



\$SIGNON OORL T=4.0M C=6CC P=150  
\*\*LAST SIGNON WAS: 02:48.30 12-16-69  
USER "OORL" SIGNED ON AT 15:14.06 ON 12-16-69  
\$RUN \*FORTRAN SPUNCH=-OBJ PAR=SCURCE,MAP  
EXECUTION BEGINS

Exp 2-6  
PF = 50%  
SA = 150  
35 CARDS

12  
11  
10  
9  
8  
7  
6  
5  
4  
3

```

0001      INTEGER*2  A(15050),NBR,LEN
0002      DIMENSION KONT(6000),ZMCLE(6000),DIST(32,32),MDST(32,32),LMCL(40)
0003      DIMENSION QTF(20),KCNC(10000),CDIST(32,32),FCCNC(2),CLDST(32,32)
0004      DIMENSION VMAR(30),VLPAR(30),CMAR(30),CPTM(20)
0005      DIMENSION CSDT(32,32),CPTA(20),OPTB(20)
0006      572  FORMAT(6I10,2E12.4)
0007      571  FORMAT(25(1X,Z4))
0008      52  FORMAT(10I8/10I8/10I8/10I8)
0009      17  FORMAT (3I10,2F10.4)
0010      717  FORMAT(20I4)
0011      83  FORMAT(1I10)
0012      7  FORMAT (20A4)
0013      82  FORMAT(2F15.6)
0014      87  FORMAT (1I15,5E14.6)
0015      5  FORMAT (8I5,5F8.4)
0016      88  FORMAT(11E10.4)
0017      100  FORMAT(11I5,1E14.6)
0018      DATA FSF,LEN,MOD/'FSF',3,128/
0019      READ(5,5) NBR,NSSB,NLEV,NOS,NDIM,NOC,NCRG,NMA,BB,FRT,FAC,FREQ,SDR
0020      READ(5,17) NSPDA,NSTCA,NDIP,LPC,DRM
0021      NSSBS=NSSB
0022      LT=0
0023      KCUNT=0
0024      JK=0
0025      MOLES=0
0026      MKONT=0
0027      NOG=C
0028      CONCM=0.0
0029      CONCL=10000.0
0030      ZMMCL=0.0
0031      DO 74 I=1,40
0032      74  LMOL(I)=0
0033      BASE=C.C
0034      NOR=0
0035      L=0
0036      NKSD=SDR*FREQ/(2.0*FRT*FAC*NCS)
0037      SOEK=FRT*FAC*NOS*2.0/FREQ
0038      CALL PCSTAP
0039      IF(NOG.NE.0) GO TO 73
0040      28  CALL CORCT(A,NBR,822)
0041      INBR=NBR/2
0042      22  NOC=NOO+1
0043      DO 23 I=4,INBR,25
0044      IF(I.GT.1004) GO TO 24
0045      BASE=BASE+A(I)/40.0
0046      GO TO 23
0047      24  IBASE=BASE
0048      KLEV=A(I)-IBASE
0049      IF (KLEV.LE.NLEV) GO TO 26
0050      LT=LT+1
0051      FCCN=FCCN+KLEV
0052      GO TO 23
0053      26  BASE=(BASE*30.0+A(I))/31.0
0054      23  CONTINUE
0055      FCCNC(NOC)=FCCN/LT

```

```
0056      IF (NOD.EQ.1) GC TO 28
0057      WRITE (6,82) (FCCNC(I),I=1,2)
0058      73      ITMZ=0
0059      READ(5,83) ISREC
0060      71      IF(ITMZ.GE.ISREC) GC TO 70
0061      CALL WRITE(FSF,LEN,MCD,C,2)
0062      ITMZ=ITMZ+1
0063      GO TO 71
0064      70      CALL CORCT(A,NBR,880)
0065      INBR=NBR/2
0066      IPRT=INBR-24
0067      WRITE(6,571) (A(I),I=1,25)
0068      WRITE(6,571) (A(I),I=IPRT,INBR)
0069      NOR=NOR+1
0070      IF(NOR.GT.1) NSSB=4
0071      IF(NOR.GT.1) GC TO 30
0072      DO 20 I=4,NSSB
0073      20      BASE=BASE+A(I)/(NSSB+0.0001)
0074      IBASE=BASE
0075      30      DO 60 I=NSSB,INBR,ACS
0076      IF(A(I).EQ.0) GC TO 50
0077      IF(A(I).EQ.1023) GC TO 50
0078      KLEV1=IBASE-A(I)
0079      IF (KLEV1.LE.NLEV) GC TO 40
0080      KCUNT=KCUNT+1
0081      MOLES=MOLES+KLEV1
0082      GO TO 60
0083      40      IF(KCUNT .LT. NKSD) GC TO 51
0084      L=L+1
0085      KONT(L)=KCUNT
0086      ZMOLE(L)=MOLES
0087      KCNC(L)=MOLES/KCUNT
0088      IF(KCUNT.GT.MKCNT) MKCNT=KCUNT
0089      IF(KCNC(L).GT.CONCM) CCNCM=KCNC(L)
0090      IF(KCNC(L).LT.CONCL) CONCL=KCNC(L)
0091      51      IF(KLEV1.GT.50) GC TO 50
0092      BASE=(BB*BASE+A(I))/(BB+1.0)
0093      IBASE=BASE
0094      50      KCUNT=0
0095      MOLES=0
0096      60      CONTINUE
0097      WRITE(6,572) L,MKCNT,NER,IBASE,NCR,KCUNT,CONCM,CONCL
0098      GO TO 70
0099      80      NCG=NCG+1
0100      IF(NCG.GE.NCRG) GC TO 63
0101      NOR=0
0102      NSSB=NSSBS
0103      BASE=0.0
0104      GO TO 73
0105      63      CONTINUE
0106      STOT=0.0
0107      S1=0.0
0108      C1=0.0
0109      S2=0.0
0110      SIC1=0.0
```



```
0111      C2=C.0
0112      S3=0.0
0113      S2C1=0.0
0114      S1C2=0.0
0115      C3=0.0
0116      DO 78 I=1,L
0117      SOAD=KONT(I)*SCEK
0118      SOAD2=SCAD*SCAD
0119      SCAD3=SCAD2*SCAD
0120      CONCZ=(KONC(I)-CCNCL)/(CONCM-CCNCL)
0121      COAD=SOAD*CONCZ
0122      COAD2=CCAD*CCNCZ
0123      STOT=STOT+SOAD
0124      S1=S1+SOAD2
0125      C1=C1+CCAD
0126      S2=S2+SCAD3
0127      SIC1=S1C1+SOAD*COAD
0128      C2=C2+CCAD2
0129      S3=S3+SOAD3*SCAD
0130      S2C1=S2C1+SCAD2*CCAD
0131      S1C2=S1C2+SOAD*CCAD2
0132      C3=C3+CCAD2*CONCZ
0133      ZMOLE(I)=ZMOLE(I)-KONT(I)*CCNCL
0134      IF (ZMOLE(I).GT.ZMMCL) ZMMOL=ZMOLE(I)
0135      IF (KONT(I).LE.LMCL(1)) GO TO 78
0136      DO 72 I1=2,40
0137      IF (KONT(I).LT.LMCL(I1)) GO TO 77
0138      72  LMOL(I1-1)=LMOL(I1)
0139      I1=I1+1
0140      77  LMOL(I1-1)=KONT(I)
0141      78  CONTINUE
0142      SUM=0.0
0143      DO 53 IE=0,38
0144      I=40-IE
0145      SUM=SUM+LMCL(I)*SCEK/STCT
0146      IF (SUM.GT.DPC.AND.LMCL(I).NE.LMCL(I-1)) GO TO 54
0147      53  CONTINUE
0148      54  LMO=LMOL(I-1)
0149      IF (DRM.GT.0.0) LMC=DRM/SCEK
0150      DO 21 I=1,NMA
0151      VMAR(I)=0.0
0152      21  VLMAR(I)=0.0
0153      CMAR(I)=0.0
0154      KGB=NDIP
0155      IF (NDIM.GT.NDIP) KGB=NDIM
0156      DO 85 I=1,KGB
0157      DO 85 J=1,KGB
0158      CDIST(I,J)=0.0
0159      CSDT(I,J)=0.0
0160      CLDST(I,J)=0.0
0161      85  MDST(I,J)=0
0162      DCM=(CONCM-CCNCL)/(NDIP-0.001)
0163      DVM=(LMO-NKSD)/(NDIP-1.001)
0164      DC=(CONCM-CCNCL)/(NDIM-0.0001)
0165      DM=ZMMCL/(NDIM-0.001)
```

```

0166      DV=(MKONT-NKSD)/(NDIM-0.001)
0167      DVV=(MKONT-NKSD)/(NMA-0.001)
0168      ECC=(CONCM-CCNCL)/(NMA-0.001)
0169      BLCG=ALOG(MKONT+C.0001)
0170      SLOG=ALOG(NKSD+C.0001)
0171      DLV=(BLOG-SLOG)/(NDIM-0.0001)
0172      DLVV=(BLOG-SLOG)/(NMA-0.001)
0173      KTOT=0
0174      DO 90 I=1,L,1
0175      KOZT=KONT(I)
0176      KTOT=KTOT+KOZT
0177      CLOG=ALOG(KOZT+0.0001)-SLOG
0178      CONT=KONC(I)-CCNCL
0179      KOLT=KOZT-NKSD
0180      JKK=CLOG/DLV
0181      JMM=ZMOLE(I)/DM
0182      JCC=CONT/DC
0183      JNN=KOLT/DV
0184      JVV=KOLT/DVV
0185      JLV=CLOG/DLVV
0186      JCLC=CONT/DCC
0187      JKKK=KOLT/DVM
0188      JCCC=CONT/DCM
0189      IF(JKKK.GE.NDIP) JKKK=NDIP-1
0190      VMAR(JVV+1)=VMAR(JVV+1)+KONT(I)
0191      VLMAR(JLV+1)=VLMAR(JLV+1)+KONT(I)
0192      CMAR(JCLC+1)=CMAR(JCLC+1)+KONT(I)
0193      CDIST(JKK+1,JCC+1)=CDIST(JKK+1,JCC+1)+KONT(I)
0194      CSDT(JKKK+1,JCCC+1)=CSDT(JKKK+1,JCCC+1)+KOZT
0195      CLDST(JNN+1,JCC+1)=CLDST(JNN+1,JCC+1)+KONT(I)
0196      MDST(JKK+1,JMM+1)=MDST(JKK+1,JMM+1)+KONT(I)
0197      TVOL=KTOT
0198      DO 25 I=1,NMA
0199      VMAR(I)=VMAR(I)/TVOL
0200      VLMAR(I)=VLMAR(I)/TVOL
0201      CMAR(I)=CMAR(I)/TVOL
0202      KGB=NDIP
0203      IF(NDIM.GT.NDIP) KGB=NDIM
0204      DO 95 I=1,KGB
0205      DO 95 J=1,KGB
0206      CSDT(I,J)=CSDT(I,J)/TVOL
0207      CDIST(I,J)=CDIST(I,J)/TVOL
0208      CLDST(I,J)=CLDST(I,J)/TVOL
0209      DIST(I,J)=MDST(I,J)/TVOL
0210      ADS=S1/STOT
0211      SMV=S2/STOT
0212      TMV=S3/STOT
0213      CVC=S1C1/STOT
0214      SMC=C2/STOT
0215      TMC=C3/STOT
0216      AGON=C1/STOT
0217      SMVAC=S2C1/STOT
0218      SMCV=S1C2/STOT
0219      DMAX=MKONT*SCEK
0220      DRV=LMC*SCEK

```

```
0221      DMIN=(NKSD )*SCEK
0222      WRITE(6,100) LMC,SCEK
0223      WRITE(6,88) DCM,DVM,DC,DM,DV,DVV,DCC,BLOG,SLOG,DLV,DLVV
0224      WRITE(6,87) MKCNT,DMAX,DMIN,CRM,CONCM,CCNCL
0225      WRITE(6,87) L,ADS,SMV,TMV,CVC,SMVAC
0226      WRITE(6,87) NKSC,ACON,SMC,TMC,SMCAV,STGT
0227      READ (5,7) (CTP(I),I=1,20)
0228      WRITE (6,0TP) ((CLDST(I,J),J=1,NDIM),I=1,NDIM)
0229      WRITE (6,0TP) ((CDIST(I,J),J=1,NDIM),I=1,NDIM)
0230      WRITE (6,0TP) ((CIST(I,J),J=1,NDIM),I=1,NDIM)
0231      READ(5,7) (OPTM(I),I=1,20)
0232      WRITE(6,0PTM) (VMAR(I),I=1,NMA),(VLMAR(I),I=1,NMA),(CMAR(I),
2 I=1,NMA)
0233      READ (5,7) (OPTA(I),I=1,20)
0234      WRITE(6,0PTA) ((CSDT(I,J),J=1,NDIP),I=1,NDIP)
0235      IF (NSPDA.LT.1) GC TC 18
0236      WRITE(4,717) (KCNT(I),KCNC(I),I=1,L)
0237      18 IF (NSTDA.LT.1) GC TC 19
0238      READ (5,7) (OPTB(I),I=1,20)
0239      WRITE(6,87) L,DMAX,DMIN,ADS, SMV,CVC
0240      WRITE(6,87) L,CCNCL,CCNCM,SCEK,TVCL,STGT
0241      WRITE(6,52) (LMCL(I),I=1,40)
0242      WRITE(6,0PTB) (KONT(I),KCNC(I),I=1,L)
0243      19 CONTINUE
0244      END
```

SUBPRCGRAMS CALLED

SYMBOL	LOCATION	SYMBOL	LOCATION	SYMBOL	LOCATION	SYMBOL	LOCATION	SYMBOL	LOCATION
IBCCM#	248	POSTAP	24C	CORCT	250	WRITE	254	ALCG	258

SCALAR MAP

SYMBOL	LOCATION	SYMBOL	LOCATION	SYMBOL	LOCATION	SYMBOL	LOCATION	SYMBOL	LOCATION
FSF	28C	MCD	290	NSSE	294	NLEV	298	NCS	29C
NDIM	2A0	NCO	2A4	NORG	2A8	NMA	2AC	BB	28C
FRT	2B4	FAC	2B8	FREQ	2BC	SDR	2C0	NSPDA	2C4
NSTDA	2C8	NDIP	2CC	DPC	2D0	DRM	2D4	NSSBS	2D8
LT	2DC	KGUNT	2E0	JK	2E4	MCLES	2E8	MKCNT	2EC
NOG	2F0	CONCM	2F4	CCNCL	2F8	ZMMOL	2FC	I	300
BASE	304	NOR	308	L	30C	NKSD	310	SCEK	314
INBR	318	IBASE	31C	KLEV	320	FCCN	324	ITMZ	328
ISREC	32C	IPRT	330	KLEVI	334	STOT	338	S1	33C
CI	340	S2	344	SIC1	348	C2	34C	S3	350
S2C1	354	SIC2	358	C3	35C	SCAD	360	SCAD2	364
SCAD3	368	CGNCZ	36C	COAD	370	CCAD2	374	I1	378
SUM	37C	IE	38C	LMC	384	KGB	388	J	38C
DCM	390	DVM	394	DC	398	DM	39C	DV	3A0
DVV	3A4	DCC	3A8	BLOG	3AC	SLOG	3BC	DLV	3B4
DLVV	3B8	KTOT	3BC	KOZT	3C0	CLCG	3C4	CONT	3C8
KCLT	3CC	JKK	3D0	JMM	3D4	JCC	3D8	JNN	3DC
JVV	3E0	JLV	3E4	JCLC	3E8	JKKK	3EC	JCCC	3FC
TVOL	3F4	ADS	3F8	SMV	3FC	TMV	400	CVC	404
SMC	408	TMC	40C	ACON	410	SMVAC	414	SMCAV	418
DMAX	41C	DMIN	420	LEN	424	NBR	426		

ARRAY MAP

SYMBOL	LOCATION	SYMBOL	LOCATION	SYMBOL	LOCATION	SYMBOL	LOCATION	SYMBOL	LOCATION
A	428	KONT	798C	ZMCLE	C77C	DIST	1353C	MDST	1453C
LMOL	1553C	OTP	155DC	KGNC	1562C	CDIST	1F26C	FCCNC	2026C
CLDST	20274	VMAR	21274	VLMAR	212EC	CMAR	21364	OPTM	213DC
CSDT	2142C	OPTA	2242C	GPTB	2247C				

FORMAT STATEMENT MAP

SYMBOL	LOCATION	SYMBOL	LOCATION	SYMBOL	LOCATION	SYMBOL	LOCATION	SYMBOL	LOCATION
572	224CC	571	224D7	52	224E0	17	224F5	717	22500
83	225C6	7	225C0	82	22512	87	22519	5	22524
88	2252F	100	22536						

TOTAL MEMORY REQUIREMENTS 0242C2 BYTES  
EXECUTION TERMINATED

12  
11  
10  
9  
8  
7  
6  
5  
4  
3



\$RUN \*STATUS  
EXECUTION BEGINS

STATUS OF CORL AT LAST SIGNOFF	USED	MAXIMUM	REMAINING
CUMULATIVE CHARGE (\$)	775.50	800.00	24.50
CUMULATIVE TERMINAL TIME (HR)	0.60		
CURRENT DISK SPACE (PAGES)	10	15	5
CUMULATIVE DISK STORAGE (PG-DA)	679.41		
CUMULATIVE MEMCRY--CPU (PG-HR)	80.44		
CUMULATIVE MEMORY--WAIT (PG-HR)	270.80		
CUMULATIVE CPU TIME (HR)	1.82		
CUMULATIVE LINES PRINTED	40789		
CUMULATIVE PAGES PRINTED	1099		
CUMULATIVE CARDS PUNCHED	4968		
CUMULATIVE CARDS READ	14831		
BATCH SESSIONS	71		
TERMINAL SESSIONS	2		
EXPIRATION DATE AND TIME:	01-06-70	24:00.00	

EXECUTION TERMINATED

12  
11  
10  
9  
8  
7  
6  
5  
4  
3

\$RUN \*MOUNT;PAR=G956 ON 7TP,PNAME=\*DT\*,MODE=20F,SIZE=30100,'EDATA',RING OUT  
EXECUTION BEGINS  
G956 ON 7TP,PNAME=\*DT\*,MODE=20F,SIZE=30100,'EDATA',RING OUT

\*DT\*: MOUNTED ON T001  
EXECUTION TERMINATED

12  
11  
10  
9  
8  
7  
6  
5  
4  
3

\$RUN -OBJ+\*SOURCE\* \*SINK\*; 2=\*DT\* 5=\*SOURCE\* 6=\*SINK\* 4=\*PLNCH\* 7=STCRG

ENTRY = 4CF000 SIZE = 027AC8

NAME	VALUE	T	RF	NAME	VALUE	T	RF	NAME	VALUE	T	RF
GETSPACE	209B18	*		FREESPAC	209DC8	*		ERROR#	20F754	*	
MTS#	20F770	*		CANREPLY	211CAE	*		GCINFO	211C3E	*	
SETIDERR	211F72	*		POINT	212928	*		SCARDS#	212F00	*	
SPRINT#	212F12	*		SPRINT	212F12	*		SPUNCH#	212F24	*	
SERCOM#	212F36	*		READ#	212FB4	*		READ	212FB4	*	
WRITE#	212F00	*		WRITE	212FC0	*		LC SYMBOL	213AB0	*	
CORCT	4040D8	4040D8		POSTAP	404240	4040D8		REWIND#	40431C	*40431C	
IHC SLOG	4044A0	*4044A0		ALCG	4044EC	*		IBCOM#	40C000	*40C000	
MAIN	40F000	40F000		FIOCS#	4332C8	*4332C8		ADCON#	434000	*434000	
FCVZO	434154	*		FCVA0	4341FA	*		FCVLO	434282	*	
FCVIC	4345A8	*		FCVE0	434A9A	*		FCVCO	434CAC	*	

EXECUTION BEGINS

0008	0000	0000	0357	0351	0359	0367	036F	0360	0351	034C	0354	0369	0376	0373	036E	036B	0367	0360	034C	034F	0363	036E	0370	036D
036B	0380	0371	0367	0377	036E	0354	0355	034C	034C	0361	036E	0366	0356	0341	0347	0367	037A	036E	0267	0373	0367	0359	0354	0346
0	0		30006		866		1		C	C.C		C.1000E	05											
0108	0000	0000	0355	036F	0375	0373	0376	0371	0368	035E	0353	0347	0350	036F	0374	036E	0361	034F	0353	0377	037C	0372	037A	0379
0363	0373	0366	034F	0344	0356	036B	036B	0367	036B	0367	0361	0356	0343	033E	0343	0358	0369	035C	0343	033F	0347	0357	035B	0360
11	506		30006		865		2		0	C.5050E	03	C.1430E	03											
0208	0000	0000	0364	0372	0371	0367	0355	034E	0363	0372	036F	0374	0377	036C	036B	0355	0344	034F	0362	036C	036A	035F	034C	034B
037F	0377	0341	0316	02EF	02D4	02F3	0303	032F	034F	0347	0352	036F	037A	0373	0375	0377	0370	036C	025E	034F	0358	0370	0376	036F
12	843		30006		879		3		C	C.5050E	03	0.1430E	03											
0308	0000	0000	037F	0384	0375	036F	0361	0354	0366	0374	037E	0373	035A	034F	0363	0378	037E	0377	0374	0377	037C	0364	0356	0356
0368	0353	035F	036E	0377	0377	0383	0381	0377	0375	035F	034C	035C	037B	0384	0376	0363	0357	0362	0378	0377	035B	032C	0357	0373
27	843		30006		876		4		0	C.5050E	03	C.1430E	03											
0408	0000	0000	0373	0367	0357	035C	0375	0377	0371	0380	0382	037B	0373	035A	0347	0356	0372	0375	036F	036C	035A	035E	0378	037A
0376	0377	0370	0366	0356	0369	037F	0377	0377	037F	037C	037B	036F	0357	0355	0367	037A	0379	036D	0360	035A	036E	037C	0377	0379
30	843		30006		879		5		0	C.5050E	03	C.1430E	03											
0508	0000	0000	0371	037E	0376	036F	036C	0361	0380	0387	0379	037E	0386	0380	0375	0366	0354	035F	0374	0377	037C	036E	035C	025C
0356	0367	0383	0382	037F	0373	0361	036F	0386	038A	0382	0386	0385	037F	0377	036C	0351	0363	0379	037E	0377	0368	035D	036C	037F
52	843		30006		877		6		0	C.5050E	03	0.1380E	03											
0608	0000	0000	034E	0365	0378	037F	037A	036D	0359	0360	037C	0387	0380	0380	0381	037A	0372	035F	034F	0360	0379	037E	0377	0367
037C	037B	0370	0361	034F	0353	0367	037B	037C	0367	0358	035C	036D	0376	0376	0379	037A	0377	036C	0357	0349	0354	036E	0379	0374
56	843		30006		877		7		0	C.5050E	03	C.1380E	03											
0708	0000	0000	0378	0380	037C	036F	035E	034F	0364	037B	038C	0377	0367	035C	0364	037F	0385	0380	0282	0383	037B	0374	0360	035C
0377	0376	036F	0362	0352	0359	0370	037B	0378	0366	034F	0356	0371	0375	0374	0377	0374	036C	0363	0354	0346	0351	0368	036E	036B
67	843		30006		874		8		0	C.5050E	03	0.1380E	03											
0808	0000	0000	037D	0371	036F	036B	035A	0348	035E	0377	0372	0369	0356	0349	035D	0371	0377	0373	0379	0374	0368	0362	034F	034E
0373	036E	035F	0354	0362	0377	037A	0376	0363	0350	035F	0374	0379	0373	0376	0378	0370	0366	0353	034F	0360	0376	0378	0371	035E
81	2365		30006		872		9		C	C.5050E	03	0.1380E	03											
0908	0000	0000	0376	036F	0367	0357	0350	0360	0373	0377	0371	0361	035B	0366	0379	037E	0377	0380	0278	0373	0369	0357	035A	036F
02BC	02A6	02AE	02C6	02D2	02CF	02C1	02AE	02B6	02CC	02D5	02D2	02L7	02D7	02CF	02C7	02B7	02A7	02B7	02C9	02D1	02CC	02BE	02A9	02B3
81	2365		30006		865		10		153	C.5050E	03	C.1380E	03											
0009	0000	0000	02C4	02AE	02AD	02C7	02D6	02C4	02C9	02B7	02A7	02C3	02D7	02D7	02D7	02D6	02D7	02CC	02BE	02AA	02B4	02C7	02C6	02D1
0373	0377	0375	0380	037E	0376	0370	0357	034F	0359	0373	037C	0372	035F	034D	035C	036E	036F	0372	0377	0377	036F	0362	034F	034D
89	2365		30006		863		11		C	C.5050E	03	0.1380E	03											
0109	0000	0000	035F	036B	036F	0376	0376	036F	0366	0355	0346	0345	035C	036A	0369	0365	034A	0347	0361	037C	036E	036E	036F	036C
0146	015A	016B	016F	016C	0156	0154	0167	017A	0177	0174	0177	0172	016D	0160	014F	014B	0159	0167	0167	015A	0143	0143	0164	0193



114	2365	30006	859	12	70	C.5050E C3	G.1380E C3
0209 0000 0000 01E9 01F4 0203 0216 0212 0207 C1F7 01F7 0208 0213 020F C212 0217 0215 020F C1F9 01E7 01E7 C1E9 0213 0249 02D3	036E 0372 036D 036D 0364 0367 0359 034A 0345 C258 0369 0369 035A 034A C340 035A 036A C368 0366 0367 035C 035F 034C C33F 033A	13C	2365	30006	858	13	0 0.5050E C3 0.1380E C3
0309 0000 0000 036C 036F 0367 0367 0363 035D C357 0348 0347 035A 0364 0360 0353 033F 033B 0358 036F 036E 0366 0367 C25C C357	0366 0357 0344 033F 0351 0366 0368 035F 034F 033F 035B 036E 036A 0369 C36D 036C 0360 C354 033E 033F 0351 036B 0369 0360 0349	136	2365	30006	868	14	0 0.5050E C3 0.1340E C3
0409 0000 0000 036F 035D 0347 033F 034F 0367 036B 0366 C357 034A C35F 036C 036E 0369 0370 0367 0367 0354 0346 C345 C35B C36E	028D 0237 020F 021F 0227 0219 0212 020F 020E 020E C1FF 01EE 01FB 020B 020F 020F 01FF 01EF 01F7 0213 0223 021A 020F 0212 020B	154	2365	30006	866	15	26 0.5050E C3 0.1340E C3
0509 0000 0000 0205 01F1 01E7 01FF 020E 020E C2CA 020C 020E C1FF C1FF 01E5 01EF 01F7 020B 020A 01FF 01E5 01F3 0207 0217 0212	0374 036E 0363 0354 034A 035E 037A 037C 0370 035F 034F 035E 0374 0379 0377 037D 0379 0370 0367 0353 0351 0363 0374 036F 0361	202	2365	30006	864	16	0 C.5050E C3 0.1340E C3
0609 0000 0000 0228 0227 C224 0216 0206 01F9 02CA 021F 0223 0217 0206 01FE 0209 0226 0221 021E 0224 021E 0217 020A 01FB 01F3	0356 0351 0348 0341 033A 0337 0343 034F 034E 0342 0333 0327 033F 0357 035A 034F 034F 0349 0341 033C 0326 032B 033F 0349 0347	204	2365	30006	837	17	0 0.5050E C3 0.1340E C3
0709 0000 0000 035E 0357 0352 034B 033E 0330 033C 034C 0354 034D 033F 032F 0337 0352 035E 0356 0353 034A 0341 033E 0334 032E	0347 033F 032F 0322 0330 034A 034F 034E 034E 034B 0343 0337 032B 031C 0335 0347 034A 033C 0327 0323 0334 034C 034F 034B 034B	223	2365	30006	830	18	0 C.5050E C3 0.1340E C3
0809 0000 0000 01EF 01E7 01CF 01C4 01CF 01E7 01F2 01F2 01EF 01EB 01E7 01DB 01C7 01BF 01CF 01E7 01EE 01CF 01D1 01C1 01C0 01E3	034C 0347 0343 0334 031B 0323 0337 0347 034A 033B 0324 0323 0337 0347 034A 034A 0347 033F 0337 0327 031A 0320 033F 034A 034E	250	2365	30006	830	19	0 C.5050E C3 0.1340E C3
0909 0000 0000 0356 034F 0347 0337 0321 0326 033B 034A 034E 033F 032D 0325 033B 0348 0344 0349 034C 0352 0343 0333 0320 032A	0217 022E 0245 0246 0243 0242 0240 0237 022D 0216 0217 022C 023F 023D 0233 0219 0215 022B 0243 0244 023F 0239 023E 0234 0224	260	2365	30006	877	20	261 0.5050E C3 0.1340E C3
0000 010C 0000 021C 0221 023F 0244 023F 0242 023A 0233 022C 0217 020F 022A 023F 0245 0236 0224 0215 0229 0246 024F 0249 024C	035C 0363 037C 0387 0386 0376 035F 035F 0373 0387 0387 0387 0387 0380 0376 0360 0354 0360 0378 0383 0381 0373 035B 035B 0377	284	2365	30006	882	21	0 C.5050E C3 0.1340E C3
0100 0100 0000 0357 0357 036E 0383 0387 0381 0367 0359 0370 0384 0384 0387 038D 0385 037C 036D 0357 035A 0377 0384 038B 0377	038C 0387 038E 038B 038E 0384 0378 035F 0373 0389 038A 037C 0367 0360 0379 0387 038E 038E 038E 0383 037C 0369 0355 035B	296	2365	30006	890	22	0 C.5050E C3 0.1340E C3
0200 0100 0000 038E 0392 038C 0395 038A 0387 0377 0367 0362 037B 0389 038E 0382 0376 0364 037A 038A 0389 0387 0389 038A 0380	0380 0377 0366 0362 0371 0387 0387 0388 0373 0367 037C 0394 0392 038F 0389 038A 0385 0377 036C 036C 037F 0387 038E 0377 0367	304	2365	30006	892	23	0 0.5100E C3 0.1340E C3
0300 0100 0000 0387 037C 036B 0363 037E 0387 0388 0384 0372 0369 037A 0394 038B 038D 038A 0387 0386 0374 0369 0361 038C 0387	035B 036E 038A 038B 038E 0390 0387 0382 0377 0367 0367 037E 038E 038C 037E 0367 0363 0377 038C 038E 038B 038B 0383 037E 036C	333	2365	30006	890	24	0 C.5100E C3 0.1340E C3

1491 0.784000E-C2

.3760E 020.1635E 030.3760E 020.7523E 050.2345E 030.1173E 030.1880E 020.7769E 010.2996E 010.4773E 000.2387E 00

2365 0.185416E C2 0.156800E 00 0.116894E 02 0.510000E 03 0.134000E 03  
 333 0.379734E 01 0.295445E 02 0.366709E 03 0.235383E 01 0.211591E 02  
 20 0.547301E 00 0.358111E 00 0.255843E 00 0.166945E 01 0.555573E 03

0.0231419	0.0131655	0.0123330	0.0424880	0.0694823	0.0873044	0.0404420	0.0377609	0.0213781	0.0338804
0.0421212	0.0235512	0.0068579	0.0309876	0.0553854	0.0505172	0.0455360	0.0238052	0.0228879	0.0082972
0.0	0.0069990	0.0100893	0.0	0.0256537	0.0164251	0.0253997	0.0073377	0.0153809	0.0092705
0.0	0.0	0.0	0.0215051	0.0231984	0.0332736	0.0117121	0.0118955	0.0106679	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0210394
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0013829	0.0002963	0.0009454	0.0006491	0.0060959	0.0037253	0.0	0.0004515	0.0003387	0.0003104
0.0017215	0.0012559	0.0	0.0005503	0.0032584	0.0067591	0.0	0.0004798	0.0025541	0.0007055
0.0009595	0.0009878	0.0007902	0.0034713	0.0073095	0.0065757	0.0029774	0.0044873	0.0	0.0022154
0.0026529	0.0018626	0.0	0.0097930	0.0045578	0.0158184	0.0095249	0.0034995	0.0082972	0.0131796
0.0098494	0.0054186	0.0071542	0.0245671	0.0278268	0.0409076	0.0179350	0.0191203	0.0069849	0.0143790
0.0314392	0.0202069	0.0034431	0.0236076	0.0407947	0.0512368	0.0441672	0.0221118	0.0078033	0.0113875
0.0172577	0.0136876	0.0068579	0.0108372	0.0420647	0.0205455	0.0113734	0.0187534	0.0336687	0.0



0.0	0.0	0.0100893	0.0215051	0.0417119	0.0419518	0.0371118	0.0118955	0.0106679	0.0092709
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0254561	0.0	0.0333724	0.0210394
0.0141956	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0173847	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0297741	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0691859	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.1741431	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.2092088	0.0469894	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0703712	0.0892940	0.0153809	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0100893	0.0870221	0.0552584	0.0318343	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0254561	0.0	0.0210394	0.0	0.0333724
0.1305403	0.2508360	0.1947733	0.1151735	0.0609028	0.0556535	0.0765377	0.0357148	0.0	0.0
0.0	0.0	0.0210394	0.0	0.0	0.0254561	0.0	0.0	0.0	0.0333724
0.0085653	0.0056303	0.0071401	0.0102445	0.0171589	0.0126152	0.0237910	0.0453949	0.0631605	0.1109825
0.1145102	0.1416875	0.0843552	0.0906910	0.0719516	0.1122525	0.0	0.0	0.0464955	0.0333724
0.0462839	0.0199792	0.0227751	0.0209406	0.0198400	0.0094402	0.0324128	0.0625679	0.0660251	0.1076947
0.0750138	0.1125065	0.1001312	0.0484146	0.0437016	0.0370977	0.0537203	0.0499668	0.0328362	0.0396517
0.0136453	0.0068438	0.0062935	0.0303526	0.0322294	0.0542283	0.0215756	0.0199529	0.0181749	0.0279255
0.0343601	0.0231843	0.0060395	0.0322858	0.0577137	0.0707946	0.0530289	0.0301974	0.0078033	0.0142520
0.0172577	0.0136976	0.0068579	0.0108372	0.0420647	0.0127986	0.0113734	0.0114157	0.0182878	0.0
0.0	0.0	0.0	0.0	0.0185136	0.0164251	0.0253597	0.0073377	0.0153809	0.0092709
0.0	0.0	0.0100893	0.0215051	0.0112746	0.0213781	0.0117121	0.0	0.0106679	0.0
0.0	0.0	0.0	0.0	0.0119237	0.0118955	0.0	0.0118955	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0210394
0.0	0.0	0.0	0.0	0.0	0.0	0.0254561	0.0	0.0333724	0.0

f15  
24  
10

333 0.185416E 02 0.156800E 00 0.379734E 01 0.295445E 02 0.235383E 01  
333 0.134000E 03 0.510000E 03 0.784000E-02 0.708670E 05 0.555573E 03

410	410	411	426	436	441	453	453	454	464
474	482	486	496	506	520	535	549	555	574
581	615	643	645	657	669	715	733	753	756
762	791	799	830	843	843	845	1491	1804	2365
506	311	280	174	326	505	276	258	36	143
41	469	843	345	496	180	183	214	174	500
30	288	120	410	406	472	57	260	247	305
47	335	201	347	574	372	356	304	555	441
20	138	121	483	91	356	220	142	203	496
182	337	75	473	799	306	246	161	144	454
64	254	21	329	28	308	176	435	183	389
291	308	410	141	154	139	453	329	157	412
58	355	279	151	46	179	238	297	227	442
164	145	185	301	211	252	406	317	520	408
277	264	95	335	83	402	56	237	61	380
143	268	116	396	20	287	64	291	92	458
35	316	25	145	22	303	259	163	61	293
45	457	47	339	150	347	186	409	292	134
23	295	245	283	441	426	22	486	56	428
395	388	581	390	27	314	205	361	266	345
146	316	645	396	23	298	358	284	226	414
119	478	34	334	292	270	52	306	49	334
42	136	328	288	24	297	36	294	24	322
128	426	29	289	30	300	42	326	20	272
20	236	54	291	35	325	346	150	1804	375
174	342	118	496	219	501	185	337	176	345
215	288	284	323	86	155	615	359	39	339
44	143	154	349	55	320	156	493	190	301
209	352	25	299	338	372	215	364	80	345

762 329 315 350 251 301 144 493 182 357 264 286 154 384 262 431 277 363 368 401  
302 308 198 329 411 367 1491 487 25 324 245 380 81 345 54 289 272 343 276 362  
241 408 183 275 171 483 102 457 37 321 175 283 128 351 55 346 197 410 209 322  
32 296 306 366 84 311 94 328 410 258 284 275 146 315 150 409 121 313 240 330  
166 325 39 280 124 492 103 397 21 307 203 269 657 510 61 426 295 434 131 271  
139 402 535 459 101 483 24 437 24 356 715 218 248 308 173 209 200 311 474 189  
246 350 34 428 68 171 95 361 176 347 99 357 208 372 326 437 30 324 304 369  
171 415 90 349 222 413 145 281 54 333 482 301 116 338 118 310 132 206 21 351  
43 353 454 344 145 372

STOP 0  
EXECUTION TERMINATED

12  
11  
10  
9  
8  
7  
6  
5  
4  
3

\$SIGNOFF

12  
11  
10  
9  
8  
7  
6  
5  
4  
3

26.15

USER: CCRL  
CHARGE NBR: 00RL

\*\*\*\* ON AT 15:14.06  
 \*\*\*\* OFF AT 15:19.07  
 \*\*\*\* ELAPSEC TIME 300.91 SEC.  
 \*\*\*\* CPU TIME USED 64.004 SEC.  
 \*\*\*\* STORAGE USED 2642.78 PAGE-SEC.  
 \*\*\*\* CARDS READ 280  
 \*\*\*\* LINES PRINTED 557  
 \*\*\*\* PAGES PRINTED 16  
 \*\*\*\* CARDS PUNCHED 35  
 \*\*\*\* DRUM READS 2  
 \*\*\*\* APPROX. COST OF THIS RUN \$7.55

\*\*\*\* FILE STORAGE 127 PG-FF. \$.04

\*\*LAST SIGNON WAS: 02:48.30 12-16-69

12  
11  
10  
9  
8  
7  
6  
5  
4  
3