

JES2 JOB LOG

11.18.52 JOB 192 \$HASP373 T8320S13 STARTED - INIT 2 - CLASS K - SYS IPOI

11.18.52 JOB 192 IEF403I T8320S13 - STARTED - TIME=11.18.52

11.19.01 JOB 192 *IEF233A M 280,MUMPS1,T8320S13,SAS

11.20.10 JOB 192 *IEF234E K 280,MUMPS1,PVT,T8320S13,SAS

11.20.11 JOB 192 -

				--TIMINGS (MINS.)--				----PAGING COUNTS----						
				EXCP	CPU	SRB	CLOCK	SERV	PG	PAGE	SWAP	VIO	SWAPS	RC
11.20.11	JOB	192	-T8320S13 SAS	116	.09	.00	1.3	4982	1	25	0	0	0	00

11.20.12 JOB 192 IEF404I T8320S13 - ENDED - TIME=11.20.12

11.20.12 JOB 192 -T8320S13 ENDED. NAME=PLP

TOTAL CPU TIME= .09 TOTAL ELAPSED TIME= 1.3

11.20.13 JOB 192 \$HASP395 T8320S13 ENDED

----- JES2 JOB STATISTICS -----

23 JUL 81 JOB EXECUTION DATE

146 CARDS READ

449 SYSOUT PRINT RECORDS

0 SYSOUT PUNCH RECORDS

1.37 MINUTES EXECUTION TIME

DO 095396
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1 //T8320S13 JOB 'SAS ANALYSIS-LAB',PLP,COND=(5,LT),CLASS=K JOB 192
2 // EXEC SAS
3 XXSAS PROC OPTIONS=,SORT=4,ENTRY=SAS 01400310
***** 01400320
*** STATISTICAL ANALYSIS SYSTEM, VERSION 79.5 *** 01400330
*** DOCUMENTATION: SAS USER'S GUIDE, 1979 EDITION *** 01400340
*** ENHANCEMENTS: SAS TECHNICAL REPORT P-115 *** 01400350
*** FROM: SAS INSTITUTE INC., BOX 8000, CARY, NC 27511 *** 01400360
***** 01400370
4 XXSAS EXEC PGM=GENTRY,PARM=*,OPTIONS SORT=ESORT 01400380
5 XXLIBRARY DD DSN=ELIBRARY,UNIT=SYSDA,SPACE=(CYL,(1,,20)), 01400390
XX DISP=(MOD,PASS) 01400400
6 XXSTEPLIB DD DSN=SAS795.LIBRARY,DISP=SHR 01400410
7 XX DD DSN=PLI.LINKLIB,DISP=SHR <===VERIFY 01400420
8 XX DD DSN=ICE.LINKLIB,DISP=SHR <===VERIFY 01400430
9 XX DD DSN=*.LIBRARY,DISP=(OLD,PASS),VOL=REF=*.LIBRARY 01400440
10 XXWORK DD UNIT=SYSDA,SPACE=(6160,(500,200),,ROUND) SAS WORK SPACE 01400450
11 XXFT11F001 DD SYSOUT=A,DCB=(BLKSIZE=141,LRECL=137,RECFM=VBA) LOG 01400460
12 XXFT12F001 DD SYSOUT=A,DCB=(BLKSIZE=141,LRECL=137,RECFM=VBA) PRINT 01400470
13 XXFT13F001 DD SYSOUT=B,DCB=(RECFM=F,BLKSIZE=80) PUNCH 01400480
14 XXFT15F001 DD UNIT=SYSDA,SPACE=(400,(100,300)), PARMCARDS 01400490
XX DCB=(RECFM=FB,LRECL=80,BLKSIZE=400,BUFNO=1) 01400500
***** SORT UTILITY DATA SET DEFINITIONS (NOT NEEDED IF MVS) 01400510
15 XXSYSOUT DD SYSOUT=A,DCB=BUFNO=1 OR DDNAME=SORTMSG 01400520
16 XXSORTLIB DD DSN=ICE.SORTLIB,DISP=SHR 01400530
17 XXSORTWK01 DD SPACE=(CYL,(ESORT),,CONTIG),UNIT=SYSDA 01400540
18 XXSORTWK02 DD SPACE=(CYL,(ESORT),,CONTIG),UNIT=(SYSDA,,SEP=(SORTWK01)) 01400550
19 XXSORTWK03 DD SPACE=(CYL,(ESORT),,CONTIG),UNIT=(SYSDA,,SEP=(SORTWK01, 01400560
XX SORTWK02)) 01400570
20 //A1 DD DSN=MUMPS.SRC,
// UNIT=TAPE,
// VOL=SER=MUMPS1,
// DCB=(LRECL=80,BLKSIZE=400,RECFM=FB),
// DISP=(NEW,DELETE,DELETE)
21 //SYSIN DD * GENERATED STATEMENT
//

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STMT NO. MESSAGE

4	IEF6531	SUBSTITUTION JCL - PGM=SAS,PARM=' SORT=4'	
17	IEF6531	SUBSTITUTION JCL - SPACE=(CYL,(4),,CONTIG),UNIT=SYSDA	
18	IEF6531	SUBSTITUTION JCL - SPACE=(CYL,(4),,CONTIG),UNIT=(SYSDA,,SEP=(SORTWK01))	
19	IEF6531	SUBSTITUTION JCL - SPACE=(CYL,(4),,CONTIG),UNIT=(SYSDA,,SEP=(SORTWK01,	
2	IEF2361	ALLOC. FOR T8320S13 SAS	
3	IEF2371	153 ALLOCATED TO LIBRARY	
4	IEF2371	144 ALLOCATED TO STEPLIB	
5	IEF2371	144 ALLOCATED TO	
6	IEF2371	144 ALLOCATED TO	
7	IEF2371	153 ALLOCATED TO	
8	IEF2371	148 ALLOCATED TO SYS00630	
9	IEF2371	140 ALLOCATED TO WORK	
10	IEF2371	JES2 ALLOCATED TO FT11F001	
11	IEF2371	JES2 ALLOCATED TO FT12F001	
12	IEF2371	JES2 ALLOCATED TO FT13F001	
13	IEF2371	140 ALLOCATED TO FT15F001	
14	IEF2371	JES2 ALLOCATED TO SYSOUT	
15	IEF2371	144 ALLOCATED TO SORTLIB	
16	IEF2371	153 ALLOCATED TO SORTWK01	
17	IEF2371	140 ALLOCATED TO SORTWK02	
18	IEF2371	140 ALLOCATED TO SORTWK03	
19	IEF2371	280 ALLOCATED TO A1	
20	IEF2371	JES2 ALLOCATED TO SYSIN	
21	IEF1421	T8320S13 SAS - STEP WAS EXECUTED - COND CODE 0000	
22	IEF2851	SYS81204.T111851.RA000.T8320S13.LIBRARY	PASSED
23	IEF2851	VOL SER NOS= DATA01.	
24	IEF2851	SAS795.LIBRARY	KEPT
25	IEF2851	VOL SER NOS= LIB002.	
26	IEF2851	PLI.LINKLIB	KEPT
27	IEF2851	VOL SER NOS= LIB002.	
28	IEF2851	ICE.LINKLIB	KEPT
29	IEF2851	VOL SER NOS= LIB002.	
30	IEF2851	SYS81204.T111851.RA000.T8320S13.LIBRARY	PASSED
31	IEF2851	VOL SER NOS= DATA01.	
32	IEF2851	SYSCILG.VLIB001	KEPT
33	IEF2851	VOL SER NOS= LIB001.	
34	IEF2851	SYS81204.T111851.RA000.T8320S13.R0000001	DELETED
35	IEF2851	VOL SER NOS= WORK01.	
36	IEF2851	JES2.JOB00192.S00102	SYSOUT
37	IEF2851	JES2.JOB00192.S00103	SYSOUT
38	IEF2851	JES2.JOB00192.S00104	SYSOUT
39	IEF2851	SYS81204.T111851.RA000.T8320S13.R0000002	DELETED
40	IEF2851	VOL SER NOS= WORK01.	
41	IEF2851	JES2.JOB00192.S00105	SYSOUT
42	IEF2851	ICE.SORTLIB	KEPT
43	IEF2851	VOL SER NOS= LIB002.	
44	IEF2851	SYS81204.T111851.RA000.T8320S13.R0000003	DELETED
45	IEF2851	VOL SER NOS= DATA01.	
46	IEF2851	SYS81204.T111851.RA000.T8320S13.R0000004	DELETED
47	IEF2851	VOL SER NOS= WORK01.	
48	IEF2851	SYS81204.T111851.RA000.T8320S13.R0000005	DELETED
49	IEF2851	VOL SER NOS= WORK01.	
50	IEF2851	MUMPS.SRC	DELETED
51	IEF2851	VOL SER NOS= MUMPS1.	
52	IEF2851	JES2.JOB00192.S10101	SYSIN
53	IEF3731	STEP /SAS / START 81204.1118	
54	IEF3741	STEP /SAS / STOP 81204.1120 CPU	OMIN 05.82SEC SRB OMIN 00.40SEC VIRT 512K SYS 232K
55	IEF2371	153 ALLOCATED TO SYS00001	
56	IEF2851	SYS81204.T112011.RA000.T8320S13.R0000001	KEPT
57	IEF2851	VOL SER NOS= DATA01.	
58	IEF2851	SYS81204.T111851.RA000.T8320S13.LIBRARY	DELETED

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IEF285I VOL SER NOS= DATA01.
IEF375I JOB /T8320513/ START 81204.1118
IEF376I JOB /T8320513/ STOP 81204.1120 CPU 0MIN 05.82SEC SRB 0MIN 00.40SEC

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NOTE: SAS OPTIONS SPECIFIED ARE:
SORT=4

NOTE: INFILE A1 IS:
DSNAME=MUMPS.SRC,
UNIT=TAPE,VOL=SER=MUMPS1,DISP=NEW,
DCB=(BLKSIZE=400,LRFLCL=80,RECFM=FB)

NOTE: INVALID DATA FOR HCT IN LINE 85 4-6. 3:15
NOTE: INVALID DATA FOR HCT IN LINE 85 18-20. 3:28

```
05 CHAR .....  
ZONE .....  
NUMR .....
```

```
HCT=, HCT1=, _ERROR_=1 _N_=85
```

NOTE: 85 LINES WERE READ FROM INFILE A1.

NOTE: DATA SET WORK.LABDATA HAS 84 OBSERVATIONS AND 2 VARIABLES, 953 OBS/TRK.

NOTE: THE DATA STATEMENT USED 0.48 SECONDS AND 184K.

```

5      DATA TBLODATA;
6      SET LABDATA;
7      IF HCT<=0.0 THEN J=1;
8          ELSE IF HCT>54.0 THEN J=3;
9          ELSE J=2;
10     IF HCT1<=0.0 THEN I=1;
11     ELSE IF HCT1>54.0 THEN I=3;
12     ELSE I=2;
13     IF I=1 AND J=1 THEN C1E1+1;
14     IF I=1 AND J=2 THEN C1E2+1;
15     IF I=1 AND J=3 THEN C1E3+1;
16     IF I=2 AND J=1 THEN C2E1+1;
17     IF I=2 AND J=2 THEN C2E2+1;
18     IF I=2 AND J=3 THEN C2E3+1;
19     IF I=3 AND J=1 THEN C3E1+1;
20     IF I=3 AND J=2 THEN C3E2+1;
21     IF I=3 AND J=3 THEN C3E3+1;

```

NOTE: DATA SET WORK.TBLDATA HAS 84 OBSERVATIONS AND 13 VARIABLES. (76 OBS/TRK.

NOTE: THE DATA STATEMENT USED 0.53 SECONDS AND 184K.

```
22      PROC PRINT N DATA=TBLDATA;
```

NOTE: THE PROCEDURE PRINT USED 1.33 SECONDS AND 256K AND PRINTED PAGES 1 TO 2.

```
23 DATA _NULL_;
24 SET TBLDATA END=EOF;
```

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2

```

25 FILE PRINT;
26 TITLE MAXWELL STUART EXTENSION OF MCNEMARS TEST FOR DISCRETE DATA;
27 TITLE3 HCT IS VARIABLE BEING ANALYZED;
28 IF EOF THEN DO;
29   IF C1E2=0 AND C2F1=0 AND C2E3=0 AND C3E2=0 THEN DO;
30     NUMOR=((C1E3-C3F1)**2);
31     DENOM=C1E3+C3F1;
32     XSQED=NUMOR/DENOM;
33   END;
34   ELSE IF C1E3=0 AND C2E3=0 AND C3E1=0 AND C3E2=0 THEN DO;
35     NUMOR=((C1E2-C2E1)**2);
36     DENOM=C1E2+C2E1;
37     XSQED=NUMOR/DENOM;
38   END;
39   ELSE IF C1E2=0 AND C1E3=0 AND C2E1=0 AND C3E1=0 THEN DO;
40     NUMOR=((C2E3-C3E2)**2);
41     DENOM=C2E3+C3E2;
42     XSQED=NUMOR/DENOM;
43   END;
44   ELSE DO;
45     ROW1=C1E1+C1E2+C1E3;
46     ROW2=C2E1+C2E2+C2E3;
47     ROW3=C3E1+C3E2+C3E3;
48     COL1=C1E1+C2F1+C3E1;
49     COL2=C1E2+C2E2+C3E2;
50     COL3=C1E3+C2E3+C3E3;
51     DIF1=ROW1-COL1;
52     DIF2=ROW2-COL2;
53     DIF3=ROW3-COL3;
54     AVR1=(C2E3+C3E2)/2;
55     AVR2=(C1E3+C3E1)/2;
56     AVR3=(C1E2+C2E1)/2;
57     NUMOR=(AVR1*(DIF1**2))+(AVR2*(DIF2**2))+(AVR3*(DIF3**2));
58     DENOM=2*((AVR1*AVR2)+(AVR1*AVR3)+(AVR3*AVR2));
59     XSQED=NUMOR/DENOM;
60   END;
61   PUT _PAGE_;
62   PUT '//////////MAXWELL STUART CHISQED (WITH 2 D.F.) - ' ;
63   XSQED;
64   END;

```

NOTE: 8 LINES WERE WRITTEN TO FILE PRINT.

NOTE: THE DATA STATEMENT USED 0.88 SECONDS AND 184K AND PRINTED PAGE 3.

```

65 DATA _NULL_;
66 SET TBLDATA END=EOF;
67 FILE PRINT;
68 TITLE MCNEMAR-LIKE STATISTIC FOR DISCRETE DATA;
69 TITLE3 HCT IS VARIABLE BEING ANALYZED;
70 IF EOF THEN DO;
71   NUMOR=(C1E2+C1E3+C2E3-C2E1-C3E1-C3E2)**2;
72   DENOM=(C1E2+C1E3+C2E3+C2E1+C3E1+C3E2);
73   MCN=NUMOR/DENOM;
74   PUT _PAGE_;
75   PUT '//////////MCNEMAR LIKE CHISQED (WITH 1 D.F.) - ' MCN;
76   END;

```

NOTE: 8 LINES WERE WRITTEN TO FILE PRINT.

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NOTE: THE DATA STATEMENT USED 0.54 SECONDS AND 184K AND PRINTED PAGE 4.

```

77 DATA _NULL_;
78 SET TBLDATA END=EOF;
79 FILE PRINT;
80 TITLE EXACT SYMMETRY TEST FOR DISCRETE DATA;
81 TITLE3 HCT IS VARIABLE BEING ANALYZED;
82 IF EOF THEN DO;
83   LOG1=(2*C1E1)/(C1E1+C1E1);
84   LOG2=(2*C1E1)/(C1E1+C1E1);
85   LOG3=((C1E1-C1E1)**2)/(C1E1+C1E1);
86   IF C1E1=0 THEN GSQ1=0;
87   ELSE GSQ1=(C1E1*LOG(LOG1))+(C1E1*LOG(LOG2));
88   XSQ1=LOG3;
89   IF XSQ1=. THEN XSQ1=0;
90   LOG1=(2*C1E2)/(C1E2+C2E1);
91   LOG2=(2*C2E1)/(C1E2+C2E1);
92   LOG3=((C1E2-C2E1)**2)/(C1E2+C2E1);
93   IF C1E2=0 AND C2E1=0 THEN GSQ2=0;
94   ELSE IF C1E2=0 AND C2E1=0 THEN GSQ2=0+(C2E1*LOG(LOG2));
95   ELSE IF C1E2=0 AND C2E1=0 THEN GSQ2=(C1E2*LOG(LOG1));
96   ELSE GSQ2=(C1E2*LOG(LOG1))+(C2E1*LOG(LOG2));
97   XSQ2=LOG3;
98   IF XSQ2=. THEN XSQ2=0;
99   LOG1=(2*C1E3)/(C1E3+C3E1);
100  LOG2=(2*C3E1)/(C1E3+C3E1);
101  LOG3=((C1E3-C3E1)**2)/(C1E3+C3E1);
102  IF C1E3=0 AND C3E1=0 THEN GSQ3=0;
103  ELSE IF C1E3=0 AND C3E1=0 THEN GSQ3=0+(C3E1*LOG(LOG2));
104  ELSE IF C1E3=0 AND C3E1=0 THEN GSQ3=C1E3*LOG(LOG1);
105  ELSE GSQ3=(C1E3*LOG(LOG1))+(C3E1*LOG(LOG2));
106  XSQ3=LOG3;
107  IF XSQ3=. THEN XSQ3=0;
108  LOG1=(2*C2E2)/(C2E2+C2E2);
109  LOG2=(2*C2E2)/(C2E2+C2E2);
110  LOG3=((C2E2-C2E2)**2)/(C2E2+C2E2);
111  IF C2E2=0 THEN GSQ5=0;
112  ELSE GSQ5=(C2E2*LOG(LOG1))+(C2E2*LOG(LOG2));
113  XSQ5=LOG3;
114  IF XSQ5=. THEN XSQ5=0;
115  LOG1=(2*C2E3)/(C2E3+C3E2);
116  LOG2=(2*C3E2)/(C2E3+C3E2);
117  LOG3=((C2E3-C3E2)**2)/(C2E3+C3E2);
118  IF C2E3=0 AND C3E2=0 THEN GSQ6=0;
119  ELSE IF C2E3=0 AND C3E2=0 THEN GSQ6=0+(C3E2*LOG(LOG2));
120  ELSE IF C2E3=0 AND C3E2=0 THEN GSQ6=C2E3*LOG(LOG1);
121  ELSE GSQ6=(C2E3*LOG(LOG1))+(C3E2*LOG(LOG2));
122  XSQ6=LOG3;
123  IF XSQ6=. THEN XSQ6=0;
124  LOG1=(2*C3E3)/(C3E3+C3E3);
125  LOG2=(2*C3E3)/(C3E3+C3E3);
126  LOG3=((C3E3-C3E3)**2)/(C3E3+C3E3);
127  IF C3E3=0 THEN GSQ9=0;
128  ELSE GSQ9=(C3E3*LOG(LOG1))+(C3E3*LOG(LOG2));
129  XSQ9=LOG3;
130  IF XSQ9=. THEN XSQ9=0;
131  GSQ=GSQ1+GSQ2+GSQ3+GSQ5+GSQ6+GSQ9;
132  GSQ=GSQ*2;

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133
134
135
136
137

XSQ=XSQ1+XSQ2+XSQ3+XSQ5+XSQ6+XSQ9;
PUT _PAGE_;
PUT //*****EXACT SYMMETRY CHISQED (WITH 1 D.F.) - '
XSQ //EXACT SYMMETRY LIKELIHOOD RATIO (WITH 1 D.F.) - ' GSQ;
END;

NOTE: DIVISION BY ZERO AT LINE 83 COLUMN 16.
NOTE: DIVISION BY ZERO AT LINE 84 COLUMN 16.
NOTE: DIVISION BY ZERO AT LINE 85 COLUMN 24.
NOTE: DIVISION BY ZERO AT LINE 99 COLUMN 16.
NOTE: DIVISION BY ZERO AT LINE 100 COLUMN 16.
NOTE: DIVISION BY ZERO AT LINE 101 COLUMN 24.
NOTE: DIVISION BY ZERO AT LINE 115 COLUMN 16.
NOTE: DIVISION BY ZERO AT LINE 116 COLUMN 16.
NOTE: DIVISION BY ZERO AT LINE 117 COLUMN 24.
NOTE: DIVISION BY ZERO AT LINE 124 COLUMN 16.
NOTE: DIVISION BY ZERO AT LINE 125 COLUMN 16.
NOTE: DIVISION BY ZERO AT LINE 126 COLUMN 24.

HCT=47.7 HCT1=43.7 J=2 I=2 C1E1=0 C1E2=1 C1E3=0 C2E1=2 C2E2=81 C2E3=0 C3E1=0 C3E2=0 C3E3=0 EDF=1 LOG1=. LOG2=. LOG3=. GSQ1=0 XSQ1=0
GSQ2=0.169899 XSQ2=0.333333 GSQ3=0 XSQ3=0 GSQ5=0 XSQ5=0 GSQ6=0 XSQ6=0 GSQ9=0 XSQ9=0 GSQ=0.3397981 XSQ=0.3333333 _ERROR_=1 _N_=84

NOTE: MATHEMATICAL OPERATIONS COULD NOT BE PERFORMED AT THE
FOLLOWING PLACES. THE RESULT OF THESE OPERATIONS HAVE
BEEN SET TO MISSING VALUES.

EACH PLACE IS GIVEN BY: (NUMBER OF TIMES) AT (LINE):(COLUMN).

1 AT 83:8 1 AT 84:8 1 AT 85:8 1 AT 99:8 1 AT 100:8 1 AT 101:8 1 AT 115:8 1 AT 116:8 1 AT 117:8
1 AT 124:8 1 AT 125:8 1 AT 126:8

NOTE: 9 LINES WERE WRITTEN TO FILE PRINT.

NOTE: THE DATA STATEMENT USED 1.18 SECONDS AND 184K AND PRINTED PAGE 5.

NOTE: SAS USED 256K MEMORY.

NOTE: SAS INSTITUTE INC.
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BOX 8000
CARY, N.C. 27511

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