST= EST;
```

```
  STSD=.9241*CSTOPS;
```

```
  STMD=.9833*CSTOPS;
```

```
  STBA=.8917*CSTOPS;
```

```
DATA SRR11; MERGE SRR11 IN; BY ROUTE RTY;
```

```
  STOPSDQ=EST*(.9241*CSTOPS)**2;
```

```
  STOPMDQ=EST*(.9833*CSTOPS)**2;
```

```
  STOPBAQ=EST*(.8917*CSTOPS)**2;
```

```
  STSDQ=EST*(.9241*CSTOPS);
```

```
  STMDQ=EST*(.9833*CSTOPS);
```

```
  STBAQ=EST*(.8917*CSTOPS);
```

```
PROC MEANS NOPRINT DATA=RR1;
```

```
  VAR EST; OUTPUT OUT=ERR1 MEAN=SEST;
```

```
PROC MEANS NOPRINT DATA=SRR1;
```

```
  VAR STOPSD STOPMD STOPBA BLEST STSD STMD STBA;
```

```
  OUTPUT OUT=IN1 MEAN= SDSUM MDSUM BASUM B1SUM STSDM STMDM STBAM;
```

```
PROC MEANS NOPRINT DATA=SRR11;
```

```

VAR STOPSDQ STOPMDQ STOPBAQ STSDQ STMDQ STBAQ;
OUTPUT OUT=IN11 MEAN= SDSUMQ MDSUMQ BASUMQ STSDQM STMDQM STBAQM;

DATA EL1; MERGE I1 ERR1 IN1 IN11;
  N1 =  SDSUM+2*SDSUMQ;
  D1 = INTERCEP+SEST+SDSUM+SDSUMQ;  ELASSDR=N1/D1;
  N2 =  MDSUM+2*MDSUMQ;
  D2 = INTERCEP+SEST+MDSUM+MDSUMQ;  ELASMDR=N2/D2;
  N3 =  BASUM+2*BASUMQ;
  D3 = INTERCEP+SEST+BASUM+BASUMQ;  ELASBAM=N3/D3;

PROC PRINT DATA=EL1 SPLIT='*';
VAR D1 D2 D3 ELASSDR ELASMDR ELASBAM ;
FORMAT ELASSDR ELASMDR ELASBAM 8.6;
LABEL ELASSDR='ELASTICITY*AT SDR COVERAGE';
LABEL ELASMDR='ELASTICITY*AT MDR COVERAGE';
LABEL ELASBAM='ELASTICITY*AT BAM COVERAGE';
TITLE1 'PRC R90 MODEL WITH CCS00 COVERAGE';
TITLE2 'ELASTICITIES FOR FOOT DATA';

```

```

/** CCS.CATFAT.LOOP00          PRC LOOP SPLIT FACTOR
/** *****
/**                               WITH 00 COVERAGE
/** *****
//SAS8 PROC ENTRY=SASHOST,          00001900
//          PRODFIX='SAS.8',        00002000
//          CONFIG=NULLFILE,        00002100
//          OPTIONS='MEMSIZE=24M',   00002200
//          WORK='300,300'           00002300
// *****                       00002400
/** PRODUCT: MVS SAS RELEASE 8      00002500
/** DOCUMENTATION: SAS COMPANION FOR THE MVS ENVIRONMENT, V6 *** 00002600
/** FROM: SAS INSTITUTE INC., BOX 8000, CARY, NC 27512-8000 *** 00002700
/** *****                       00002800
//SAS8 EXEC PGM=&ENTRY,PARM='&OPTIONS',REGION=8192K
//STEPLIB DD DISP=SHR,DSN=&PRODFIX..LIBRARY
//CONFIG DD DISP=SHR,DSN=&PRODFIX..CNTL(BATCHXA)
//          DD DISP=SHR,DSN=&CONFIG
//SASAUTOS DD DISP=SHR,DSN=&PRODFIX..AUTOLIB
//SASHELP DD DISP=SHR,DSN=&PRODFIX..SASHELP
//SASMSG DD DISP=SHR,DSN=&PRODFIX..SASMSG
//WORK DD UNIT=SYSDA,SPACE=(CYL,(&WORK),,,ROUND),
//          DCB=(RECFM=FS,DSORG=PS,LRECL=6144,BLKSIZE=6144)
//SASLOG DD SYSOUT=*
//SASLIST DD SYSOUT=*
//SASPARM DD UNIT=SYSDA,SPACE=(6120,(2000,2000)),
//          DCB=(RECFM=FB,LRECL=80,BLKSIZE=400,BUFNO=1)
//SYSUDUMP DD SYSOUT=*
/** ** ADD A LINE LIKE THE FOLLOWING TO CREATE A MACHINE-READABLE DUMP
/** *SYSDUMP DD DSN=DUMP,UNIT=SYSDA,DISP=(NEW,CATLG),SPACE=(TRK,(20,5))
// PEND
// *-----,
//STEP100 EXEC PGM=IEFBR14
//STEP200 EXEC SAS,REGION=25000K
//IN DD DSN=H30005.LOOP.SAS,DISP=SHR
//SYSIN DD *
*****;
*** CALCULATION OF CATFAT SPLIT FACTORS. COEFFICIENTS ARE ***;
*** EXTRACTED FROM CASE 1 REGRESSION RESULTS ***;
*****;

OPTIONS LINESIZE=80 NODATE ;

*** CALCULATE SPLIT FACTORS FOR CATFAT 1989 PARK AND LOOP DATA ***;

DATA I1 ; INPUT INTERCEP ;CARDS;
          515.47288268
;
DATA RR1 ; INPUT ROUTE RTY EST ; CARDS;
          15 2 -1441.01815170
          170 2 633.40880097
          361 2 3533.72857697
          406 2 2891.87626245
          2 4 -456.62680729
          3 4 70.00019819
          4 4 -1291.51974265

```

5	4	-518.88175933
6	4	-542.64109300
10	4	1952.13409001
16	4	-9783.50466039
17	4	7798.35426786
22	4	-946.78986533
23	4	498.95295366
24	4	1362.48381541
32	4	13129.85971405
33	4	-843.85885668
35	4	-9276.92233508
38	4	281.23842275
41	4	-4933.08207968
44	4	1517.78519893
45	4	715.81189518
47	4	902.95960218
49	4	2652.33026985
53	4	-183.13405164
55	4	9477.37616753
59	4	-1655.99140827
61	4	-445.05755538
64	4	-8617.14356351
69	4	-5332.54621973
70	4	3632.96785932
79	4	2825.48840796
80	4	568.86288976
81	4	222.25065646
83	4	1673.46584219
84	4	1365.91445587
85	4	2225.45475221
88	4	1821.09462429
89	4	-987.68908120
91	4	-4662.55860785
93	4	2082.30404892
96	4	-5867.75886547
97	4	-3808.65545469
98	4	-2007.00654513
105	4	589.31492259
106	4	815.10570613
110	4	836.79063705
115	4	4745.64078817
116	4	1163.88730046
119	4	-492.02383793
132	4	-845.97012009
134	4	724.29701149
135	4	-127.22866675
139	4	-184.93658927
140	4	-2365.40929870
141	4	514.07674724
142	4	774.41351803
148	4	-4986.52440310
149	4	1813.25378231
150	4	-7104.70942383
155	4	-252.52230156
156	4	2516.27176931
157	4	2445.17951966
158	4	-1559.60761398

163	4	-625.13958684
164	4	2549.23796061
165	4	2952.89449514
166	4	541.07050085
171	4	2614.40561234
173	4	-119.79482500
174	4	1400.57283984
176	4	-825.60442410
177	4	3955.63449278
179	4	12968.05657449
180	4	-2632.48572998
181	4	4067.53873512
182	4	6197.14704921
183	4	1432.62745853
184	4	2557.71437106
186	4	-4626.54004575
190	4	7247.33483713
193	4	1545.22207683
194	4	-480.28166942
195	4	1260.89608196
196	4	-140.65646313
198	4	2051.07821587
200	4	10439.19828266
202	4	765.37011838
206	4	905.31579720
208	4	2717.18812588
211	4	723.45744263
212	4	236.92313370
221	4	-282.95005234
222	4	1075.40575084
225	4	4094.16746328
227	4	2609.14023901
229	4	2986.92797731
234	4	1553.62706265
235	4	-1038.72140981
236	4	1016.46703582
237	4	-449.62649790
238	4	-1467.37608438
242	4	4463.71491917
244	4	1113.93116732
246	4	1300.87699155
252	4	1359.10572487
253	4	3562.10391635
258	4	-3127.36018437
259	4	393.00989531
269	4	347.10586280
270	4	3516.50931387
273	4	524.57058115
275	4	-4603.35805745
276	4	-1531.35441429
277	4	1886.39410252
278	4	881.97241398
279	4	433.25264827
280	4	10624.94252877
286	4	4875.93869006
288	4	-2438.16966247
291	4	15552.33129780

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295	4	-4356.10548398
296	4	1603.18500458
297	4	1708.05435347
298	4	1222.40574618
304	4	-1778.21173162
305	4	-3599.45235413
315	4	1026.61272809
317	4	518.33147941
320	4	1450.81347473
321	4	-5213.41745617
326	4	158.91628737
329	4	-2844.52979072
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347	4	1229.93521237
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372	4	769.11428884
373	4	-1530.70863763
374	4	2149.62335320
376	4	-7046.27023178
380	4	5759.86377033
381	4	3340.99622560
382	4	-2621.78170104
383	4	854.60685709
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396	4	-944.32006923
397	4	-1925.85614408
404	4	2350.59375554
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413	4	2420.34506826
416	4	-372.69409322
420	4	3762.45488455
423	4	-4641.34659323
429	4	6060.48029172
430	4	1384.96354763
434	4	-288.02366435
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436	4	206.30695075
437	4	-7530.83419108
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443	4	434.94039139
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285	6	8176.47156079
7	7	-1113.59511107
60	7	2692.99159815
73	7	5985.13724108
111	7	774.00954563
125	7	1705.18203443
130	7	399.02264555
187	7	-10883.35671985
189	7	4872.61319637
217	7	1279.16115167
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357	7	-534.59852172
389	7	0.00000000

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	4	4	89.85409684	
	5	4	30.25921396	
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	10	4	-16.60357467	
	16	4	595.06231635	
	17	4	-178.34277215	
	22	4	56.98509833	
	23	4	-34.21104232	
	24	4	-24.35694307	
	32	4	-1010.69870783	
	33	4	47.29386741	
	35	4	332.02912504	
	38	4	22.31274461	
	41	4	313.91066311	
	44	4	-34.15694599	
	45	4	-20.01695308	
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	49	4	-42.05916820	
	53	4	63.82696546	
	55	4	-271.42628860	
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	61	4	44.97551292	
	64	4	350.98323733	
	69	4	285.39771326	
	70	4	-112.87319355	
	79	4	-75.42360820	
	80	4	-71.75183028	
	81	4	39.54933888	

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84	4	-11.75544729
85	4	-38.66394485
88	4	-90.99169488
89	4	82.13731874
91	4	126.58513592
93	4	-102.18326536
96	4	226.86883287
97	4	120.50439895
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105	4	23.23240171
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208	4	-40.59311884
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23	4	1.39308482
24	4	0.76846320
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35	4	-2.67465442
38	4	-0.07332775
41	4	-4.06248308
44	4	0.36604528
45	4	0.29415353
47	4	0.16069615
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53	4	-0.71630841
55	4	2.34422589
59	4	-1.44534868
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64	4	-3.06637959
69	4	-3.07969382
70	4	1.25221119
79	4	0.89100905
80	4	1.59472560
81	4	-0.27557846
83	4	0.20894571
84	4	0.14278354
85	4	0.39221138
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91	4	-0.16065802
93	4	2.09959848
96	4	-1.80784935
97	4	-0.69069018
98	4	-0.88447012
105	4	-0.02618384
106	4	-0.12416421
110	4	0.14263892
115	4	0.49234024
116	4	0.11466286
119	4	-0.19588393
132	4	-0.33735973
134	4	2.79907649
135	4	0.02103272
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142	4	-0.21393567
148	4	-4.48694350
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194	4	-0.34894267
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229	4	0.53863481
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237	4	-0.83272856
238	4	-2.34830559
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244	4	1.12879437
246	4	0.85267285
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253	4	0.80826873
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259	4	-0.23417059
269	4	-0.07712005
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279	4	0.00924614
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413	4	1.28607194
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423	4	-4.15441972
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437	4	-4.01567688
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125	7	0.29409525
130	7	0.09292210
187	7	-2.31084500
189	7	2.86907904
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      5   4      921.96348067
      6   4      893.65633782
      10  4      2809.70743144
      16  4      -8662.72710237
      17  4      8568.71559085
      22  4      1229.71740247
      23  4      893.21230049
      24  4      1928.60301072
      32  4      15232.12695373
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      35  4      -8617.66396527
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      44  4      2187.72244352
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      49  4      3533.49317466
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98	4	-1358.58138791
105	4	2695.33666668
106	4	1477.88736346
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413	4	3195.64138069
416	4	1372.55796426
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423	4	-4256.12652749
429	4	6319.71155957
430	4	1709.26812540
434	4	374.37385674
435	4	3354.58266688
436	4	1041.21010653
437	4	-7013.80992295
439	4	-4989.95865043
440	4	2973.31289270
443	4	2553.53008821
446	4	929.38652130
240	5	-2565.46850478
285	6	8124.76275293
7	7	972.13926725
60	7	2456.86002637
73	7	5716.87702061
111	7	768.09922879
125	7	1841.62088079
130	7	558.41332208
187	7	-10671.58774148
189	7	4562.52343948
217	7	601.43328137
325	7	3856.72689815
345	7	-2983.62657225
357	7	-892.41739820
389	7	0.00000000

DATA SRR2 ; INPUT ROUTE RTY	EST;	CARDS;
15 2	-181.68191621	
170 2	505.16666667	
361 2	261.97988506	
406 2	596.92622951	
2 4	58.85714286	
3 4	60.78924018	
4 4	137.44348661	
5 4	42.12500000	
6 4	80.64285714	
10 4	-0.15342663	
16 4	614.80269059	
17 4	-160.03051085	
22 4	21.37220981	
23 4	44.53683826	
24 4	35.14666236	
32 4	-1057.11915869	
33 4	85.40535573	
35 4	359.39830061	
38 4	47.24371285	
41 4	379.23705541	
44 4	-3.40030218	
45 4	14.89443576	
47 4	9.62677725	
49 4	-25.39214236	
53 4	17.16120907	
55 4	-257.05270455	
59 4	165.51801762	
61 4	65.05234604	
64 4	385.19581667	
69 4	307.69917013	
70 4	-84.52275960	
79 4	-102.58154658	
80 4	-22.20591511	
81 4	15.60849083	
83 4	-1.47125872	
84 4	9.67456778	
85 4	-11.67038252	
88 4	-20.35601099	
89 4	207.16053812	
91 4	168.01411128	
93 4	-63.86372338	
96 4	254.35795861	
97 4	142.43878454	
98 4	144.63050013	
105 4	-0.37626646	
106 4	57.25524169	
110 4	8.04545126	
115 4	-99.63803971	
116 4	28.51275246	
119 4	67.47869987	
132 4	81.54962627	
134 4	34.39754257	
135 4	82.19584471	
139 4	80.91118186	
140 4	183.27352418	

141 4	-4.22052100
142 4	9.72440965
148 4	392.40642269
149 4	-25.65101893
150 4	364.26211335
155 4	-37.76837377
156 4	-11.43957377
157 4	-32.43014301
158 4	239.92424242
163 4	-23.50000000
164 4	-5.70218887
165 4	-373.60632184
166 4	46.80545821
171 4	-88.91706222
173 4	39.02241304
174 4	-21.54525928
176 4	20.76845110
177 4	-110.77341323
179 4	-356.37568360
180 4	194.38618691
181 4	-98.42192676
182 4	-151.94938953
183 4	-1.44371303
184 4	-47.40661704
186 4	297.44819689
190 4	-234.29093414
193 4	-31.54206002
194 4	82.93334848
195 4	3.00886651
196 4	98.13150857
198 4	-92.96945663
200 4	-326.52430966
202 4	33.17419646
206 4	22.03368001
208 4	-60.26825108
211 4	31.87341415
212 4	-21.88593711
221 4	114.96431757
222 4	27.30640068
225 4	-61.14403579
227 4	-47.89253219
229 4	-39.03443531
234 4	3.29934648
235 4	84.46966233
236 4	11.92616814
237 4	106.19175348
238 4	131.02192984
242 4	-91.12268037
244 4	-4.83757333
246 4	-22.48945366
252 4	-28.67067076
253 4	-60.68259177
258 4	134.13384913
259 4	66.57352378
269 4	2.32814213
270 4	-54.23084757
273 4	-49.65025024

275 4	213.32646506
276 4	669.37179486
277 4	-45.58060280
278 4	25.24919006
279 4	37.19785752
280 4	-562.58615911
286 4	-134.39781268
288 4	170.30029825
291 4	-546.03141123
294 4	-23.94973141
295 4	181.25154048
296 4	12.31118386
297 4	-17.40400531
298 4	-5.47546277
304 4	132.17486258
305 4	132.21598458
315 4	-99.16666667
317 4	20.32701592
320 4	-109.87110398
321 4	205.87427089
326 4	44.43055093
329 4	293.83352134
330 4	120.68494262
331 4	-18.99184148
338 4	71.73474733
339 4	53.70009084
340 4	-246.16743685
343 4	-59.16903633
344 4	336.56974786
346 4	68.56698360
347 4	14.18482438
352 4	43.72862462
354 4	-41.89113133
356 4	9.01205714
358 4	952.99999996
359 4	-3.27419355
360 4	-10.93553483
362 4	-117.58799855
363 4	-100.84230079
365 4	65.14554033
367 4	-7.58333334
368 4	39.38965016
371 4	2.87179487
372 4	17.76954686
373 4	45.31436373
374 4	-64.90127678
376 4	284.47758760
380 4	-124.86385497
381 4	-21.77943570
382 4	129.06676938
383 4	18.32498376
384 4	-4.35239916
395 4	98.36543910
396 4	114.51332340
397 4	145.59174637
404 4	0.53301817
405 4	-14.90337936

409	4	78.71030171
413	4	-49.81955264
416	4	33.37046121
420	4	-162.76784092
423	4	375.60151254
429	4	-242.45797818
430	4	-78.32377048
434	4	72.03287601
435	4	-77.97253281
436	4	48.11970874
437	4	413.84490266
439	4	902.37841529
440	4	-11.28210846
443	4	-24.53892836
446	4	63.63143724
240	5	247.45834018
285	6	-231.97079116
7	7	52.84060078
60	7	-48.41149403
73	7	-236.66625729
111	7	30.98197101
125	7	49.09556478
130	7	48.48602868
187	7	377.03457630
189	7	-138.64198785
217	7	104.19056415
325	7	-107.26481624
345	7	311.30476736
357	7	251.44205860
389	7	96.51628514

;		EST;	CARDS;
DATA SRR22 ;	INPUT ROUTE RTY		
	15 2	5.48043746	
	170 2	-9.25990676	
	361 2	-8.36494253	
	406 2	-20.98360656	
	2 4	-0.74285714	
	3 4	-0.47436735	
	4 4	-1.87350251	
	5 4	1.62500000	
	6 4	-1.65714286	
	10 4	0.12576626	
	16 4	-7.79932735	
	17 4	1.16613171	
	22 4	-0.08817750	
	23 4	-0.01388108	
	24 4	-0.19024097	
	32 4	20.58150941	
	33 4	-0.90009049	
	35 4	-2.89942639	
	38 4	-0.29006657	
	41 4	-4.97623803	
	44 4	0.07739940	
	45 4	-0.07712806	
	47 4	-0.09987595	
	49 4	0.17002758	
	53 4	-0.02267003	

55	4	2.22355315
59	4	-2.19631586
61	4	-0.34587625
64	4	-3.41063840
69	4	-3.34958506
70	4	0.94589664
79	4	1.14866435
80	4	0.66822019
81	4	-0.04483772
83	4	0.06591186
84	4	-0.00512924
85	4	0.17087932
88	4	0.25135573
89	4	-5.28878924
91	4	-0.57534390
93	4	1.64002164
96	4	-2.05383138
97	4	-0.82359493
98	4	-1.01737488
105	4	0.18620283
106	4	-0.27836107
110	4	-0.01867315
115	4	0.61942698
116	4	-0.13131917
119	4	-0.58844727
132	4	-0.67029539
134	4	-0.53705495
135	4	-0.96250405
139	4	-0.74772872
140	4	-1.46613586
141	4	0.18128655
142	4	0.00580076
148	4	-5.38549846
149	4	0.50747067
150	4	-3.72541796
155	4	0.96669389
156	4	0.17307152
157	4	0.54389225
158	4	-3.55361305
163	4	2.00000000
164	4	0.06540352
165	4	16.67816092
166	4	-0.29980262
171	4	0.94608927
173	4	-0.27303158
174	4	0.81834919
176	4	-0.06453822
177	4	1.45287764
179	4	3.29303955
180	4	-1.79340238
181	4	1.22204076
182	4	1.21581064
183	4	0.11290594
184	4	0.50644344
186	4	-3.40308855
190	4	2.54998469
193	4	0.77538585

194	4	-0.66594549
195	4	0.12817734
196	4	-2.41733522
198	4	1.07627053
200	4	3.09297175
202	4	-0.20188761
206	4	-0.16833975
208	4	0.52777778
211	4	-0.36912481
212	4	0.61617635
221	4	-1.65923283
222	4	-0.10733794
225	4	0.63338784
227	4	0.67116067
229	4	0.40597518
234	4	0.04279523
235	4	-0.73279309
236	4	0.00634482
237	4	-1.63820700
238	4	-2.33991228
242	4	0.88657363
244	4	0.14525759
246	4	0.63688874
252	4	0.70453080
253	4	0.58349676
258	4	-1.14912959
259	4	-0.50143214
269	4	0.07148214
270	4	0.65009017
273	4	1.10970947
275	4	-1.55699665
276	4	-55.93589743
277	4	1.02207826
278	4	-0.20041397
279	4	-0.20990976
280	4	8.68816848
286	4	1.40214871
288	4	-1.87475923
291	4	5.02343871
294	4	0.20809682
295	4	-1.21552413
296	4	0.00540618
297	4	0.35106854
298	4	0.17799951
304	4	-0.79890663
305	4	-0.80345136
315	4	9.83333333
317	4	-0.04740601
320	4	2.81228268
321	4	-1.29920210
326	4	-0.30646638
329	4	-3.77371219
330	4	-0.98580886
331	4	1.24125874
338	4	-0.42928650
339	4	-0.16588367
340	4	7.51401725

343	4	3.58925750
344	4	-5.47414685
346	4	-0.48929344
347	4	-0.05568445
352	4	-0.16877074
354	4	0.46147832
356	4	0.02240616
358	4	-78.66666666
359	4	0.24193548
360	4	0.18682086
362	4	0.78781748
363	4	1.02549319
365	4	-0.47808370
367	4	1.08333333
368	4	-0.25018015
371	4	-2.56410256
372	4	-0.06492324
373	4	-0.33219757
374	4	1.56133151
376	4	-2.33301694
380	4	1.06354865
381	4	0.22447666
382	4	-0.83118387
383	4	-0.08146901
384	4	0.22691714
395	4	-2.10292729
396	4	-1.00024042
397	4	-1.36434357
404	4	0.29150849
405	4	0.16035842
409	4	-0.82929656
413	4	0.80667483
416	4	-0.22754283
420	4	3.54252534
423	4	-5.15767836
429	4	3.40472252
430	4	3.64617486
434	4	-0.60040790
435	4	1.59000447
436	4	-0.28885776
437	4	-4.56968214
439	4	-29.32103825
440	4	0.24248868
443	4	0.68946122
446	4	-0.61343444
240	5	-3.04510849
285	6	2.45448807
7	7	-0.73327063
60	7	0.96432299
73	7	4.93139071
111	7	-0.12953137
125	7	-0.12154370
130	7	-0.33741674
187	7	-2.58004267
189	7	1.74958949
217	7	-1.22672576
325	7	1.70808684

```

345 7          -4.72651295
357 7          -5.14044813
389 7          -1.40567559
;
DATA IN (KEEP=CSTOPS TESTNUM RTY); SET IN.LOOP;
  ARRAY STOP(I) STOP1-STOP5;
  ARRAY RTIME(I) RTIME1-RTIME5;
  IF TESTNUM=157 THEN RTY=4;
  S1=SUM(OF RTIME1-RTIME5); IF S1 NE .;
  S2=SUM(OF STOP1-STOP5); IF S2 NE .;
DATA IN (DROP=TESTNUM); SET IN; ROUTE=TESTNUM;

PROC SORT DATA=IN; BY ROUTE RTY;
PROC SORT DATA=SRR1; BY ROUTE RTY;
PROC SORT DATA=SRR2; BY ROUTE RTY;
PROC SORT DATA=SRR11; BY ROUTE RTY;
PROC SORT DATA=SRR22; BY ROUTE RTY;

DATA SRR1; MERGE SRR1 IN; BY ROUTE RTY; * FACTORS FROM CCS 99-7.0.4.1;
  STOPSD=.9343*CSTOPS*EST;          * SDR COVERAGE;
  STOPMD=.9740*CSTOPS*EST;          * MDR COVERAGE;
  STOPBA=.9079*CSTOPS*EST;          * BAM COVERAGE;
  BLEST=EST;
  STSD=.9343*CSTOPS;
  STMD=.9740*CSTOPS;
  STBA=.9079*CSTOPS;

DATA SRR11; MERGE SRR11 IN; BY ROUTE RTY;
  STOPSDQ=EST*(.9343*CSTOPS)**2;
  STOPMDQ=EST*(.9740*CSTOPS)**2;
  STOPBAQ=EST*(.9079*CSTOPS)**2;
  STSDQ=EST*(.9343*CSTOPS);
  STMDQ=EST*(.9740*CSTOPS);
  STBAQ=EST*(.9079*CSTOPS);

PROC MEANS NOPRINT DATA=SRR1;
  VAR EST; OUTPUT OUT=ERR1 MEAN=SEST;

PROC MEANS NOPRINT DATA=SRR1;
  VAR STOPSD STOPMD STOPBA BLEST STSD STMD STBA;
  OUTPUT OUT=IN1 MEAN= SDSUM MDSUM BASUM BLSUM STSDM STMDM STBAM;

PROC MEANS NOPRINT DATA=SRR11;
  VAR STOPSDQ STOPMDQ STOPBAQ STSDQ STMDQ STBAQ;
  OUTPUT OUT=IN11 MEAN= SDSUMQ MDSUMQ BASUMQ STSDQM STMDQM STBAQM;
*;
DATA EL1; MERGE I1 ERR1 IN1 IN11;
  N1 = SDSUM+2*SDSUMQ;
  D1 = INTERCEP+SEST+SDSUM+SDSUMQ; ELASSDR=N1/D1;
  N2 = MDSUM+2*MDSUMQ;
  D2 = INTERCEP+SEST+MDSUM+MDSUMQ; ELASMDR=N2/D2;
  N3 = BASUM+2*BASUMQ;
  D3 = INTERCEP+SEST+BASUM+BASUMQ; ELASBAM=N3/D3;

PROC PRINT DATA=EL1 SPLIT='*';
VAR D1 D2 D3 ELASSDR ELASMDR ELASBAM ;
FORMAT ELASSDR ELASMDR ELASBAM 8.6;

```

```
LABEL ELASSDR='ELASTICITY*AT SDR COVERAGE';  
LABEL ELASMDR='ELASTICITY*AT MDR COVERAGE';  
LABEL ELASBAM='ELASTICITY*AT BAM COVERAGE';  
TITLE1 'PRC R90 MODEL WITH CCS00 COVERAGE';  
TITLE2 'ELASTICITIES FOR LOOP DATA1';
```

3. Output Listings

The following are the outputs from CCS.CATFAT.CURB00.CNTL, CCS.CATFAT.FOOT00.CNTL, and CCS.CATFAT.LOOP00.CNTL.

PRC CURB SPLIT FACTORS

```

07.53.41 JOB00417 ----- WEDNESDAY, 21 NOV 2001 -----
07.53.41 JOB00417 $HASP373 H39008T STARTED - WLM INIT - SRVCLASS BATCHSTD - SYS SMPA
07.53.41 JOB00417 ACF9CCCD USERID H39008 IS ASSIGNED TO THIS JOB - H39008T
07.53.41 JOB00417 IEF196I ACF9CCCD USERID H39008 IS ASSIGNED TO THIS JOB - H39008T
07.53.41 JOB00417 USRUJI-01 JOB H39008T USING LOGONID H39008
07.53.41 JOB00417 IEF196I USRUJI-01 JOB H39008T USING LOGONID H39008
07.53.41 JOB00417 IEF403I H39008T - STARTED - TIME=07.53.41
07.53.41 JOB00417 -
--TIMINGS (MINS.)--
PAGING COUNTS---
07.53.41 JOB00417 -JOBNAME STEPNAME PROCSTEP RC EXCP CONN TCB SRB CLOCK SERV PG PAGE
SWAP VIO SWAPS
07.53.41 JOB00417 -H39008T STEP100 00 0 0 .00 .00 .0 50 0 0
0 0 0
07.53.45 JOB00417 -H39008T STEP200 SAS8 00 1938 2102 .00 .00 .0 3915 0 0
0 0 0
07.53.45 JOB00417 IEF404I H39008T - ENDED - TIME=07.53.45
07.53.45 JOB00417 -H39008T ENDED. NAME-KAY 26
TOTAL TCB CPU TIME= .00 TOTAL ELAPSED
TIME= .0
07.53.45 JOB00417 $HASP395 H39008T ENDED
0----- JES2 JOB STATISTICS -----

```

```

- 21 NOV 2001 JOB EXECUTION DATE
- 1,097 CARDS READ
- 414 SYSOUT PRINT RECORDS
- 0 SYSOUT PUNCH RECORDS
- 21 SYSOUT SPOOL KBYTES
- 0.05 MINUTES EXECUTION TIME

```

```

1 //H39008T JOB (ALD04),'KAY 26',
// CLASS=B,MSGCLASS=H,NOTIFY=H39008
/*ROUTE PRINT R77
//* $ACFJ219 ACF2 ACTIVE SML
//*****
//*
//* CCS.CATFAT.CURBBY00 PRC CURB SPLIT FACTOR

```

```

JOB00417
ACF2

```

```

/** *****
/**
/**
WITH CCS00 COVERAGE

2 //SAS8 PROC ENTRY=SASHOST,
//      PRODFIX='SAS.8',
//      CONFIG=NULLFILE,
//      OPTIONS='MEMSIZE=24M',
//      WORK='300,300'
//*****
/** PRODUCT: MVS SAS RELEASE 8
/** DOCUMENTATION: SAS COMPANION FOR THE MVS ENVIRONMENT, V6
/** FROM: SAS INSTITUTE INC., BOX 8000, CARY, NC 27512-8000
//*****
//*****
//SAS8 EXEC PGM=&ENTRY, PARM='&OPTIONS', REGION=8192K
//STEPLIB DD DISP=SHR, DSN=&PRODFIX..LIBRARY
//CONFIG DD DISP=SHR, DSN=&PRODFIX..CNTL(BATCHXA)
//      DD DISP=SHR, DSN=&CONFIG
//SASAUTOS DD DISP=SHR, DSN=&PRODFIX..AUTOLIB
//SASHELP DD DISP=SHR, DSN=&PRODFIX..SASHELP
//SASMSG DD DISP=SHR, DSN=&PRODFIX..SASMSG
//WORK DD UNIT=SYSDA, SPACE=(CYL,(&WORK),,ROUND),
//      DCB=(RECFM=FS,DSORG=PS,LRECL=6144,BLKSIZE=6144)
//SASLOG DD SYSOUT=*
//SASLIST DD SYSOUT=*
//SASPARM DD UNIT=SYSDA, SPACE=(6120,(2000,2000)),
//      DCB=(RECFM=FB,LRECL=80,BLKSIZE=400,BUFNO=1)
//SYSUDUMP DD SYSOUT=*
/** ADD A LINE LIKE THE FOLLOWING TO CREATE A MACHINE-READABLE DUMP
//SYSDUMP DD DSN=DUMP, UNIT=SYSDA, DISP=(NEW,CATLG), SPACE=(TRK,(20,5))
// PEND
//*****
/**
3 //STEP100 EXEC PGM=IEFBR14
4 //STEP200 EXEC SAS, REGION=25000K
5 XXSAS8 PROC ENTRY=SASXAL,
XX      CONFIG=NULLFILE,
XX      LOAD='*.NULLPDS,VOL=REF=*.NULLPDS',
XX      SASAUTO='*.NULLPDS,VOL=REF=*.NULLPDS',
XX      OPTIONS=,
XX      SORT=4,
XX      DB2SYS=DPR0,

```

```

00001900
00002000
00002100
00002200
00002300
00002400
00002500
00002600
00002700
00002800

```

```

XX          WORK='500,200'
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XX* PRODUCT: MVS SAS RELEASE 8
XX* DOCUMENTATION: SAS COMPANION FOR THE MVS ENVIRONMENT, VERSION 8 **
XX* FROM: SAS INSTITUTE INC., SAS CAMPUS DRIVE, CARY, NC 27513 USA **
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
6 XKSAS8      EXEC PGM=&ENTRY, PARM='SORT=&SORT &OPTIONS', REGION=4096K
IEFC653I SUBSTITUTION JCL - PGM=SASX1, PARM='SORT=4 ', REGION=4096K
7 XKNULPDS    DD DISP=(NEW,PASS), DSN=&NULPDS, UNIT=WORK,
XX          SPACE=(TRK,(1,1,1)), DCB=BLKSIZE=6160, DSNTYPE=PDS
8 XKSTEPLIB  DD DISP=(SHR,PASS), DSN=&LOAD
IEFC653I SUBSTITUTION JCL - DISP=(SHR,PASS), DSN=*.NULPDS, VOL=REF=*.NULPDS
9 XX        DD DISP=SHR, DSN=SAS.V8R1.LIBRARY
10 XX       DD DISP=SHR, DSN=SYS3X.DB2.&DB2SYS..LOAD      FOR DB2
IEFC653I SUBSTITUTION JCL - DISP=SHR, DSN=SYS3X.DB2.DPR0.LOAD
11 XX       DD DISP=SHR, DSN=SYS3.&DB2SYS..DSNEXIT        FOR DB2
IEFC653I SUBSTITUTION JCL - DISP=SHR, DSN=SYS3.DPR0.DSNEXIT
12 XXTRANS   DD DISP=SHR, DSN=SAS.V8R1.SASC.TRANSLIB
XX** UNCOMMENT/SUPPLY YOUR DSN IF YOU NEED TO CONCATENATE SORT LIB
XX**        DD DISP=SHR, DSN=SYS1.SORT.LINKLIB
13 XXCONFIG  DD DISP=SHR, DSN=SAS.V8R1.CNTL(BATCH)
14 XX       DD DISP=SHR, DSN=&CONFIG
IEFC653I SUBSTITUTION JCL - DISP=SHR, DSN=NULLFILE
15 XKSASAUTOS DD DISP=(SHR,PASS), DSN=&SASAUTO
IEFC653I SUBSTITUTION JCL - DISP=(SHR,PASS), DSN=*.NULPDS, VOL=REF=*.NULPDS
16 XX       DD DISP=SHR, DSN=SAS.V8R1.AUTOLIB
17 XKSASHELP DD DISP=SHR, DSN=SAS.V8R1.SASHELP
18 XKSASMSG  DD DISP=SHR, DSN=SAS.V8R1.SASMSG
19 XXWORK    DD UNIT=DISK, SPACE=(6144, (&WORK),,,ROUND),
XX          DCB=(RECFM=FS, LRECL=6144, BLKSIZE=6144, DSORG=PS)
IEFC653I SUBSTITUTION JCL -
UNIT=DISK, SPACE=(6144, (500,200),,,ROUND), DCB=(RECFM=FS, LRECL=6144, BLKSIZE=6144,
DSORG=PS)
20 XKSASLOG  DD SYSOUT=*
21 XKSASCLOG DD SYSOUT=*
22 XKSASLIST DD SYSOUT=*
23 XKSASPARM DD UNIT=DISK, SPACE=(400, (100,300)),
XX          DCB=(RECFM=FB, LRECL=80, BLKSIZE=400, BUFNO=1)
24 XKSYSUDUMP DD SYSOUT=*
XX** ADD A LINE LIKE THE FOLLOWING TO CREATE A MACHINE-READABLE DUMP
XX*SYSDUMP DD DSN=DUMP, UNIT=SYSDA, DISP=(NEW,CATLG), SPACE=(TRK, (20,5))
25 //IN      DD DSN=H30005.CURB.SAS, DISP=SHR

```

26 //SYSIN DD *

STMT NO. MESSAGE

4 IEF001I PROCEDURE SAS WAS EXPANDED USING SYSTEM LIBRARY SYS3.PROCLIB

IEF142I H39008T STEP100 - STEP WAS EXECUTED - COND CODE 0000

IEF373I STEP/STEP100 /START 2001325.0753

IEF374I STEP/STEP100 /STOP 2001325.0753 CPU 0MIN 00.01SEC SRB 0MIN 00.00SEC VIRT 8K SYS 216K

EXT 4K SYS 8336K

IEF236I ALLOC. FOR H39008T SAS8 STEP200

IGD101I SMS ALLOCATED TO DDNAME (NULLPDS)

DSN (SYS01325.T075341.RA000.H39008T.NULLPDS.H0C)

STORCLAS (SCVIO) MGMTCLAS () DATACLAS ()

VOL SER NOS= VIO

IGD103I SMS ALLOCATED TO DDNAME STEPLIB

IGD103I SMS ALLOCATED TO DDNAME

IEF237I 0950 ALLOCATED TO

IGD103I SMS ALLOCATED TO DDNAME

IGD103I SMS ALLOCATED TO DDNAME CTRANS

IGD103I SMS ALLOCATED TO DDNAME CONFIG

IEF237I DMY ALLOCATED TO

IGD103I SMS ALLOCATED TO DDNAME SASAUTOS

IGD103I SMS ALLOCATED TO DDNAME

IGD103I SMS ALLOCATED TO DDNAME SASHELP

IGD103I SMS ALLOCATED TO DDNAME SASMSG

IGD101I SMS ALLOCATED TO DDNAME (WORK)

DSN (SYS01325.T075341.RA000.H39008T.R0C61125)

STORCLAS (SCVIO) MGMTCLAS () DATACLAS ()

VOL SER NOS= VIO

IEF237I JES2 ALLOCATED TO SASLOG

IEF237I JES2 ALLOCATED TO SASCTLOG

IEF237I JES2 ALLOCATED TO SASLIST

IGD101I SMS ALLOCATED TO DDNAME (SASPARM)

DSN (SYS01325.T075341.RA000.H39008T.R0C61126)

STORCLAS (SCVIO) MGMTCLAS () DATACLAS ()

VOL SER NOS= VIO

IEF237I JES2 ALLOCATED TO SYSUDUMP

IGD103I SMS ALLOCATED TO DDNAME IN

IEF237I JES2 ALLOCATED TO SYSIN

IGD104I SAS.V8R1.SASC.TRANS LIB

IGD103I SMS ALLOCATED TO DDNAME CTRANS

IEF237I B889 ALLOCATED TO SYS00001

IGD103I SMS ALLOCATED TO DDNAME SYS00002

IGD104I SAS.V8R1.NEWS

RETAINED, DDNAME=CTTRANS

RETAINED, DDNAME=SYS00002


```

IEF285I SAS.V8R1.SASHELP          KEPT
IEF285I VOL SER NOS= S0A1J1.
IEF142I H39008T SAS8 STEP200 - STEP WAS EXECUTED - COND CODE 0000
IGD104I SAS.V8R1.LIBRARY          RETAINED, DDNAME=
IEF285I SYS3X.DB2.DPRO.LOAD      KEPT
IEF285I VOL SER NOS= S09000.
IGD104I SYS3.DPRO.DSNEEXIT
IGD104I SAS.V8R1.CNTL            RETAINED, DDNAME=
IGD104I SAS.V8R1.AUTOLIB          RETAINED, DDNAME=CONFIG
IGD104I SAS.V8R1.SASHELP          RETAINED, DDNAME=
IGD104I SAS.V8R1.SASMSG          RETAINED, DDNAME=SASHELP
IGD104I SAS.V8R1.SASMSG          RETAINED, DDNAME=SASMSG
IGD105I SYS01325.T075341.RA000.H39008T.R0C61125 DELETED, DDNAME=WORK
IEF285I H39008.H39008T.JOB00417.D0000102.?   SYSOUT
IEF285I H39008.H39008T.JOB00417.D0000103.?   SYSOUT
IEF285I H39008.H39008T.JOB00417.D0000104.?   SYSOUT
IGD105I SYS01325.T075341.RA000.H39008T.R0C61126 DELETED, DDNAME=SASPARM
IEF285I H39008.H39008T.JOB00417.D0000105.?   SYSOUT
IGD104I H30005.CURB.SAS          RETAINED, DDNAME=IN
IEF285I H39008.H39008T.JOB00417.D0000101.?   SYSIN
IGD104I SAS.V8R1.SASC.TRANSLIB   RETAINED, DDNAME=CTTRANS
IEF373I STEP/SAS8 /START 2001325.0753
IEF374I STEP/SAS8 /STOP 2001325.0753 CPU      OMIN 00.27SEC SRB      OMIN 00.03SEC VIRT 1012K SYS 312K
EXT 8356K SYS 8656K
IGD105I SYS01325.T075341.RA000.H39008T.NULLPDS.H0C DELETED, DDNAME=NULLPDS
IEF375I JOB/H39008T /START 2001325.0753
IEF376I JOB/H39008T /STOP 2001325.0753 CPU      OMIN 00.28SEC SRB      OMIN 00.03SEC
11
Wednesday, November 21, 2000
1
The SAS System
07:53

```

NOTE: Copyright (c) 1999-2000 by SAS Institute Inc., Cary, NC, USA.

NOTE: SAS (r) Proprietary Software Release 8.1 (TS1M0)

Licensed to US POSTAL SERVICE, Site 0039790002.

NOTE: This session is executing on the OS/390 V02R10M00 platform.

NOTE: Running on AMDAHL Model 9672 Serial Number 012084,
 AMDAHL Model 9672 Serial Number 112084,
 AMDAHL Model 9672 Serial Number 212084,
 AMDAHL Model 9672 Serial Number 312084,
 AMDAHL Model 9672 Serial Number 412084,
 AMDAHL Model 9672 Serial Number 512084,
 AMDAHL Model 9672 Serial Number 612084,

AMDAHL Model 9672 Serial Number 712084.

Welcome to the SAS Information Delivery System,

```

888      8      Release 8.1!
8 8      88
8 8      8
8 8      8
8 8      8
8
88 8 8      8      This is the latest version of SAS.V8R1
8 8 8 8      8      If you experience any problems contact
8 8 8 8      8      Theresa Turner ext 5133
8      888 8 8

```

NOTE: The SASUSER library was not specified. SASUSER library will now be the same as the WORK library.
NOTE: All data sets and catalogs in the SASUSER library will be deleted at the end of the session. Use the NOWORKTERM option to prevent their deletion.

NOTE: SAS system options specified are:
SORT=4

NOTE: The initialization phase used 0.05 CPU seconds and 7170K.

```

1 *****;
2 *** CALCULATION OF CATFAT SPLIT FACTORS. COEFFICIENTS ARE ***;
3 *** EXTRACTED FROM CASE 1 REGRESSION RESULTS ***;
4 *****;
5
6 OPTIONS LINESIZE=80 NODATE ;
8 *** CALCULATE SPLIT FACTORS FOR CATFAT 1989 CURBLINE ROUTES ***;
10 DATA I1 ; INPUT INTERCEP ; CARDS;

```

NOTE: The data set WORK.I1 has 1 observations and 1 variables.
NOTE: The DATA statement used 0.01 CPU seconds and 7707K.

12 ;

13 DATA RR1 ; INPUT ROUTE RTY EST ; CARDS ;

NOTE: The data set WORK.RR1 has 161 observations and 3 variables.

NOTE: The DATA statement used 0.01 CPU seconds and 7707K.

12

The SAS System

175 ;

176 DATA SRR1 ; INPUT ROUTE RTY EST; CARDS;

NOTE: The data set WORK.SRR1 has 161 observations and 3 variables.

NOTE: The DATA statement used 0.01 CPU seconds and 7707K.

338 ;

339 DATA SRR11 ; INPUT ROUTE RTY EST; CARDS;

NOTE: The data set WORK.SRR11 has 161 observations and 3 variables.

NOTE: The DATA statement used 0.01 CPU seconds and 7707K.

501 ;

502 DATA I2 ; INPUT INTERCEP ; CARDS;

NOTE: The data set WORK.I2 has 1 observations and 1 variables.

NOTE: The DATA statement used 0.00 CPU seconds and 7707K.

504 ;

505 DATA RR2 ; INPUT ROUTE RTY EST ; CARDS;

NOTE: The data set WORK.RR2 has 161 observations and 3 variables.

NOTE: The DATA statement used 0.01 CPU seconds and 7707K.

667 ;

668 DATA SRR2 ; INPUT ROUTE RTY EST; CARDS;

NOTE: The data set WORK.SRR2 has 161 observations and 3 variables.

NOTE: The DATA statement used 0.01 CPU seconds and 7707K.

830 ;

831 DATA SRR22 ; INPUT ROUTE RTY EST; CARDS;

NOTE: The data set WORK.SRR22 has 161 observations and 3 variables.

NOTE: The DATA statement used 0.01 CPU seconds and 7707K.

```

993      ;
994      DATA IN (KEEP=CSTOPS TESTNUM RTY); SET IN.CURB;
995      ARRAY STOP(I) STOP1-STOP5;
996      ARRAY RTIME(I) RTIME1-RTIME5;
997      S1=SUM(OF RTIME1-RTIME5); IF S1 NE .;
998      S2=SUM(OF STOP1-STOP5); IF S2 NE .;

```

NOTE: There were 161 observations read from the data set IN.CURB.
 NOTE: The data set WORK.IN has 161 observations and 3 variables.
 NOTE: The DATA statement used 0.02 CPU seconds and 7904K.

```

999      DATA IN (DROP=TESTNUM); SET IN; ROUTE=TESTNUM;

```

NOTE: There were 161 observations read from the data set WORK.IN.
 NOTE: The data set WORK.IN has 161 observations and 3 variables.
 NOTE: The DATA statement used 0.00 CPU seconds and 7904K.

```

1001     PROC SORT DATA=IN; BY ROUTE RTY;

```

NOTE: There were 161 observations read from the data set WORK.IN.
 NOTE: The data set WORK.IN has 161 observations and 3 variables.
 NOTE: The PROCEDURE SORT used 0.00 CPU seconds and 7996K.

The SAS System

13

```

1002     PROC SORT DATA=SRR1; BY ROUTE RTY;

```

NOTE: There were 161 observations read from the data set WORK.SRR1.
 NOTE: The data set WORK.SRR1 has 161 observations and 3 variables.
 NOTE: The PROCEDURE SORT used 0.00 CPU seconds and 7996K.

```

1003     PROC SORT DATA=SRR2; BY ROUTE RTY;

```

NOTE: There were 161 observations read from the data set WORK.SRR2.
 NOTE: The data set WORK.SRR2 has 161 observations and 3 variables.
 NOTE: The PROCEDURE SORT used 0.00 CPU seconds and 7996K.

```

1004     PROC SORT DATA=SRR11; BY ROUTE RTY;

```

NOTE: There were 161 observations read from the data set WORK.SRR11.
 NOTE: The data set WORK.SRR11 has 161 observations and 3 variables.

NOTE: The PROCEDURE SORT used 0.00 CPU seconds and 7996K.

1005 PROC SORT DATA=SRR22; BY ROUTE RTY;

NOTE: There were 161 observations read from the data set WORK.SRR22.

NOTE: The data set WORK.SRR22 has 161 observations and 3 variables.

NOTE: The PROCEDURE SORT used 0.00 CPU seconds and 7996K.

```

1007 DATA SRR1; MERGE SRR1 IN; BY ROUTE RTY; * FACTORS FROM CCS.KEYS96;
1008 STOPSD=.9413*CSTOPS*EST; * SDR WGTD COVERAGE;
1009 STOPMD=.9854*CSTOPS*EST; * MDR WGTD COVERAGE;
1010 STOPBA=.8964*CSTOPS*EST; * BAM WGTD COVERAGE;
1011 B1EST=EST;
1012 STSD=.9413*CSTOPS;
1013 STMD=.9854*CSTOPS;
1014 STBA=.8964*CSTOPS;

```

NOTE: There were 161 observations read from the data set WORK.SRR1.

NOTE: There were 161 observations read from the data set WORK.IN.

NOTE: The data set WORK.SRR1 has 161 observations and 11 variables.

NOTE: The DATA statement used 0.01 CPU seconds and 8124K.

```

1016 DATA SRR11; MERGE SRR11 IN; BY ROUTE RTY;
1017 STOPSDQ=EST*(.9413*CSTOPS)**2;
1018 STOPMDQ=EST*(.9854*CSTOPS)**2;
1019 STOPBAQ=EST*(.8964*CSTOPS)**2;
1020 STSDQ=EST*(.9413*CSTOPS);
1021 STMDQ=EST*(.9854*CSTOPS);
1022 STBAQ=EST*(.8964*CSTOPS);

```

NOTE: There were 161 observations read from the data set WORK.SRR11.

NOTE: There were 161 observations read from the data set WORK.IN.

NOTE: The data set WORK.SRR11 has 161 observations and 10 variables.

NOTE: The DATA statement used 0.01 CPU seconds and 8124K.

```

1024 PROC MEANS NOPRINT DATA=RR1;
1025 VAR EST; OUTPUT OUT=ERR1 MEAN=SEST;

```

NOTE: There were 161 observations read from the data set WORK.RR1.

NOTE: The data set WORK.ERR1 has 1 observations and 3 variables.

NOTE: The PROCEDURE MEANS used 0.01 CPU seconds and 8460K.

The SAS System

```

1027      PROC MEANS NOPRINT DATA=SRR1;
1028      VAR STOPSD STOPMD STOPBA B1EST STSD STMD STBA;
1029      OUTPUT OUT=IN1 MEAN= SDSUM MDSUM BASUM B1SUM STSDM STMDM STBAM;

```

NOTE: There were 161 observations read from the data set WORK.SRR1.
 NOTE: The data set WORK.IN1 has 1 observations and 9 variables.
 NOTE: The PROCEDURE MEANS used 0.01 CPU seconds and 8460K.

```

1031      PROC MEANS NOPRINT DATA=SRR1;
1032      VAR STOPSDQ STOPMDQ STOPBAQ STSDQ STMDQ STBAQ;
1033      OUTPUT OUT=IN11 MEAN= SDSUMQ MDSUMQ BASUMQ STSDQM STMDQM STBAQM;

```

NOTE: There were 161 observations read from the data set WORK.SRR11.
 NOTE: The data set WORK.IN11 has 1 observations and 8 variables.
 NOTE: The PROCEDURE MEANS used 0.00 CPU seconds and 8460K.

```

1036      DATA EL1; MERGE I1 ERR1 IN1 IN11;
1037      N1 = SDSUM+2*SDSUMQ;
1038      D1 = INTERCEP+SEST+SDSUM+SDSUMQ; ELASSDR=N1/D1;
1039      N2 = MDSUM+2*MDSUMQ;
1040      D2 = INTERCEP+SEST+MDSUM+MDSUMQ; ELASMDR=N2/D2;
1041      N3 = BASUM+2*BASUMQ;
1042      D3 = INTERCEP+SEST+BASUM+BASUMQ; ELASBAM=N3/D3;

```

NOTE: There were 1 observations read from the data set WORK.I1.
 NOTE: There were 1 observations read from the data set WORK.ERR1.
 NOTE: There were 1 observations read from the data set WORK.IN1.
 NOTE: There were 1 observations read from the data set WORK.IN11.
 NOTE: The data set WORK.EL1 has 1 observations and 26 variables.
 NOTE: The DATA statement used 0.01 CPU seconds and 8460K.

```

1044      PROC PRINT DATA=EL1 SPLIT='*';
1045      VAR D1 D2 D3 ELASSDR ELASMDR ELASBAM ;
1046      FORMAT ELASSDR ELASMDR ELASBAM 8.6;
1047      LABEL ELASSDR='ELASTICITY*AT SDR COVERAGE';
1048      LABEL ELASMDR='ELASTICITY*AT MDR COVERAGE';
1049      LABEL ELASBAM='ELASTICITY*AT BAM COVERAGE';
1050      TITLE1 'PRC R90 MODEL WITH CCS00 COVERAGE';
1051      TITLE2 'ELASTICITIES FOR CURB DATA';

```

NOTE: There were 1 observations read from the data set WORK.EL1.

NOTE: The PROCEDURE PRINT printed page 1.
NOTE: The PROCEDURE PRINT used 0.02 CPU seconds and 8837K.

NOTE: The SAS session used 0.22 CPU seconds and 8837K.

NOTE: SAS Institute Inc., SAS Campus Drive, Cary, NC USA 27513-2414

1 PRC R90 MODEL WITH CCS00 COVERAGE 1
ELASTICITIES FOR CURB DATA

Obs	D1	D2	D3	AT SDR COVERAGE AT MDR COVERAGE AT BAM COVERAGE	ELASTICITY	ELASTICITY	ELASTICITY
1	1047.78	1067.94	1024.93	0.433661	0.397992	0.467944	

PRC FOOT SPLIT FACTORS

```

08.19.27 JOB02149 ----- WEDNESDAY, 21 NOV 2001 -----
08.19.27 JOB02149 $HASP373 H39008T STARTED - WLM INIT - SRVCLASS BATCHSTD - SYS SMPA
08.19.27 JOB02149 ACF9CCCD USERID H39008 IS ASSIGNED TO THIS JOB - H39008T
08.19.27 JOB02149 IEF196I ACF9CCCD USERID H39008 IS ASSIGNED TO THIS JOB - H39008T
08.19.27 JOB02149 USRUJI-01 JOB H39008T USING LOGONID H39008
08.19.27 JOB02149 IEF196I USRUJI-01 JOB H39008T USING LOGONID H39008
08.19.27 JOB02149 IEF403I H39008T - STARTED - TIME=08.19.27
08.19.27 JOB02149 -
PAGING COUNTS---
08.19.27 JOB02149 -JOBNAME STEPNAME PROCSTEP RC EXCP CONN TCB SRB CLOCK SERV PG PAGE
SWAP VIO SWAPS
08.19.27 JOB02149 -H39008T STEP100 00 0 0 .00 .00 .0 52 0 0
0 0
08.19.31 JOB02149 -H39008T STEP200 SAS8 00 1935 2122 .00 .0 4055 0 0
0 0
08.19.31 JOB02149 IEF404I H39008T - ENDED - TIME=08.19.31
08.19.31 JOB02149 -H39008T ENDED. NAME-HUME 26
TIME=.0
08.19.31 JOB02149 $HASP395 H39008T ENDED
0----- JES2 JOB STATISTICS -----
TOTAL TCB CPU TIME= .00 TOTAL ELAPSED

```

```

--TIMINGS (MINS.)--
-----

```

- 21 NOV 2001 JOB EXECUTION DATE

- 596 CARDS READ

- 418 SYSOUT PRINT RECORDS

- 0 SYSOUT PUNCH RECORDS

- 21 SYSOUT SPOOL KBYTES

- 0.07 MINUTES EXECUTION TIME

1 //H39008T JOB (ALD04),'HUME 26', JOB02149

// CLASS=B,MSGCLASS=H,NOTIFY=H39008

/*ROUTE PRINT R77

/** \$ACFJ219 ACF2 ACTIVE SMI

/**

/** CCS.CATFAT.FOOTBY00

/** *****

PRC FOOT SPLIT FACTOR

ACF2


```

/*
***** WITH CCS00 COVERAGE *****
2 //SAS8 PROC ENTRY=SASHOST,
//      PRODFIX='SAS.V8',
//      CONFIG=NULLFILE,
//      OPTIONS='MEMSIZE=24M',
//      WORK='300,300'
//*****
/* PRODUCT: MVS SAS RELEASE 8
/* DOCUMENTATION: SAS COMPANION FOR THE MVS ENVIRONMENT, V6
/* FROM: SAS INSTITUTE INC., BOX 8000, CARY, NC 27512-8000
//*****
//*****
//SAS8 EXEC PGM=&ENTRY,PARM='&OPTIONS',REGION=8192K
//STEPLIB DD DISP=SHR,DSN=&PRODFIX..LIBRARY
//CONFIG DD DISP=SHR,DSN=&PRODFIX..CNTL(BATCHXA)
//
//SASAUTOS DD DISP=SHR,DSN=&CONFIG
//SASHELP DD DISP=SHR,DSN=&PRODFIX..AUTOLIB
//SASMSG DD DISP=SHR,DSN=&PRODFIX..SASHELP
//WORK DD UNIT=SYSDA,SPACE=(CYL,(&WORK),,ROUND),
//      DCB=(RECFM=FS,DSORG=PS,LRECL=6144,BLKSIZE=6144)
//SASLOG DD SYSOUT=*
//SASLIST DD SYSOUT=*
//SASPARM DD UNIT=SYSDA,SPACE=(6120,(2000,2000)),
//      DCB=(RECFM=FB,LRECL=80,BLKSIZE=400,BUFNO=1)
//SYSUDUMP DD SYSOUT=*
/* ADD A LINE LIKE THE FOLLOWING TO CREATE A MACHINE-READABLE DUMP
/*SYSDUMP DD DSN=DUMP,UNIT=SYSDA,DISP=(NEW,CATLG),SPACE=(TRK,(20,5))
// PEND
//*****
/*
3 //STEP100 EXEC PGM=IEFBR14
4 //STEP200 EXEC SAS,REGION=25000K
5 XXSAS8 PROC ENTRY=SASXA1,
XX      CONFIG=NULLFILE,
XX      LOAD='*.NULLPDS,VOL=REF=*.NULLPDS',
XX      SASAUTO='*.NULLPDS,VOL=REF=*.NULLPDS',
XX      OPTIONS=,
XX      SORT=4,
XX      DB2SYS=DPRO,
XX      WORK='500,200'

```

```

00001900
00002000
00002100
00002200
00002300
00002400
00002500
00002600
00002700
00002800

```

```

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XX* PRODUCT: MVS SAS RELEASE 8
XX* DOCUMENTATION: SAS COMPANION FOR THE MVS ENVIRONMENT, VERSION 8 **
XX* FROM: SAS INSTITUTE INC., SAS CAMPUS DRIVE, CARY, NC 27513 USA **
XX*XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
6 XXSAS8 EXEC PGM=&ENTRY, PARM='SORT=&SORT &OPTIONS', REGION=4096K
IEFC653I SUBSTITUTION JCL - PGM=SASXAL, PARM='SORT=4 ', REGION=4096K
7 XXNULLPDS DD DISP=(NEW,PASS), DSN=&NULLPDS, UNIT=WORK,
XX SPACE=(TRK,(1,1,1)), DCB=BLKSIZE=6160, DSNTYPE=PDS
8 XXSTEPLIB DD DISP=(SHR,PASS), DSN=&LOAD
IEFC653I SUBSTITUTION JCL - DISP=(SHR,PASS), DSN=* .NULLPDS, VOL=REF=* .NULLPDS
9 XX DD DISP=SHR, DSN=SAS.V8R1.LIBRARY
10 XX DD DISP=SHR, DSN=SYS3X.DB2.&DB2SYS..LOAD FOR DB2
IEFC653I SUBSTITUTION JCL - DISP=SHR, DSN=SYS3X.DB2.DPRO.LOAD
11 XX DD DISP=SHR, DSN=SYS3.&DB2SYS..DSNEXIT FOR DB2
IEFC653I SUBSTITUTION JCL - DISP=SHR, DSN=SYS3.DPRO.DSNEXIT
12 XXCTTRANS DD DISP=SHR, DSN=SAS.V8R1.SASC.TRANSLIB
XX** UNCOMMENT/SUPPLY YOUR DSN IF YOU NEED TO CONCATENATE SORT LIB
XX** DD DISP=SHR, DSN=SYS1.SORT.LINKLIB
13 XXCONFIG DD DISP=SHR, DSN=SAS.V8R1.CNTL(BATCH)
14 XX DD DISP=SHR, DSN=&CONFIG
IEFC653I SUBSTITUTION JCL - DISP=SHR, DSN=NULLFILE
15 XXSASAUTOS DD DISP=(SHR,PASS), DSN=&SASAUTO
IEFC653I SUBSTITUTION JCL - DISP=(SHR,PASS), DSN=* .NULLPDS, VOL=REF=* .NULLPDS
16 XX DD DISP=SHR, DSN=SAS.V8R1.AUTOLIB
17 XXSASHELP DD DISP=SHR, DSN=SAS.V8R1.SASHELP
18 XXSASMSG DD DISP=SHR, DSN=SAS.V8R1.SASMSG
19 XXWORK DD UNIT=DISK, SPACE=(6144, (&WORK),, , ROUND),
XX DCB=(RECFM=FS, LRECL=6144, BLKSIZE=6144, DSORG=PS)
IEFC653I SUBSTITUTION JCL -
UNIT=DISK, SPACE=(6144, (500, 200),, , ROUND), DCB=(RECFM=FS, LRECL=6144, BLKSIZE=6144,
DSORG=PS)
20 XXSASLOG DD SYSOUT=*
21 XXSASCLOG DD SYSOUT=*
22 XXSASLIST DD SYSOUT=*
23 XXSASPARM DD UNIT=DISK, SPACE=(400, (100, 300)),
XX DCB=(RECFM=FB, LRECL=80, BLKSIZE=400, BUFNO=1)
24 XXSYSUDUMP DD SYSOUT=*
XX** ADD A LINE LIKE THE FOLLOWING TO CREATE A MACHINE-READABLE DUMP
XX*SYSDUMP DD DSN=DUMP, UNIT=SYSDA, DISP=(NEW,CATLG), SPACE=(TRK, (20, 5))
25 //IN DD DSN=H30005.FOOT.SAS, DISP=SHR
//*

```

26 //SY\$IN DD *

STMT NO. MESSAGE

4 IEF001I PROCEDURE SAS WAS EXPANDED USING SYSTEM LIBRARY SYS3.PROCLIB

IEF142I H39008T STEP100 - STEP WAS EXECUTED - COND CODE 0000

IEF373I STEP/STEP100 /START 2001325.0819

IEF374I STEP/STEP100 /STOP 2001325.0819 CPU OMIN 00.01SEC SRB OMIN 00.00SEC VIRT 8K SYS 216K

EXT 4K SYS 8452K

IEF236I ALLOC. FOR H39008T SAS8 STEP200

IGD101I SMS ALLOCATED TO DDNAME (NULLPDS)

DSN (SYS01325.T081926.RA000.H39008T.NULLPDS.H0C)

STORCLAS (SCVIO) MGMTCLAS () DATACLAS ()

VOL SER NOS= VIO

IGD103I SMS ALLOCATED TO DDNAME STEPLIB

IGD103I SMS ALLOCATED TO DDNAME

IEF237I 0950 ALLOCATED TO

IGD103I SMS ALLOCATED TO DDNAME

IGD103I SMS ALLOCATED TO DDNAME CTRANS

IGD103I SMS ALLOCATED TO DDNAME CONFIG

IEF237I DMY ALLOCATED TO

IGD103I SMS ALLOCATED TO DDNAME SASAUTOS

IGD103I SMS ALLOCATED TO DDNAME

IGD103I SMS ALLOCATED TO DDNAME SASHELP

IGD103I SMS ALLOCATED TO DDNAME SASMSG

IGD101I SMS ALLOCATED TO DDNAME (WORK)

DSN (SYS01325.T081926.RA000.H39008T.R0C64020)

STORCLAS (SCVIO) MGMTCLAS () DATACLAS ()

VOL SER NOS= VIO

IEF237I JES2 ALLOCATED TO SASLOG

IEF237I JES2 ALLOCATED TO SASLOG

IEF237I JES2 ALLOCATED TO SASLIST

IGD101I SMS ALLOCATED TO DDNAME (SASPARM)

DSN (SYS01325.T081926.RA000.H39008T.R0C64021)

STORCLAS (SCVIO) MGMTCLAS () DATACLAS ()

VOL SER NOS= VIO

IEF237I JES2 ALLOCATED TO SYSUDUMP

IGD103I SMS ALLOCATED TO DDNAME IN

IEF237I JES2 ALLOCATED TO SYSIN

IGD104I SAS.V8R1.SASC.TRANSLIB

IGD103I SMS ALLOCATED TO DDNAME CTRANS

IEF237I B889 ALLOCATED TO SYS00001

IGD103I SMS ALLOCATED TO DDNAME SYS00002

IGD104I SAS.V8R1.NEWS

RETAINED, DDNAME=CTTRANS

RETAINED, DDNAME=SYS00002

```

IEF285I SAS.V8R1.SASHELP          KEPT
IEF285I VOL SER NOS= S0A1J1.
IEF142I H39008T SAS8 STEP200 - STEP WAS EXECUTED - COND CODE 0000
IGD104I SAS.V8R1.LIBRARY          RETAINED, DDNAME=
IEF285I SYS3X.DB2.DPR0.LOAD       KEPT
IEF285I VOL SER NOS= S09000.
IGD104I SYS3.DPR0.DSNEEXIT
IGD104I SAS.V8R1.CNTL
IGD104I SAS.V8R1.AUTOLIB
IGD104I SAS.V8R1.SASHELP
IGD104I SAS.V8R1.SASMSG
IGD105I SYS01325.T081926.RA000.H39008T.R0C64020
IEF285I H39008.H39008T.JOB02149.D0000102.?
IEF285I H39008.H39008T.JOB02149.D0000103.?
IEF285I H39008.H39008T.JOB02149.D0000104.?
IGD105I SYS01325.T081926.RA000.H39008T.R0C64021
IEF285I H39008.H39008T.JOB02149.D0000105.?
IGD104I H30005.FOOT.SAS
IEF285I H39008.H39008T.JOB02149.D0000101.?
IGD104I SAS.V8R1.SASC.TRANSLIB
IEF373I STEP/SAS8 /START 2001325.0819
IEF374I STEP/SAS8 /STOP 2001325.0819 CPU OMIN 00.28SEC SRB OMIN 00.04SEC VIRT 1012K SYS 312K
EXT 8356K SYS 8772K
IGD105I SYS01325.T081926.RA000.H39008T.NULLPDS.H0C DELETED, DDNAME=NULLPDS
IEF375I JOB/H39008T /START 2001325.0819
IEF376I JOB/H39008T /STOP 2001325.0819 CPU OMIN 00.29SEC SRB OMIN 00.04SEC
11 The SAS System
Wednesday, November 21, 200 08:19
1

```

NOTE: Copyright (c) 1999-2000 by SAS Institute Inc., Cary, NC, USA.

NOTE: SAS (r) Proprietary Software Release 8.1 (TS1M0)

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NOTE: This session is executing on the OS/390 V02R10M00 platform.

NOTE: Running on AMDAHL Model 9672 Serial Number 012084,
 AMDAHL Model 9672 Serial Number 112084,
 AMDAHL Model 9672 Serial Number 212084,
 AMDAHL Model 9672 Serial Number 312084,
 AMDAHL Model 9672 Serial Number 412084,
 AMDAHL Model 9672 Serial Number 512084,
 AMDAHL Model 9672 Serial Number 612084,

AMDAHL Model 9672 Serial Number 712084.

Welcome to the SAS Information Delivery System,

```

      888      8      Release 8.1!
      8 8      88
      8 8      8
      8 8      8
      8 8      8
      8
      88 8 8      8
      8 8 8 8      8
      8 8 8 8 8 8
      8 888 8 8

```

This is the latest version of SAS.V8R1
If you experience any problems contact
Theresa Turner ext 5133

NOTE: The SASUSER library was not specified. SASUSER library will now be the same as the WORK library.
NOTE: All data sets and catalogs in the SASUSER library will be deleted at the end of the session. Use
the NOWORKTERM option to
prevent their deletion.

NOTE: SAS system options specified are:
SORT=4

NOTE: The initialization phase used 0.07 CPU seconds and 7170K.

```

1 *****;
2 *** CALCULATION OF CATFAT SPLIT FACTORS. COEFFICIENTS ARE ***;
3 *** EXTRACTED FROM CASE 1 REGRESSION RESULTS ***;
4 *****;
5
6 OPTIONS LINESIZE=80 NODATE ;
8 *** CALCULATE SPLIT FACTORS FOR CATFAT 1989 FOOT ROUTE DATA ***;
11 DATA I1 ; INPUT INTERCEP ; CARDS;

```

NOTE: The data set WORK.I1 has 1 observations and 1 variables.
NOTE: The DATA statement used 0.01 CPU seconds and 7707K.

13 ;

14 DATA RR1 ; INPUT ROUTE RTY EST ; CARDS;

NOTE: The data set WORK.RR1 has 77 observations and 3 variables.
NOTE: The DATA statement used 0.00 CPU seconds and 7707K.

12 The SAS System

92 ;
93 DATA SRR1; INPUT ROUTE RTY EST; CARDS;

NOTE: The data set WORK.SRR1 has 77 observations and 3 variables.
NOTE: The DATA statement used 0.00 CPU seconds and 7707K.

171 ;
172 DATA SRR11; INPUT ROUTE RTY EST; CARDS;

NOTE: The data set WORK.SRR11 has 77 observations and 3 variables.
NOTE: The DATA statement used 0.00 CPU seconds and 7707K.

250 ;
251 DATA I2 (DROP=X); INPUT INTERCEP ; CARDS;

WARNING: The variable X in the DROP, KEEP, or RENAME list has never been referenced.

NOTE: The data set WORK.I2 has 1 observations and 1 variables.
NOTE: The DATA statement used 0.00 CPU seconds and 7707K.

253 ;
254 DATA RR2 ; INPUT ROUTE RTY EST ; CARDS;

NOTE: The data set WORK.RR2 has 77 observations and 3 variables.
NOTE: The DATA statement used 0.00 CPU seconds and 7707K.

332 ;
333 DATA SRR2 ; INPUT ROUTE RTY EST ; CARDS;

NOTE: The data set WORK.SRR2 has 77 observations and 3 variables.
NOTE: The DATA statement used 0.00 CPU seconds and 7707K.

411 ;
412 DATA SRR22 ; INPUT ROUTE RTY EST ; CARDS;

NOTE: The data set WORK.SRR22 has 77 observations and 3 variables.
 NOTE: The DATA statement used 0.01 CPU seconds and 7707K.

```

490      ;
491      DATA IN (KEEP=CSTOPS TESTNUM RTY); SET IN.FOOT;
492      ARRAY STOP(I) STOP1-STOP5;
493      ARRAY RTIME(I) RTIME1-RTIME5;
494      IF TESTNUM=159 THEN RTY=3;
495      IF TESTNUM=261 THEN DELETE;
496      S1=SUM(OF RTIME1-RTIME5); IF S1 NE .;
497      S2=SUM(OF STOP1-STOP5); IF S2 NE .;
498

```

NOTE: There were 78 observations read from the data set IN.FOOT.
 NOTE: The data set WORK.IN has 77 observations and 3 variables.
 NOTE: The DATA statement used 0.02 CPU seconds and 7904K.

```

499      DATA IN (DROP=TESTNUM); SET IN; ROUTE=TESTNUM;

```

NOTE: There were 77 observations read from the data set WORK.IN.
 NOTE: The data set WORK.IN has 77 observations and 3 variables.
 NOTE: The DATA statement used 0.00 CPU seconds and 7904K.

```

501      PROC SORT DATA=IN; BY ROUTE RTY;
13      The SAS System

```

NOTE: There were 77 observations read from the data set WORK.IN.
 NOTE: The data set WORK.IN has 77 observations and 3 variables.
 NOTE: The PROCEDURE SORT used 0.00 CPU seconds and 7996K.

```

502      PROC SORT DATA=SRR1; BY ROUTE RTY;

```

NOTE: There were 77 observations read from the data set WORK.SRR1.
 NOTE: The data set WORK.SRR1 has 77 observations and 3 variables.
 NOTE: The PROCEDURE SORT used 0.00 CPU seconds and 7996K.

```

503      PROC SORT DATA=SRR2; BY ROUTE RTY;

```

NOTE: There were 77 observations read from the data set WORK.SRR2.
 NOTE: The data set WORK.SRR2 has 77 observations and 3 variables.
 NOTE: The PROCEDURE SORT used 0.00 CPU seconds and 7996K.

504 PROC SORT DATA=SRR11; BY ROUTE RTY;

NOTE: There were 77 observations read from the data set WORK.SRR11.
 NOTE: The data set WORK.SRR11 has 77 observations and 3 variables.
 NOTE: The PROCEDURE SORT used 0.00 CPU seconds and 7996K.

505 PROC SORT DATA=SRR22; BY ROUTE RTY;

NOTE: There were 77 observations read from the data set WORK.SRR22.
 NOTE: The data set WORK.SRR22 has 77 observations and 3 variables.
 NOTE: The PROCEDURE SORT used 0.00 CPU seconds and 7996K.

507 DATA SRR1; MERGE SRR1 IN; BY ROUTE RTY;
 508 STOPSD=.9241*CSTOPS*EST; * SDR COVERAGE;
 509 STOPMD=.9833*CSTOPS*EST; * MDR COVERAGE;
 510 STOPBA=.8917*CSTOPS*EST; * BAM COVERAGE;
 511 BLEST= EST;
 512 STSD=.9241*CSTOPS;
 513 STMD=.9833*CSTOPS;
 514 STBA=.8917*CSTOPS;

NOTE: There were 77 observations read from the data set WORK.SRR1.
 NOTE: There were 77 observations read from the data set WORK.IN.
 NOTE: The data set WORK.SRR1 has 77 observations and 11 variables.
 NOTE: The DATA statement used 0.01 CPU seconds and 8124K.

516 DATA SRR1; MERGE SRR1 IN; BY ROUTE RTY;
 517 STOPSDQ=EST*(.9241*CSTOPS)**2;
 518 STOPMDQ=EST*(.9833*CSTOPS)**2;
 519 STOPBAQ=EST*(.8917*CSTOPS)**2;
 520 STSDQ=EST*(.9241*CSTOPS);
 521 STMDQ=EST*(.9833*CSTOPS);
 522 STBAQ=EST*(.8917*CSTOPS);

NOTE: There were 77 observations read from the data set WORK.SRR11.
 NOTE: There were 77 observations read from the data set WORK.IN.
 NOTE: The data set WORK.SRR11 has 77 observations and 10 variables.
 NOTE: The DATA statement used 0.01 CPU seconds and 8124K.

525 PROC MEANS NOPRINT DATA=ERR1;
 526 VAR EST; OUTPUT OUT=ERR1 MEAN=SEST;
 14 The SAS System

NOTE: There were 77 observations read from the data set WORK.ERR1.
 NOTE: The data set WORK.ERR1 has 1 observations and 3 variables.
 NOTE: The PROCEDURE MEANS used 0.01 CPU seconds and 8460K.

```
528      PROC MEANS NOPRINT DATA=SRR11;
529          VAR STOPSD STOPMD STOPBA BLEST STSD STMD STBA;
530          OUTPUT OUT=IN1 MEAN= SDSUM MDSUM BASUM B1SUM STSDM STMDM STBAQM;
```

NOTE: There were 77 observations read from the data set WORK.SRR1.
 NOTE: The data set WORK.IN1 has 1 observations and 9 variables.
 NOTE: The PROCEDURE MEANS used 0.00 CPU seconds and 8460K.

```
532      PROC MEANS NOPRINT DATA=SRR11;
533          VAR STOPSDQ STOPMDQ STOPBAQ STSDQ STMDQ STBAQ;
534          OUTPUT OUT=IN11 MEAN= SDSUMQ MDSUMQ BASUMQ STSDQM STMDQM STBAQM;
```

NOTE: There were 77 observations read from the data set WORK.SRR11.
 NOTE: The data set WORK.IN11 has 1 observations and 8 variables.
 NOTE: The PROCEDURE MEANS used 0.01 CPU seconds and 8460K.

```
536      DATA EL1; MERGE I1 ERR1 IN1 IN11;
537          N1 = SDSUM+2*SDSUMQ;
538          D1 = INTERCEP+SEST+SDSUM+SDSUMQ; ELASSDR=N1/D1;
539          N2 = MDSUM+2*MDSUMQ;
540          D2 = INTERCEP+SEST+MDSUM+MDSUMQ; ELASMDR=N2/D2;
541          N3 = BASUM+2*BASUMQ;
542          D3 = INTERCEP+SEST+BASUM+BASUMQ; ELASBAM=N3/D3;
```

NOTE: There were 1 observations read from the data set WORK.I1.
 NOTE: There were 1 observations read from the data set WORK.ERR1.
 NOTE: There were 1 observations read from the data set WORK.IN1.
 NOTE: There were 1 observations read from the data set WORK.IN11.
 NOTE: The data set WORK.EL1 has 1 observations and 26 variables.
 NOTE: The DATA statement used 0.01 CPU seconds and 8460K.

```
544      PROC PRINT DATA=EL1 SPLIT='*';
545          VAR D1 D2 D3 ELASSDR ELASMDR ELASBAM ;
546          FORMAT ELASSDR ELASMDR ELASBAM 8.6;
547          LABEL ELASSDR='ELASTICITY*AT SDR COVERAGE';
548          LABEL ELASMDR='ELASTICITY*AT MDR COVERAGE';
```

549 LABEL ELASBAM='ELASTICITY*AT BAM COVERAGE';
 550 TITLE1 'PRC R90 MODEL WITH CCS00 COVERAGE';
 551 TITLE2 'ELASTICITIES FOR FOOT DATA';

NOTE: There were 1 observations read from the data set WORK.EL1.

NOTE: The PROCEDURE PRINT printed page 1.

NOTE: The PROCEDURE PRINT used 0.02 CPU seconds and 8837K.

NOTE: The SAS session used 0.23 CPU seconds and 8837K.

NOTE: SAS Institute Inc., SAS Campus Drive, Cary, NC USA 27513-2414

1 PRC R90 MODEL WITH CCS00 COVERAGE
 ELASTICITIES FOR FOOT DATA

Obs	D1	D2	D3	AT SDR COVERAGE AT MDR COVERAGE AT BAM COVERAGE	ELASTICITY	ELASTICITY	ELASTICITY
1	1275.58	1333.52	1244.75	0.696298	0.734556	0.674787	

PRC LOOP SPLIT FACTORS

```

08.26.57 JOB02370 ---- WEDNESDAY, 21 NOV 2001 ----
08.26.57 JOB02370 $HASP373 H39008T STARTED - WLM INIT - SRVCLASS BATCHSTD - SYS SMPA
08.26.57 JOB02370 ACF9CCCD USERID H39008 IS ASSIGNED TO THIS JOB - H39008T
08.26.57 JOB02370 IEF196I ACF9CCCD USERID H39008 IS ASSIGNED TO THIS JOB - H39008T
08.26.57 JOB02370 USRUJI-01 JOB H39008T USING LOGONID H39008
08.26.57 JOB02370 IEF196I USRUJI-01 JOB H39008T USING LOGONID H39008
08.26.57 JOB02370 IEF403I H39008T - STARTED - TIME=08.26.57
08.26.57 JOB02370 -
PAGING COUNTS---
08.26.57 JOB02370 -JOBNAME STEPNAME PROCSTEP RC EXCP CONN TCB SRB CLOCK SERV PG PAGE
SWAP VIO SWAPS -H39008T STEP100 00 0 0 .00 .0 55 0 0
08.26.57 JOB02370 0 0 08.27.01 JOB02370 -H39008T STEP200 SAS8 00 1949 2128 .00 .0 4424 0 0
08.27.01 JOB02370 0 0 08.27.01 JOB02370 IEF404I H39008T - ENDED - TIME=08.27.01
08.27.01 JOB02370 -H39008T ENDED. NAME-KAY 26 TOTAL TCB CPU TIME= .00 TOTAL ELAPSED
TIME=.0
0----- JES2 JOB STATISTICS -----
- 21 NOV 2001 JOB EXECUTION DATE
- 1,323 CARDS READ
- 416 SYSOUT PRINT RECORDS
- 0 SYSOUT PUNCH RECORDS
- 21 SYSOUT SPOOL KBYTES
- 0.07 MINUTES EXECUTION TIME

1 //H39008T JOB (ALD04),'KAY 26',
// CLASS=B,MSGCLASS=H,NOTIFY=H39008
/*ROUTE PRINT R77
/* $ACFJ219 ACF2 ACTIVE SM1
//
//* CCS.CATFAT.LOOPBY00 PRC LOOP SPLIT FACTOR
//* *****
//*

```

JOB02370

ACF2

```

//**
//***** WITH 00 COVERAGE *****
2 //SAS8 PROC ENTRY=SASHOST,
//      PRODFIX='SAS.8',
//      CONFIG=NULLFILE,
//      OPTIONS='MEMSIZE=24M',
//      WORK='300,300'
//*****
//** PRODUCT: MVS SAS RELEASE 8
//** DOCUMENTATION: SAS COMPANION FOR THE MVS ENVIRONMENT, V6
//** FROM: SAS INSTITUTE INC., BOX 8000, CARY, NC 27512-8000
//*****
//*****
//SAS8 EXEC PGM=&ENTRY,PARM='&OPTIONS',REGION=8192K
//STEPLIB DD DISP=SHR,DSN=&PRODFIX..LIBRARY
//CONFIG DD DISP=SHR,DSN=&PRODFIX..CNTL(BATCHXA)
//      DD DISP=SHR,DSN=&CONFIG
//SASAUTOS DD DISP=SHR,DSN=&PRODFIX..AUTOLIB
//SASHELP DD DISP=SHR,DSN=&PRODFIX..SASHELP
//SASMSG DD DISP=SHR,DSN=&PRODFIX..SASMSG
//WORK DD UNIT=SYSDA,SPACE=(CYL,(&WORK),,ROUND),
//      DCB=(RECFM=FS,DSORG=PS,LRECL=6144,BLKSIZE=6144)
//SASLOG DD SYSOUT=*
//SASLIST DD SYSOUT=*
//SASPARM DD UNIT=SYSDA,SPACE=(6120,(2000,2000)),
//      DCB=(RECFM=FB,LRECL=80,BLKSIZE=400,BUFNO=1)
//SYSUDUMP DD SYSOUT=*
//** ADD A LINE LIKE THE FOLLOWING TO CREATE A MACHINE-READABLE DUMP
//*SYSDUMP DD DSN=DUMP,UNIT=SYSDA,DISP=(NEW,CATLG),SPACE=(TRK,(20,5))
// PEND
//*-----
//**
3 //STEP100 EXEC PGM=IEFBR14
4 //STEP200 EXEC SAS,REGION=25000K
5 KXSAS8 PROC ENTRY=SASXAL,
XX      CONFIG=NULLFILE,
XX      LOAD='*.NULLPDS,VOL=REF=*.NULLPDS',
XX      SASAUTO='*.NULLPDS,VOL=REF=*.NULLPDS',
XX      OPTIONS=,
XX      SORT=4,
XX      DB2SYS=DPRO,
XX      WORK='500,200'

```

```

00001900
00002000
00002100
00002200
00002300
00002400
00002500
00002600
00002700
00002800

```

```

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XX* PRODUCT: MVS SAS RELEASE 8
XX* DOCUMENTATION: SAS COMPANION FOR THE MVS ENVIRONMENT, VERSION 8 **
XX* FROM: SAS INSTITUTE INC., SAS CAMPUS DRIVE, CARY, NC 27513 USA **
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

6 XXSAS8 EXEC PGM=&ENTRY,PARM='SORT=&SORT &OPTIONS',REGION=4096K
IEFC653I SUBSTITUTION JCL - PGM=SASX1,PARM='SORT=4 ',REGION=4096K
7 XXNULLPDS DD DISP=(NEW,PASS),DSN=&NULLPDS,UNIT=WORK,
XX SPACE=(TRK,(1,1,1)),DCB=BLKSIZE=6160,DSNTYPE=PDS
8 XXSTEPLIB DD DISP=(SHR,PASS),DSN=&LOAD
IEFC653I SUBSTITUTION JCL - DISP=(SHR,PASS),DSN=*.NULLPDS,VOL=REF=*.NULLPDS
9 XX DD DISP=SHR,DSN=SAS.V8R1.LIBRARY
10 XX DD DISP=SHR,DSN=SYS3X.DB2.&DB2SYS..LOAD FOR DB2
IEFC653I SUBSTITUTION JCL - DISP=SHR,DSN=SYS3X.DB2.DPR0.LOAD
11 XX DD DISP=SHR,DSN=SYS3.&DB2SYS..DSNEXIT FOR DB2
IEFC653I SUBSTITUTION JCL - DISP=SHR,DSN=SYS3.DPR0.DSNEXIT
12 XXTRANS DD DISP=SHR,DSN=SAS.V8R1.SASC.TRANSLIB
XX** UNCOMMENT/SUPPLY YOUR DSN IF YOU NEED TO CONCATENATE SORT LIB
XX** DD DISP=SHR,DSN=SYS1.SORT.LINKLIB
13 XXCONFIG DD DISP=SHR,DSN=SAS.V8R1.CNTL(BATCH)
14 XX DD DISP=SHR,DSN=&CONFIG
IEFC653I SUBSTITUTION JCL - DISP=SHR,DSN=NULLFILE
15 XXSASAUTOS DD DISP=(SHR,PASS),DSN=&SASAUTO
IEFC653I SUBSTITUTION JCL - DISP=(SHR,PASS),DSN=*.NULLPDS,VOL=REF=*.NULLPDS
16 XX DD DISP=SHR,DSN=SAS.V8R1.AUTOLIB
17 XXSASHELP DD DISP=SHR,DSN=SAS.V8R1.SASHELP
18 XXSASMSG DD DISP=SHR,DSN=SAS.V8R1.SASMSG
19 XXWORK DD UNIT=DISK,SPACE=(6144,(&WORK),,ROUND),
XX DCB=(RECFM=FS,LRECL=6144,BLKSIZE=6144,DSORG=PS)
IEFC653I SUBSTITUTION JCL -
UNIT=DISK,SPACE=(6144,(500,200),,ROUND),DCB=(RECFM=FS,LRECL=6144,BLKSIZE=6144,
DSORG=PS)
20 XXSASLOG DD SYSOUT=*
21 XXSASCLOG DD SYSOUT=*
22 XXSASLIST DD SYSOUT=*
23 XXSASPARM DD UNIT=DISK,SPACE=(400,(100,300)),
XX DCB=(RECFM=FB,LRECL=80,BLKSIZE=400,BUFNO=1)
24 XXSYSUDUMP DD SYSOUT=*
XX** ADD A LINE LIKE THE FOLLOWING TO CREATE A MACHINE-READABLE DUMP
XX*SYSDUMP DD DSN=DUMP,UNIT=SYSDA,DISP=(NEW,CATLG),SPACE=(TRK,(20,5))
25 //IN DD DSN=H30005.LOOP.SAS,DISP=SHR
26 //SYSIN DD *

```

STMT NO. MESSAGE

4 IEF0001I PROCEDURE SAS WAS EXPANDED USING SYSTEM LIBRARY SYS3.PROCLIB

IEF142I H39008T STEP100 - STEP WAS EXECUTED - COND CODE 0000

IEF373I STEP/STEP100 /START 2001325.0826

IEF374I STEP/STEP100 /STOP 2001325.0826 CPU 0MIN 00.01SEC SRB 0MIN 00.00SEC VIRT 8K SYS 216K
EXT 4K SYS 8452K

IEF236I ALLOC. FOR H39008T SAS8 STEP200

IGD101I SMS ALLOCATED TO DDNAME (NULLPDS)

DSN (SYS01325.T082657.RA000.H39008T.NULLPDS.H0C)

STORCLAS (SCVIO) MGMTCLAS () DATACLAS ()

VOL SER NOS= VIO

IGD103I SMS ALLOCATED TO DDNAME STEPLIB

IGD103I SMS ALLOCATED TO DDNAME

IEF237I 0950 ALLOCATED TO

IGD103I SMS ALLOCATED TO DDNAME

IGD103I SMS ALLOCATED TO DDNAME CTRANS

IGD103I SMS ALLOCATED TO DDNAME CONFIG

IEF237I DMY ALLOCATED TO

IGD103I SMS ALLOCATED TO DDNAME SASAUTOS

IGD103I SMS ALLOCATED TO DDNAME

IGD103I SMS ALLOCATED TO DDNAME SASHELP

IGD103I SMS ALLOCATED TO DDNAME SASMSG

IGD101I SMS ALLOCATED TO DDNAME (WORK)

DSN (SYS01325.T082657.RA000.H39008T.R0C64949)

STORCLAS (SCVIO) MGMTCLAS () DATACLAS ()

VOL SER NOS= VIO

IEF237I JES2 ALLOCATED TO SASLOG

IEF237I JES2 ALLOCATED TO SASLOG

IEF237I JES2 ALLOCATED TO SASLIST

IGD101I SMS ALLOCATED TO DDNAME (SASPARM)

DSN (SYS01325.T082657.RA000.H39008T.R0C64950)

STORCLAS (SCVIO) MGMTCLAS () DATACLAS ()

VOL SER NOS= VIO

IEF237I JES2 ALLOCATED TO SYSUDUMP

IGD103I SMS ALLOCATED TO DDNAME IN

IEF237I JES2 ALLOCATED TO SYSIN

IGD104I SAS.V8R1.SASC.TRANSLIB

IGD103I SMS ALLOCATED TO DDNAME CTRANS

IEF237I B889 ALLOCATED TO SYS00001

IGD103I SMS ALLOCATED TO DDNAME SYS00002

IGD104I SAS.V8R1.NEWS

IEF285I SAS.V8R1.SASHELP

RETAINED, DDNAME=CTTRANS

RETAINED, DDNAME=SYS00002
KEPT

```

IEF285I VOL SER NOS= S0A1J1.
IEF142I H39008T SAS8 STEP200 - STEP WAS EXECUTED - COND CODE 0000
IGD104I SAS.V8R1.LIBRARY RETAINED, DDNAME=
IEF285I SYS3X.DB2.DPRO.LOAD KEPT
IEF285I VOL SER NOS= S09000.
IGD104I SYS3.DPRO.DSNEXIT
IGD104I SAS.V8R1.CNTL
IGD104I SAS.V8R1.AUTOLIB
IGD104I SAS.V8R1.SASHELP
IGD104I SAS.V8R1.SASMSG
IGD105I SYS01325.T082657.RA000.H39008T.R0C64949
IEF285I H39008.H39008T.JOB02370.D0000102.? SYSOUT
IEF285I H39008.H39008T.JOB02370.D0000103.? SYSOUT
IEF285I H39008.H39008T.JOB02370.D0000104.? SYSOUT
IGD105I SYS01325.T082657.RA000.H39008T.R0C64950 DELETED, DDNAME=SASPARM
IEF285I H39008.H39008T.JOB02370.D0000105.? SYSOUT
IGD104I H30005.LOOP.SAS RETAINED, DDNAME=IN
IEF285I H39008.H39008T.JOB02370.D0000101.? SYSIN
IGD104I SAS.V8R1.SASC.TRANS LIB RETAINED, DDNAME=CTRANS
IEF373I STEP/SAS8 /START 2001325.0826
IEF374I STEP/SAS8 /STOP 2001325.0827 CPU OMIN 00.32SEC SRB OMIN 00.03SEC VIRT 1012K SYS 312K
EXT 8356K SYS 8772K
IGD105I SYS01325.T082657.RA000.H39008T.NULLPDS.H0C DELETED, DDNAME=NULLPDS
IEF375I JOB/H39008T /START 2001325.0826
IEF376I JOB/H39008T /STOP 2001325.0827 CPU OMIN 00.33SEC SRB OMIN 00.03SEC
11 The SAS System

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Wednesday, November 21, 200

1

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NOTE: SAS (x) Proprietary Software Release 8.1 (TS1M0)

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NOTE: This session is executing on the OS/390 V02R10M00 platform.

NOTE: Running on AMDAHL Model 9672 Serial Number 012084,

AMDAHL Model 9672 Serial Number 112084,

AMDAHL Model 9672 Serial Number 212084,

AMDAHL Model 9672 Serial Number 312084,

AMDAHL Model 9672 Serial Number 412084,

AMDAHL Model 9672 Serial Number 512084,

AMDAHL Model 9672 Serial Number 612084,

AMDAHL Model 9672 Serial Number 712084.

08:26

Welcome to the SAS Information Delivery System,

888 8 Release 8.11

8 8 88

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8 88 8 8

This is the latest version of SAS.V8R1
If you experience any problems contact
Theresa Turner ext 5133

NOTE: The SASUSER library was not specified. SASUSER library will now be the same as the WORK library.
NOTE: All data sets and catalogs in the SASUSER library will be deleted at the end of the session. Use
the NOWORKTERM option to
prevent their deletion.

NOTE: SAS system options specified are:
SORT=4

NOTE: The initialization phase used 0.06 CPU seconds and 7170K.

1 *****
2 *** CALCULATION OF CATFAT SPLIT FACTORS. COEFFICIENTS ARE ***
3 *** EXTRACTED FROM CASE 1 REGRESSION RESULTS ***
4 *****

5
6 OPTIONS LINESIZE=80 NODATE ;

8 *** CALCULATE SPLIT FACTORS FOR CATFAT 1989 PARK AND LOOP DATA ***;
10 DATA I1 ; INPUT INTERCEP ;CARDS;

NOTE: The data set WORK.I1 has 1 observations and 1 variables.

NOTE: The DATA statement used 0.05 CPU seconds and 7707K.

12 ;
13 DATA PRL ; INPUT ROUTE RTY EST ; CARDS;

NOTE: The data set WORK.RR1 has 199 observations and 3 variables.
 NOTE: The DATA statement used 0.01 CPU seconds and 7707K.

12 The SAS System

213 ;
 214 DATA SRR1 ; INPUT ROUTE RTY EST; CARDS;

NOTE: The data set WORK.SRR1 has 199 observations and 3 variables.
 NOTE: The DATA statement used 0.01 CPU seconds and 7707K.

414 ;
 415 DATA SRR11 ; INPUT ROUTE RTY EST; CARDS;

NOTE: The data set WORK.SRR11 has 199 observations and 3 variables.
 NOTE: The DATA statement used 0.01 CPU seconds and 7707K.

615 ;
 616 DATA I2 ; INPUT INTERCEP ;CARDS;

NOTE: The data set WORK.I2 has 1 observations and 1 variables.
 NOTE: The DATA statement used 0.00 CPU seconds and 7707K.

618 ;
 619 DATA RR2 ; INPUT ROUTE RTY EST ; CARDS;

NOTE: The data set WORK.RR2 has 199 observations and 3 variables.
 NOTE: The DATA statement used 0.01 CPU seconds and 7707K.

819 ;
 820 DATA SRR2 ; INPUT ROUTE RTY EST; CARDS;

NOTE: The data set WORK.SRR2 has 199 observations and 3 variables.
 NOTE: The DATA statement used 0.01 CPU seconds and 7707K.

1020 ;
 1021 DATA SRR22 ; INPUT ROUTE RTY EST; CARDS;

NOTE: The data set WORK.SRR22 has 199 observations and 3 variables.
 NOTE: The DATA statement used 0.01 CPU seconds and 7707K.

```

1221      DATA IN (KEEP=CSTOPS TESTNUM RTY); SET IN.LOOP;
1222      ARRAY STOP(I) STOP1-STOP5;
1223      ARRAY RTIME(I) RTIME1-RTIME5;
1224      IF TESTNUM=157 THEN RTY=4;
1225      S1=SUM(OF RTIME1-RTIME5); IF S1 NE .;
1226      S2=SUM(OF STOP1-STOP5); IF S2 NE .;
1227

```

NOTE: There were 199 observations read from the data set IN.LOOP.
 NOTE: The data set WORK.IN has 199 observations and 3 variables.
 NOTE: The DATA statement used 0.02 CPU seconds and 7904K.

```

1228      DATA IN (DROP=TESTNUM); SET IN; ROUTE=TESTNUM;

```

NOTE: There were 199 observations read from the data set WORK.IN.
 NOTE: The data set WORK.IN has 199 observations and 3 variables.
 NOTE: The DATA statement used 0.00 CPU seconds and 7904K.

```

1230      PROC SORT DATA=IN; BY ROUTE RTY;

```

NOTE: There were 199 observations read from the data set WORK.IN.
 NOTE: The data set WORK.IN has 199 observations and 3 variables.

13 The SAS System

```

NOTE: The PROCEDURE SORT used 0.00 CPU seconds and 7996K.

```

```

1231      PROC SORT DATA=SRR1; BY ROUTE RTY;

```

NOTE: There were 199 observations read from the data set WORK.SRR1.
 NOTE: The data set WORK.SRR1 has 199 observations and 3 variables.
 NOTE: The PROCEDURE SORT used 0.00 CPU seconds and 7996K.

```

1232      PROC SORT DATA=SRR2; BY ROUTE RTY;

```

NOTE: There were 199 observations read from the data set WORK.SRR2.
 NOTE: The data set WORK.SRR2 has 199 observations and 3 variables.
 NOTE: The PROCEDURE SORT used 0.00 CPU seconds and 7996K.

```

1233      PROC SORT DATA=SRR11; BY ROUTE RTY;

```

NOTE: There were 199 observations read from the data set WORK.SRR11.
 NOTE: The data set WORK.SRR11 has 199 observations and 3 variables.

NOTE: The PROCEDURE SORT used 0.00 CPU seconds and 7996K.

1234 PROC SORT DATA=SRR22; BY ROUTE RTY;

NOTE: There were 199 observations read from the data set WORK.SRR22.

NOTE: The data set WORK.SRR22 has 199 observations and 3 variables.

NOTE: The PROCEDURE SORT used 0.00 CPU seconds and 7996K.

```

1236 DATA SRR1; MERGE SRR1 IN; BY ROUTE RTY; * FACTORS FROM CCS 99-7.0.4.1
1237 ;
1238 STOPSD=.9343*CSTOPS*EST; * SDR COVERAGE;
1239 STOPMD=.9740*CSTOPS*EST; * MDR COVERAGE;
1240 STOPBA=.9079*CSTOPS*EST; * BAM COVERAGE;
1241 B1EST=EST;
1242 STSD=.9343*CSTOPS;
1243 STMD=.9740*CSTOPS;
1244 STBA=.9079*CSTOPS;

```

NOTE: There were 199 observations read from the data set WORK.SRR1.

NOTE: There were 199 observations read from the data set WORK.IN.

NOTE: The data set WORK.SRR1 has 199 observations and 11 variables.

NOTE: The DATA statement used 0.01 CPU seconds and 8124K.

```

1245 DATA SRR11; MERGE SRR11 IN; BY ROUTE RTY;
1246 STOPSDQ=EST*(.9343*CSTOPS)**2;
1247 STOPMDQ=EST*(.9740*CSTOPS)**2;
1248 STOPBAQ=EST*(.9079*CSTOPS)**2;
1249 STSDQ=EST*(.9343*CSTOPS);
1250 STMDQ=EST*(.9740*CSTOPS);
1251 STBAQ=EST*(.9079*CSTOPS);

```

NOTE: There were 199 observations read from the data set WORK.SRR11.

NOTE: There were 199 observations read from the data set WORK.IN.

NOTE: The data set WORK.SRR11 has 199 observations and 10 variables.

NOTE: The DATA statement used 0.01 CPU seconds and 8124K.

```

1253 PROC MEANS NOPRINT DATA=RR1;
1254 VAR EST; OUTPUT OUT=ERR1 MEAN=SEST;

```

NOTE: There were 199 observations read from the data set WORK.RR1.

The SAS System

NOTE: The data set WORK.ERR1 has 1 observations and 3 variables.
 NOTE: The PROCEDURE MEANS used 0.01 CPU seconds and 8460K.

```
1256      PROC MEANS NOPRINT DATA=SRR1;
1257      VAR STOPSD STOPMD STOPBA B1EST STSD STMD STBA;
1258      OUTPUT OUT=IN1 MEAN= SDSUM MDSUM BASUM B1SUM STSDM STMDM STBAM;
```

NOTE: There were 199 observations read from the data set WORK.SRR1.
 NOTE: The data set WORK.IN1 has 1 observations and 9 variables.
 NOTE: The PROCEDURE MEANS used 0.01 CPU seconds and 8460K.

```
1260      PROC MEANS NOPRINT DATA=SRR1;
1261      VAR STOPSDQ STOPMDQ STOPBAQ STSDQ STMDQ STBAQ;
1262      OUTPUT OUT=IN11 MEAN= SDSUMQ MDSUMQ BASUMQ STSDQM STMDQM STBAQM;
1263      *;
```

NOTE: There were 199 observations read from the data set WORK.SRR11.
 NOTE: The data set WORK.IN11 has 1 observations and 8 variables.
 NOTE: The PROCEDURE MEANS used 0.01 CPU seconds and 8460K.

```
1264      DATA EL1; MERGE I1 ERR1 IN1 IN11;
1265      N1 = SDSUM+2*SDSUMQ;
1266      D1 = INTERCEP+SEST+SDSUM+SDSUMQ; ELASSDR=N1/D1;
1267      N2 = MDSUM+2*MDSUMQ;
1268      D2 = INTERCEP+SEST+MDSUM+MDSUMQ; ELASMDR=N2/D2;
1269      N3 = BASUM+2*BASUMQ;
1270      D3 = INTERCEP+SEST+BASUM+BASUMQ; ELASBAM=N3/D3;
```

NOTE: There were 1 observations read from the data set WORK.I1.
 NOTE: There were 1 observations read from the data set WORK.ERR1.
 NOTE: There were 1 observations read from the data set WORK.IN1.
 NOTE: There were 1 observations read from the data set WORK.IN11.
 NOTE: The data set WORK.EL1 has 1 observations and 26 variables.
 NOTE: The DATA statement used 0.01 CPU seconds and 8460K.

```
1272      PROC PRINT DATA=EL1 SPLIT='*';
1273      VAR D1 D2 D3 ELASSDR ELASMDR ELASBAM ;
1274      FORMAT ELASSDR ELASMDR ELASBAM 8.6;
1275      LABEL ELASSDR='ELASTICITY*AT SDR COVERAGE';
1276      LABEL ELASMDR='ELASTICITY*AT MDR COVERAGE';
1277      LABEL ELASBAM='ELASTICITY*AT BAM COVERAGE';
1278      TITLE1 'PRC R90 MODEL WITH CCS00 COVERAGE';
```

1279 TITLE2 'ELASTICITIES FOR LOOP DATA1';

NOTE: There were 1 observations read from the data set WORK.EL1.

NOTE: The PROCEDURE PRINT printed page 1.

NOTE: The PROCEDURE PRINT used 0.02 CPU seconds and 8837K.

NOTE: The SAS session used 0.27 CPU seconds and 8837K.

NOTE: SAS Institute Inc., SAS Campus Drive, Cary, NC USA 27513-2414

1 PRC R90 MODEL WITH CCS00 COVERAGE

ELASTICITIES FOR LOOP DATA1

Obs	D1	D2	D3	AT SDR COVERAGE AT MDR COVERAGE AT BAM COVERAGE	ELASTICITY	ELASTICITY	ELASTICITY
1	1588.67	1628.30	1563.35	0.573230	0.610989	0.548014	

4. Floppy Disks Containing CCS.CATFAT.CURB00.CNTL,
CCS.CATFAT.FOOT00.CNTL, and CCS.CATFAT.LOOP00.CNTL.