



IGNCN QORL T=4.CM C=6CC P=150  
\*LAST SIGNCN WAS: 15:47.16 03-02-70  
USER "QORL" SIGNED CN AT 16:12.15 CN 03-02-70  
\$RUN \$FORTRAN SPLNCH=-QBJ PAP=SOURCE,MAP  
EXECUTION BEGINS

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0001      INTEGER*2  A(15050),NBR,LEN
0002      DIMENSION KCNT(6000),ZMCL(6000),DIST(32,32),MDST(32,32),LMCL(40)
0003      DIMENSION GTP(20),KCNC(10000),CDIST(32,32),FCCNC(2),CLDST(32,32)
0004      DIMENSION VMAR(30),VLMAR(30),CMAR(30),CPTM(20)
0005      DIMENSION CSCT(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      82  FORMAT(11I10)
0012      7  FORMAT(20A4)
0013      82  FORMAT(2F15.6)
0014      87  FORMAT(11I5,5E14.6)
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      REAL(5,5) NBR,NSSB,NLEV,NCS,NDIM,NCC,NORG,NMA,BB,FRT,FAC,FREQ,SDR
0020      REAL(5,17) NSPDA,NSTDA,NCIP,CPC,CRM
0021      NSSBS=NSSB
0022      LT=0
0023      KCLNT=0
0024      JK=0
0025      MOLES=0
0026      MKCNT=0
0027      NCC=C
0028      CONCM=0.0
0029      CONCL=10000.0
0030      ZMMCL=0.0
0031      DO 74 I=1,40
0032      74  LMCL(I)=0
0033      BASE=C.0
0034      NOR=0
0035      L=0
0036      NKSC=SDR*FREQ/(2.0*FRT*FAC*NCS)
0037      SDEK=FRT*FAC*NCS*2.0/FREQ
0038      CALL PCSTAP
0039      IF(NCC.NE.0) GO TO 73
0040      28  CALL CORCT(A,NBR,822)
0041      INEF=NBR/2
0042      22  NCC=NCC+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      12  CC50      LT=LT+1
0051      11  CC51      FCCN=FCCN+KLEV
0052      10  CC52      GO TO 23
0053      9   CC53      26  BASE=(BASE*30.0+A(I))/31.0
0054      8   CC54      23  CONTINUE
0055      7   CC55      FCCN(NCC)=FCCN/LT

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0056      IF (NDD.EQ.1) GO TO 28
0057      WRITE (6,82) (FCONC(I),I=1,2)
0058      73      ITMZ=0
0059      READ(5,83) ISPEC
0060      71      IF(ITMZ.GE.ISPEC) GO TO 70
0061      CALL WRITE(FSF,LEN,MCC,C,2)
0062      ITMZ=ITMZ+1
0063      GO TO 71
0064      70      CALL CORCT(A,NBR,88C)
0065      INER=NER/2
0066      IPRT=INBR-24
0067      WRITE(6,571) (A(I),I=1,25)
0068      WRITE(6,571) (A(I),I=IPRT,INBR)
0069      NCF=NCR+1
0070      IF(NCR.GT.1) NSSB=4
0071      IF(NCR.GT.1) GO TO 30
0072      DO 20 I=4,NSSB
0073      20      EASE=BASE+A(I)/(NSSB+C.CCC1)
0074      IBASE=BASE
0075      30      DO 60 I=NSSB,INBR,MCS
0076      IF(A(I).EQ.0) GO TO 50
0077      IF(A(I).EQ.1023) GO TO 50
0078      KLEV1=IBASE-A(I)
0079      IF (KLEV1.LE.NLEV) GO TO 40
0080      KCUNT=KCUNT+1
0081      MCLES=MCLES+KLEV1
0082      GO TO 60
0083      40      IF(KCUNT.LT.NKSD) GO TO 51
0084      L=L+1
0085      KONT(L)=KCUNT
0086      ZMCLE(L)=MCLES
0087      KONC(L)=MCLES/KCUNT
0088      IF(KCUNT.GT.MKONT) MKONT=KCUNT
0089      IF(KONC(L).GT.CCNCM) CCNCM=KONC(L)
0090      IF(KONC(L).LT.CCNCL) CCNCL=KONC(L)
0091      51      IF(KLEV1.GT.50) GO TO 50
0092      BASE=(BB*BASE+A(I))/(BB+1.0)
0093      IBASE=BASE
0094      50      KCUNT=0
0095      MCLES=0
0096      60      CONTINUE
0097      WRITE(6,572) L,MKONT,NBR,IBASE,NCR,KOUNT,CCNCM,CCNCL
0098      GO TO 70
0099      80      NCG=NCG+1
0100      IF(NCG.GE.NCRG) GO TO 62
0101      NOR=0
0102      NSSB=NSSBS
0103      BASE=0.0
0104      GO TO 73
0105      62      CONTINUE
0106      STOT=0.0
0107      S1=0.0
0108      C1=C.0
0109      S2=0.0
0110      SIC1=0.0

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0111      C2=C.0
0112      S3=C.0
0113      S2C1=0.0
0114      S1C2=0.0
0115      C3=0.0
0116      DO 78 I=1,L
0117      SCAD=KCNT(I)*SCEK
0118      ← SCAD2=SCAD*SCAD
0119      SCAD3=SCAD2*SCAD
0120      CCNCZ=(KCNC(I)-CCNCL)/(CCNCM-CCNCL)
0121      COAD=SOAD*CCNCZ
0122      COAD2=CCAD*CCNCZ
0123      ← STCT=STCT+SCAD
0124      S1=S1+SCAD2
0125      C1=C1+CCAD
0126      S2=S2+SCAD3
0127      S1C1=S1C1+SCAD*CCAD
0128      C2=C2+COAD2
0129      S3=S3+SCAD3*SCAD
0130      S2C1=S2C1+SCAD2*CCAD
0131      S1C2=S1C2+SCAD*CCAD2
0132      C3=C3+COAD2*CCNCZ
0133      ZMOLE(I)=ZMOLE(I)-KCNT(I)*CCNCL
0134      IF (ZMOLE(I).GT.ZMMOL) ZMMOL=ZMOLE(I)
0135      IF (KCNT(I).LE.LMCL(I)) GO TO 78
0136      DO 72 I1=2,40
0137      IF (KCNT(I1).LT.LMCL(I1)) GO TO 77
0138      72  LMCL(I1-1)=LMCL(I1)
0139      I1=I1+1
0140      77  LMCL(I1-1)=KCNT(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  LMC=LMCL(I-1)
0149      IF (DRM.GT.C.C) LMC=DRM/SCEK
0150      DO 21 I=1,NMA
0151      VLMAR(I)=0.0
0152      VLMAR(I)=C.C
0153      21  CMAR(I)=0.0
0154      KGB=NDIF
0155      IF (NDIM.GT.NDIF) KCE=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=(CCNCM-CCNCL)/(NDIP-C.001)
0163      DVM=(LMC-NKSC)/(NDIF-1.001)
0164      DC=(CCNCM-CCNCL)/(NDIM-C.0001)
0165      DM=ZMMOL/(NDIM-C.001)

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0166      DV=(MKONT-NKSD)/(NDIM-0.001)
0167      DVV=(MKONT-NKSD)/(NMA-0.001)
0168      DCC=(CONCM-CONCL)/(NM/-0.001)
0169      BLOC=ALOG(MKONT+0.0001)
0170      SLOG=ALOG(NKSD+0.0001)
0171      DLV=(BLOC-SLOG)/(NDIM-0.0001)
0172      DLVV=(BLOC-SLOG)/(NMA-0.001)
0173      KTOT=C
0174      DO 50 I=1,L,1
0175      KCZT=KONT(I)
0176      KTCT=KTCT+KCZT
0177      CLOC=ALOG(KCZT+0.0001)-SLOG
0178      CCNT=KONC(I)-CONCL
0179      KOLT=KCZT-NKSD
0180      JKK=CLOC/DLV
0181      JMM=2MCLE(I)/DM
0182      JCC=CCNT/CC
0183      JNN=KOLT/DV
0184      JVV=KOLT/DVV
0185      JLV=CLOC/DLVV
0186      JCLC=CCNT/DCC
0187      JKJK=KOLT/DVM
0188      JCCC=CCNT/DCM
0189      IF (JKKK.GE.NDIF) JKJK=NDIF-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)+KQZT
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      TVCL=KTCT
0198      DO 25 I=1,NMA
0199      VMAR(I)=VMAR(I)/TVCL
0200      VLMAR(I)=VLMAR(I)/TVCL
0201      CMAR(I)=CMAR(I)/TVCL
0202      KGB=NDIF
0203      IF (NDIM.GT.NDIF) KGB=NDIM
0204      DO 95 I=1,KGB
0205      DO 95 J=1,KGB
0206      CSDT(I,J)=CSDT(I,J)/TVCL
0207      CDIST(I,J)=CDIST(I,J)/TVCL
0208      CLDST(I,J)=CLDST(I,J)/TVCL
0209      DIST(I,J)=MDST(I,J)/TVCL
0210      ADS=S1/STOT
0211      SMV=S2/STCT
0212      TMV=S3/STCT
0213      CVC=S1C1/STOT
0214      SMC=C2/STOT
0215      TMC=C3/STCT
0216      ACON=C1/STOT
0217      SMVAC=S2C1/STCT
0218      SMCAC=S1C2/STCT
0219      DMAX=MKONT*SCEK
0220      DRM=LMC*SCEK
    
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0221      DMIN=(NKSD  )*SCEK
0222      WRITE(6,100) LMC,SCEK
0223      WRITE(6,88) DCM,DVM,DC,DM,DV,DVV,DCC,BLCG,SLCG,DLV,DLVV
0224      WRITE(6,87) MKONT,DMAX,DMIN,DRM,CONCM,CCNCL
0225      WRITE(6,87) L,ADS,SMV,IMV,CVC,SMVAC
0226      WRITE(6,87) NKSD,ACCN,SMC,TMC,SMCAV,STGT
0227      READ (5,7)  (CTP(I),I=1,20)
0228      WRITE (6,CTP) ((CLDST(I,J),J=1,NDIM),I=1,NDIM)
0229      WRITE (6,CTP) ((CDIST(I,J),J=1,NDIM),I=1,NDIM)
0230      WRITE (6,CTP) ((CIST(I,J),J=1,NDIM),I=1,NDIM)
0231      READ(5,7) (CPTM(I),I=1,20)
0232      WRITE(6,CPTM) (VMAR(I),I=1,NMA),(VLMAR(I),I=1,NMA),(CMAR(I),
2 I=1,NMA)
0233      READ (5,7) (CPTA(I),I=1,20)
0234      WRITE(6,CPTA) ((CSCT(I,J),J=1,NDIP),I=1,NDIP)
0235      IF (NSPCA.LT.1) GO TO 18
0236      WRITE(4,717) (KCNT(I),KCNC(I),I=1,L)
0237      18 IF (NSTDA.LT.1) GO TO 19
0238      READ (5,7) (CPTB(I),I=1,20)
0239      WRITE(6,87) L,DMAX,DMIN,ADS, SMV,CVC
0240      WRITE(6,87) L,CCNCL,CCNCM,SCEK,TVOL,STGT
0241      WRITE(6,52) (LMCL(I),I=1,40)
0242      WRITE(6,CPTB) (KCNT(I),KCNC(I),I=1,L)
0243      19 CONTINUE
0244      END
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SUBPROGRAMS CALLED

SYMBOL	LOCATION	SYMBOL	LOCATION	SYMBOL	LOCATION	SYMBOL	LOCATION	SYMBOL	LOCATION
IRCCM#	248	PCSTAP	24C	CORCT	250	WRITE	254	ALOG	258

SCALAR MAP

SYMBOL	LOCATION	SYMBOL	LOCATION	SYMBOL	LOCATION	SYMBOL	LOCATION	SYMBOL	LOCATION
FSF	28C	MCD	29C	NSSB	294	NLEV	298	NCS	29C
NDIM	2AC	NCO	2A4	NCFG	2A8	NMA	2AC	BB	2B0
FRT	2B4	FAC	2B8	FREQ	2BC	SDR	2C0	NSPDA	2C4
NSTCA	2C8	NCIP	2CC	DPC	2D0	DRM	2D4	NSSBS	2D8
LT	2DC	KCNT	2E0	JK	2E4	MOLES	2E8	MKCNT	2EC
NGG	2FC	CONCM	2F4	CCNCL	2F8	ZMCL	2FC	I	300
BASE	3C4	NCF	3C8	L	3CC	NKSD	31C	SCEK	314
INBR	31E	IBASE	31C	KLEV	320	FCCN	324	ITMZ	328
ISREC	32C	IPRT	330	KLEV1	334	STCT	338	S1	33C
CI	340	S2	344	S1C1	348	C2	34C	S3	350
S2C1	354	S1C2	358	C3	35C	SCAD	360	SOAD2	364
SCAD3	368	CCNCZ	36C	COAD	37C	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	ECC	3A8	BLOG	3AC	SLOG	3B0	DLV	3B4
DLVV	3B8	KTCT	3BC	KCZT	3C0	CLOG	3C4	CENT	3C8
KCLT	3CC	JKK	3DC	JYM	3D4	JCC	3D8	JAN	3DC
JVV	3E0	JLV	3E4	JCLC	3E8	JKKK	3EC	JCCC	3FC
TVOL	3F4	ACS	3F8	SMV	3FC	TMV	400	CVC	404
SMC	408	TMC	40C	ACON	410	SMVAC	414	SMCAV	418
DMAX	41C	CMIN	42C	LEN	424	NBR	426		

ARRAY MAP

SYMBOL	LOCATION	SYMBOL	LOCATION	SYMBOL	LOCATION	SYMBOL	LOCATION	SYMBOL	LOCATION
A	428	KGNT	79BC	ZMLE	177C	DIST	1353C	MDST	1453C
LMCL	1553C	CTP	155DC	KCNC	1562C	CDIST	1F26C	FCCNC	2026C
CLOST	20274	VMAR	21274	VLMAR	212EC	CMAR	21364	OPTM	213DC
CSCT	2142C	CPTA	2242C	CPTB	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

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\$RUN \*STATUS  
EXECUTION BEGINS

STATUS OF CORL AT LAST SIGNOFF	USED	MAXIMUM	REMAINING
CUMULATIVE CHARGE (\$)	140.23	300.00	159.77
CURRENT DISK SPACE (PAGES)	0	20	20
CUMULATIVE DISK STORAGE (PG-DA)	0.91		
CUMULATIVE MEMCRY--CPU (PG-HR)	13.62		
CUMULATIVE MEMCRY--WAIT (PG-HR)	74.65		
CUMULATIVE CPU TIME (HR)	0.32		
CUMULATIVE LINES PRINTED	8558		
CUMULATIVE PAGES PRINTED	226		
CUMULATIVE CARDS PUNCHED	1817		
CUMULATIVE CARDS READ	3382		
BATCH SESSIONS	12		
EXPIRATION DATE AND TIME:	05-05-70	24:00.00	

EXECUTION TERMINATED

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37.A.9

\$RUN \*MCUNT;PAR=G063 CN 7TP,PNAME=\*LT\*,MCDE=2CF,SIZE=30100,'ECATA',RING OUT  
EXECUTION BEGINS  
G063 CN 7TP,PNAME=\*LT\*,MCDE=2CF,SIZE=30100,'ECATA',RING OUT

\*DI\*: MCUNTED CN TCC1  
EXECUTION TERMINATED

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\$RUN -CEJ+\*SCLRC\* \*SINK\*; 2=\*DT\* 5=\*SCURCE\* 6=\*SINK\* 4=\*PUNCT\* 7=STCRG

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ENTRY = 503000 SIZE = 027ACC

NAME	VALUE	T	RF	NAME	VALUE	T	RF	NAME	VALUE	T	RF
GETSPACE	20D1FA	*		FREESPAC	20D4EE	*		ERRCR#	214E56	*	
MTS#	214B72	*		CANREPLY	2171C2	*		GCINFO	21721E	*	
SETIGERR	217444	*		PCINT	217778	*		SCARDS#	217D4C	*	
SPRINT#	217D5E	*		SPRINT	217D5E	*		SPLNCH#	217D7C	*	
SERCCM#	217D82	*		RFAC#	217E00	*		READ	217E00	*	
WRITE#	217E1C	*		WRITE	217E1C	*		LCSYMBOL	2189C8	*	
CDRCT	5000D8	5000D8		POSTAP	50024C	5000D8		REWIND#	500310	*500310	
IHCSLCG	5004AC	*5004A0		ALCC	5004EC	*		MAIN	502000	503000	
FICCS#	5272C8	*5272C8		IBCCM#	52E000	*52E000		ADCCN#	52A000	*52A000	
FCVZO	52A154	*		FCVAO	52A1FA	*		FCVLO	52A2E2	*	
FCVIG	52A5A8	*		FCVEC	52A95A	*		FCVCO	52ACAC	*	

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EXECUTION BEGINS

0100	0000	0000	03FF	03FF	03FF	03FF	03FF	03FF	03F6	03E9	03FB	03FB	03F8	03F8	03E2	03E4	03FF	03FF	03FF	03FF	03FF	03FF	03FF	03FF	03FF
03B3	03B0	03B1	03B7	03B2	039F	0393	0391	039A	03A6	0399	038E	038E	038E	039E	03BB	03AC	039B	03AC	03B1	03A9	03A4	0398	038C	039F	
0	0			30006			980		1		C	C.0			C.1000E	05									
0200	0000	0000	03BA	03BF	03B3	03A5	03A6	03A7	03AF	03E1	039C	0388	038F	03A7	03BF	03BC	03A8	03B2	03BF	03AB	039E	039C	0395	03A0	
0399	03A7	03D3	03DA	03CB	03CC	03CF	03CE	03CF	03BF	03B1	03B9	03BB	03BD	03BE	03A9	03A0	03BC	03D3	03D3	03CC	03C7	03CD	03D3	03D0	
2	782			30006			954		2		C	C.6850E	03		C.6730E	03									
0300	0000	0000	03FF	03FF	03FF	03FF	03FF	03E0	03CC	03B8	03B7	03C3	03C7	03C3	03A9	03A6	03C7	03D3	03CA	03C7	03C6	03C3	03CD	03CC	
03CF	03CE	03B9	03BC	03C3	03D9	03DE	03E0	03CB	03D4	03E1	03E0	03C6	03B9	03BE	03C4	03C9	03BE	03B0	03A7	03B7	03CF	03CE	03D2	03CB	
3	782			30006			966		3		C	C.6850E	03		C.6220E	03									
0400	0000	0000	03BC	03BB	03D3	03E0	03DF	03DC	03DC	03E1	03CF	03CE	03BF	03BF	03CC	03D4	03CE	03BF	03AC	03BC	03DC	03DE	03C7	03D6	
03CF	03CF	03E6	03E9	03DC	03CF	03CE	03DB	03EF	03F0	03E9	03E7	03E9	03F0	03F1	03D4	03CA	03D4	03E0	03E2	03CE	03CC	03C4	02E0	03F3	
8	1093			30006			976		4		0	C.6850E	03		C.6220E	03									
0500	0000	0000	03DE	03E0	03D4	03C3	03C2	03CA	03EF	03E7	03E7	03E7	03E7	03F0	03E7	03D4	03D4	03E5	02EE	03E8	03E0	03CE	03D4	03EF	
0146	0143	013D	011E	0125	0140	0135	012B	0122	011F	013F	0149	0141	0146	0133	0139	0153	013F	012A	012E	0134	013A	0133	012B	0123	
9	1151			30006			990		5		363	C.6890E	03		C.6220E	03									
0600	0000	0000	012C	011C	012A	0141	012F	0124	0122	012F	0147	0149	0145	0145	0135	013C	0139	0116	0113	0114	010F	0114	0CEB	CCA7	
03AF	0397	0393	03A0	03A5	0397	038C	0386	038F	03AC	03B7	03AD	03A4	03B0	03BA	03B4	03A4	0399	039C	03A7	03A8	03A0	038B	0382	03A0	
10	1151			30006			956		6		C	C.6850E	03		C.6220E	03									
0700	0000	0000	0392	0399	0399	0391	038C	038E	03A6	03B6	03AE	03AA	03AF	03AF	03B0	03AC	038F	038B	03A0	03A0	03A1	0394	027E	0387	
0103	0100	00F2	0CE3	0CE0	0CF0	00F5	00E9	00DD	0CE4	0107	010C	010C	0108	0101	0100	0111	010C	00F5	00F3	00FC	0CFD	0106	00FF	00E7	
16	1432			30006			936		7		306	C.7190E	03		C.6220E	03									
0800	0000	0000	038A	0393	039C	0398	039C	03E1	0379	039C	03AE	03AC	03A7	03A7	03AC	03AC	03A9	0394	0387	0394	039A	039E	0395	0382	
03BF	03C0	03C9	03C5	03B5	03A9	03BB	03C3	03BF	03AE	03A0	039D	03AE	03C2	03BF	03B1	03B6	03B7	03BE	03B4	03A0	039C	03AB	0386	03AE	
23	1432			30006			945		8		0	C.7190E	03		C.3730E	03									
0900	0000	0000	03E2	039C	0397	03A3	03AD	03AB	03A1	0393	0392	03AF	03CC	03BC	03B4	03BF	03C4	03C2	03BC	03A6	039C	03A8	03B1	03AE	
00CF	00D1	00CD	00D3	00E3	00DF	0000	00FF	00EC	00C2	00C9	00CB	00A3	00A3	00C3	00D6	00C3	00C9	00C9	00C6	00D3	00C9	0CAF	00AE	00B9	
26	1432			30006			941		9		85	C.7190E	03		C.3730E	03									
0001	0000	0000	01FE	02C9	0340	0369	0373	0384	0396	0396	038D	037C	0376	0395	03A9	03A7	03A3	03AA	03AE	03B2	03AF	0398	038B	0397	
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30	1432			30006			937		10		C	C.7190E	03		C.3730E	03									
0101	0000	0000	039E	0399	03A3	03AB	03A0	0397	0388	0399	03B2	03B7	03AC	03AF	03AD	03B4	03B1	03A2	038F	0394	039F	03A0	039C	0391	
03B4	03B4	03A1	0392	0397	03B2	03C7	03BF	03BC	03BE	03C4	03C4	03B9	03A6	03A5	03B2	03B7	03B4	03A5	039B	039C	03C2	03C7	03BD	03B7	
31	1432			30006			923		11		C	C.7190E	03		C.3730E	03									
0201	0000	0000	039A	039E	039F	03BC	03BE	03B3	03B5	03EF	03C0	03C4	03AA	03A0	03A1	03AC	03A7	03A2	038F	0386	03A1	03B1	03AF	03A7	
03AE	03A7	03AC	03AF	03B3	03B6	03A9	0396	0393	02A0	03A3	03A3	0391	0380	0384	03A4	03AE	03A0	03A4	02AB	03AF	03B2	03A4	0389	038B	



13C	1491	30006	916	32	0	C.7410E C3	C.3490E 03	0303 0000 0000 0375 0393 03A7 03A3 039E 03AC 03A6 03AB 039E 038F 038F 03A0 03A7 039B 038C 037E 037D 039E 03AB 03A1 03A1 03A2																
303	0000	0000	0375	0393	03A7	03A3	039E	03AC	03A6	03AB	039E	038F	038F	03A0	03A7	039B	038C	037E	037D	039E	03AB	03A1	03A1	03A2
3A7	03A4	03A3	03A7	03A4	039F	0387	038C	039C	039C	0297	0389	037C	037C	0395	03A6	03A3	039F	03A6	03AD	03AF	039E	0383	0386	0397
125	1491	30006	914	33	0	0.7410E C3	0.3490E C3	403	0000	0000	03A7	03A7	039E	038B	0392	03AC	03A4	039A	038F	037D	038C	03A9	03AB	03A6
403	0000	0000	03A7	03A7	039E	038B	0392	03AC	03A4	039A	038F	037D	038C	03A9	03AB	03A6	03A4	03A5	02AB	03A9	0399	0385	03EC	0396
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139	1491	30006	911	34	0	0.7410E C3	0.3490E C3	503	0000	0000	0393	0394	038E	037E	0373	03FA	03A1	039B	039D	0399	03A6	03A7	039E	0387
503	0000	0000	0393	0394	038E	037E	0373	03FA	03A1	039B	039D	0399	03A6	03A7	039E	0387	037D	0387	038F	038F	0381	0371	03EF	038C
37F	036F	0370	038F	03A3	039C	0396	0393	039A	03A0	0399	0386	0383	038F	038E	038C	0385	0377	0380	039F	03A7	039F	039C	039C	03A0
149	1491	30006	910	35	0	0.7410E C3	0.3180E 03	603	0000	0000	03E4	039B	0397	0395	038F	0296	0397	0396	0378	0373	037C	0385	0387	037E
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386	03CC	03BF	038E	03C0	03C3	03BF	03AF	039E	03A2	03E2	03B7	03B1	03A4	0399	03A7	03C4	03C7	03C1	03C6	03C6	03C7	03C3	03E0	03A1
150	1491	30006	940	36	0	0.7410E C3	0.3180E 03	703	0000	0000	03C0	03C4	03C7	03C4	03B6	03A4	03A9	0385	03B7	03BB	03AA	039A	03A3	03C3
703	0000	0000	03C0	03C4	03C7	03C4	03B6	03A4	03A9	0385	03B7	03BB	03AA	039A	03A3	03C3	03C9	03C0	03C5	03C9	03CC	03C6	03B2	03A0
3CB	03BF	03AE	03AC	03B0	03B6	03B3	03A9	0399	03A0	03B9	03C7	03C3	03BC	03BF	03CA	03C9	03C4	03B0	03B8	03B8	03BE	0387	03AB	039F
155	1491	30006	955	37	0	0.7410E C3	0.3180E 03	803	0000	0000	03A7	03B4	03BF	03BF	03B6	03AC	039F	03BB	03D3	03C9	03C7	03C8	03CC	03CF
803	0000	0000	03A7	03B4	03BF	03BF	03B6	03AC	039F	03BB	03D3	03C9	03C7	03C8	03CC	03CF	03C7	03B5	02AF	03BB	03C1	03C0	03B2	03A0
38E	03B0	03A4	039F	03BA	03CF	03C8	03C3	03C7	03CB	03CA	03C7	03E4	03A7	03AF	03B7	03B7	03AF	039E	02A7	03BF	03CF	03C3	03C0	03C7
162	1491	30006	955	38	0	0.7410E C3	0.3180E 03	903	0000	0000	03A9	03B4	03CE	03CA	03CF	03CE	03CD	03BF	03AB	03AF	03B9	03C0	03B9	03A7
903	0000	0000	03A9	03B4	03CE	03CA	03CF	03CE	03CD	03BF	03AB	03AF	03B9	03C0	03B9	03A7	03A0	03B2	03D4	03C4	03CF	03CF	03C0	03C0
3CA	03C9	03C9	03D6	03D3	02C7	03BE	03C1	03C9	03C3	03BE	03A7	03A2	03BF	03D6	03D4	03CC	03C9	03CF	02D7	03CC	03B5	03AC	03BB	03C0
163	1491	30006	965	39	0	0.7410E C3	0.3180E 03	0004	0000	0000	03C7	03CF	03BC	03AE	03B8	03BF	02C4	03C1	03AE	03A1	03B5	03CE	03CF	03C9
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3B7	03B4	03A7	0399	03A4	03C6	03C6	03C0	03C6	03C9	03C9	03C6	03E9	03A7	03B3	03BF	03C1	03BF	03AF	02A5	03BE	03D8	03E0	03D1	03CF
166	1491	30006	960	40	0	0.7410E C3	0.3180E 03	0104	0000	0000	03A4	03B0	03CF	03D6	03D4	03E4	03D7	03D2	03CF	03EA	03A1	03AE	03BB	03BF
0104	0000	0000	03A4	03B0	03CF	03D6	03D4	03E4	03D7	03D2	03CF	03EA	03A1	03AE	03BB	03BF	03B0	039C	0299	03AC	03C8	03C3	03BF	03BF
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167	1491	30006	963	41	0	0.7410E C3	0.3180E 03	0204	0000	0000	03D3	03C7	03C0	03CE	03D2	03D5	03C4	03B1	03AE	03C3	03E1	03E0	03D9	03D7
0204	0000	0000	03D3	03C7	03C0	03CE	03D2	03D5	03C4	03B1	03AE	03C3	03E1	03E0	03D9	03D7	03E0	03E1	03E0	03CC	03BC	03C6	03C6	03C3
3C5	03B6	03AB	03C0	03DA	03DA	03D9	03D4	03D4	03CF	03BF	03B1	03BC	03C6	03C7	03BC	03AF	03A6	03C0	03CA	03D2	03D3	02D6	03D9	03D9
172	1491	30006	962	42	0	0.7410E C3	0.3180E 03	0304	0000	0000	03BF	03DF	03E0	03DB	03D7	03E3	03E2	03E3	03CE	03C1	03C0	03CE	03C8	03C1
0304	0000	0000	03BF	03DF	03E0	03DB	03D7	03E3	03E2	03E3	03CE	03C1	03C0	03CE	03C8	03C1	03AF	03A7	03BE	03DB	03DE	03D2	03D4	03D7
3CC	03CF	03D1	03C0	03E9	03BC	03C6	03C0	03B4	03A2	039C	03BC	02D7	03D8	03CF	03CF	03D1	03CE	03CC	03BB	03B3	03BA	03C4	03C2	03B4
181	1491	30006	964	43	0	0.7410E 03	0.3180E 03	0404	0000	0000	03C3	03B7	03BE	03C9	03C9	02C7	03B3	03A9	03C3	03EB	03DA	03CF	03CE	03D3
0404	0000	0000	03C3	03B7	03BE	03C9	03C9	02C7	03B3	03A9	03C3	03EB	03DA	03CF	03CE	03D3	03D2	03CD	03BD	03AF	03BD	03C0	03C1	03BB
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188	1491	30006	963	44	0	0.7410E C3	0.3180E 03	0504	0000	0000	03C9	03E3	03E3	03E2	03E1	03E4	03EA	03E7	03D7	03CE	03CF	03E0	03DB	03C3
0504	0000	0000	03C9	03E3	03E3	03E2	03E1	03E4	03EA	03E7	03D7	03CE	03CF	03E0	03DB	03C3	03C4	03B7	03CC	03E7	03E3	03DE	03E4	03EC
3CF	03D0	03C9	03B9	03B0	03BC	03C0	03BB	03E6	03A5	03A5	03C3	02D7	03D4	03CC	03CC	03CF	03D7	03CB	03B9	03B3	03C3	03C6	03C5	03B7
197	1491	30006	960	45	0	0.7410E 03	0.3180E 03	0604	0000	0000	03B1	03AB	03B4	03BF	03BF	03BE	03A0	0398	03B1	03CE	03CA	03C7	03C8	03CC
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201	1491	30006	959	46	0	0.7410E 03	0.3180E 03	0704	0000	0000	03CC	03CC	03D7	03D3	03D2	03D6	03D4	03CC	03BF	03BF	03CC	03CC	03C6	03B5
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201	1491	30006	946	47	0	0.7410E C3	0.3180E 03	0804	0000	0000	03AC	03BE	03C9	03C1	03C3	02C7	03CD	03CC	03BC	03AB	03AB	03B7	03BE	03BC
804	0000	0000	03AC	03BE	03C9	03C1	03C3	02C7	03CD	03CC	03BC	03AB	03AB	03B7	03BE	03BC	03AC	039B	03A7	03C3	03C7	03BF	03BF	03C4
3BF	03C7	03C4	03B4	03A3	03AB	03B5	03B3	03AB	0396	038F	03A4	03BC	03B7	03B6	03B7	03BA	03C0	03B7	03A1	0397	039F	03A7	03A9	03A3
218	1491	30006	944	48	0	0.7410E 03	0.3180E 03	0904	0000	0000	03BB	03A9	03AE	03B7	03B9	03B0	03A5	0394	039C	03BE	03C0	03BC	03BB	03BB
0904	0000	0000																						



322	1491	30006	940	72	C	0.7410E 03	0.3120E 03		
0307 0000 0000 03BA 03BF 03AF 039C 039F 03A7 03AC 03A3 0396 0385 039F 03B9 03BE 03AF 03B1 03B5 03B7 03AF 039B 038F 039C 03A6	03AD 03A2 03AC 03B4 03B4 03B3 03A1 039A 03AF 03C9 03C7 03BD 03B7 03BF 03BD 03BF 03A4 039C 03AC 02A9 03AC 03A6 0394 0396 03B0	325	1491	30006	541	73	C	0.7410E 03	0.3120E 03
04C7 0000 0000 03B8 03B3 03A0 038F 0397 03B7 03C2 03B7 03B5 03B4 03BD 03BE 03B7 03AB 03AE 03BA 03C0 03BD 03AC 039F 03AC	019B 018F 0186 01AD 0189 018F 0183 01B1 01B7 01B6 01AF 019E 0196 01A4 01AD 01AB 01A9 018D 018B 01AF 01C1 01BC 01B4 01B7 01C1	329	1491	30006	938	74	46	C.7410E 03	C.3120E 03
05C7 0000 0000 0185 01A7 01A7 01A0 019C 01A7 01AC 01AF 019D 0194 019B 01A4 01AB 019F 018F 0186 0192 01B3 01A7 01A7 01A1 01AB	03BC 03B1 03B3 03B7 03B9 03B6 03A1 0394 03A1 03A4 03A6 039E 038F 038F 03AF 03C0 03BB 03B6 03BC 03BC 03C6 03BE 03A6 039C 03A5	340	1491	30006	942	75	C	0.7410E 03	0.3120E 03
06C7 0000 0000 03B6 03C0 03BF 03B0 03A5 03A6 03AF 03E6 03AF 03A4 0393 03AC 03BF 03C3 03BB 03B7 03BE 03BF 03BB 03A7 039E 03A1	039B 0399 03AA 03AF 03AC 039C 0386 0397 03FC 03BF 03B7 03B7 03BD 03BC 03BE 03B1 03A3 03A4 03B1 03B6 03AC 0394 038B 0397 03AC	348	1491	30006	939	76	0	C.7410E 03	C.3120E 03
07C7 0000 0000 02A5 039F 0393 0386 0391 03B3 03BE 03B3 03B0 03B2 03B3 03B7 03AB 0396 0392 03A0 02A7 03A1 0397 03E7 0398 03B7	0398 03BE 03C6 03C4 03BB 03BF 03BF 03C3 03B7 039F 039F 03AC 03AF 03AE 039E 038F 039D 03B7 03BE 03B3 03AF 03B7 03B8 03BB 03AE	353	1491	30006	937	77	0	0.7410E 03	C.3120E 03
08C7 0000 0000 03B7 03B0 03B0 03B4 03B5 03A6 0397 0394 03A5 03AC 03AC 039A 038E 039B 03B3 03B7 03B5 03B3 03B7 03BC 03BE 03A7	03C7 03C6 03B2 03A7 03E4 03BB 03B1 03AB 0394 0398 03AD 03C6 03C0 03BF 03BB 03C3 03C1 03BF 03A7 03A7 03AF 03B6 03B0 03A6 0395	360	1491	30006	932	78	0	0.7410E 03	0.3120E 03
09C7 0000 0000 038E 038F 039B 039D 0397 038E 0387 038F 03AB 03A7 03A6 03A6 03AE 03AC 03A9 0397 038A 0393 0397 039F 0394 0387	03FF 03FF	360	1491	30006	932	79	0	C.7410E 03	C.3120E 03
1299	C.280533F-C2								

.429CE 020.1421E 03C.4290E 020.5827E 050.1471E 030.7355E 020.2145E 020.7307E 010.2996E 010.4312E 000.2156E 00	1491	0.418275E 01	0.561066E-01	0.364413E 01	0.741000E 03	0.312000E 03
360	0.162753E 01	0.399658E 01	0.116200E 02	0.105616E 01	0.279310E 01	
20	0.646322E 00	0.451368E 00	0.329821E 00	0.795815E 00	0.238184E 03	
0.0022967	C.0013072	C.0025794	C.0042871	C.0302527	C.0782286	C.0301867
0.0	0.0	0.0	0.0	0.0126141	0.0527766	0.0373241
0.0061009	0.0	0.0070549	0.0	0.0040163	0.0223779	0.0227195
0.0	0.0072669	0.0	0.0	0.0064189	0.0443790	0.0186561
0.0181968	0.0	0.0	0.0	0.0239444	0.0084801	0.0322831
0.0	0.0	0.0	0.0	0.02386785	0.0188446	0.0
0.0	0.0	0.0	0.0	0.0226488	0.0335787	0.0
0.0	0.0	0.0	0.0	0.0540604	0.0124256	0.0126023
0.0	0.0	0.0	0.0	0.0152995	0.0	0.0
0.0	0.0003298	0.0	0.0	0.0	0.0	0.0
0.0	0.0004004	0.0	0.0006124	0.0032154	0.0027442	0.0006596
0.0022967	0.0005771	0.0	0.0009422	0.0043931	0.0049938	0.0026382
0.0	0.0	0.0009305	0.0006360	0.0042165	0.0122725	0.0025205
0.0	0.0	0.0016489	0.0	0.0071021	0.0299040	0.0071256
0.0	0.0	0.0	0.0	0.0112656	0.0283140	0.0151228
0.0061009	0.0072669	0.0070549	0.0	0.0126141	0.0262169	0.0288440
0.0181968	0.0	0.0	0.0	0.0040163	0.0336494	0.0243213
0.0	0.0	0.0	0.0	0.0064189	0.0569107	0.0235204
0.0082092	0.0	0.0	0.0	0.00661916	0.0485488	0.0
0.0167246	0.0	0.0	0.0	0.0811966	0.0243802	0.0126023
0.0317531	0.0	0.0	0.0	0.0	0.0	0.0745303
0.0654378	0.0	0.0	0.0	0.0	0.0	0.0
0.0773806	0.0057712	0.0	0.0	0.0	0.0	0.0
0.0519168	0.0763441	0.0	0.0	0.0	0.0	0.0
0.0	0.0727990	0.0257111	0.0	0.0	0.0	0.0
0.0133679	0.0351098	0.0672516	0.0590071	0.0	0.0	0.0
0.0181968	0.0	0.0	0.0935162	0.0295036	0.0188564	0.0113421
0.0	0.0	0.0	0.0	0.0639538	0.0416230	0.0391496
0.1003474	0.1009127	0.1081208	0.0542606	0.0542724	0.0341676	0.0525882
0.0840822	0.0104941	0.0437783	0.0237913	0.0506448	0.0812908	0.0
						0.0152995
						0.0163477
						0.0344267

C.0020965	C.0061127	C.0053825	C.0113421	C.0132501	C.0185030	C.0350038	0.0304340	0.0450975	0.0380542	
C.0640244	C.0642365	0.0376067	C.0609034	C.0542253	C.1205111	C.0510688	C.1203462	0.1557270	0.0660738	
C.0197162	C.0068783	C.0085743	0.0	0.0	0.0096343	0.0003298	0.0039574	C.0130028	C.0403292	
0.1779283	0.1744655	C.1191802	0.0630351	C.0193275	0.1145162	0.1004770	C.0663447	0.0441317	0.0181615	
0.0022967	C.0013073	C.0025794	C.0042871	C.0302927	0.0782286	0.0282669	0.0296685	0.0156528	C.0028502	
0.0	0.0	C.0	0.0	0.0	0.0126141	0.0527766	0.0392439	C.0408928	0.0142041	
0.0	0.0	0.0	0.0	0.0	C.0040163	C.0170897	0.0227195	C.0183970	0.0202815	
C.0061009	0.0	C.0	0.0	0.0	0.0064189	0.0496672	0.0115070	C.0322831	0.0137212	
0.0	C.0072669	C.0070549	C.0	0.0	0.0	0.0239444	C.0156292	0.0	0.0078794	
0.0181968	0.0	0.0	0.0	0.0	0.0	0.0281844	C.0188446	C.0	0.0092103	
C.0	0.0	0.0	0.0	0.0	0.0	0.0331429	0.0216242	0.0	0.0113421	
0.0	0.0	0.0	0.0	0.0	C.0401625	C.0243802	C.0126023	0.0264295	0.0127437	
0.0	0.0	0.0	0.0	0.0	0.0291973	C.0	C.0	0.0136741	0.0	
C.0	C.0	C.0	C.0	C.0	0.0	0.0	0.0	0.0344267	C.0163477	
	360	0.418275E	C1	C.561066E-C1	C.162753E	01	0.399658E	01	0.109616E	01
	360	0.312000E	C3	0.741000E	C3	C.280533E-C2	C.849050E	C5	0.238184E	C3
584	586	599	607	615	617	669	705	713	720	
758	771	782	787	800	800	805	817	819	891	
906	918	930	963	1005	1015	1055	1070	1082	1093	
1128	1133	1149	1151	1161	1180	1299	1388	1432	1491	
76	673	782	689	27	6221093	681	320	679	194	
					652	963	676	366	6881151	
									675	
									390	
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432	692	586	682	40	659	465	719	218	687	228	649	306	678	38	588	123	656	177	664
69	642	617	373	91	674	37	633	79	638	166	700	88	702	96	673	170	668	85	665
45	634	139	679	75	684	115	680	154	741	149	675	669	669	48	661	103	641	82	630
43	638	69	612	42	602	66	579	66	349	51	570	62	639	44	522	1070	651	219	669
255	652	150	649	142	637	202	658	34	605	138	640	423	654	230	653	211	622	209	642
122	631	214	638	23	501	579	651	203	627	201	644	584	654	81	662	166	655	64	616
86	596	116	642	94	643	78	644	162	651	72	627	30	560	486	649	416	653	526	648
231	654	193	642	111	638	196	632	21	524	295	638	566	648	317	639	32	574	158	646
406	635	28	640	579	657	30	611	46	617	1161	659	340	656	93	630	229	652	82	629
128	657	83	687	60	608	1388	731	75	649	220	668	202	494	361	706	66	629	118	686
248	711	31	666	28	355	65	585	26	577	200	583	263	591	137	586	96	599	51	554
518	351	43	573	72	584	75	578	58	582	35	595	171	609	566	534	215	597	20	519
80	632	1015	584	482	602	276	596	78	530	413	590	52	537	800	581	257	593	705	568
376	575	211	572	73	575	758	318	352	590	64	548	210	596	100	572	117	590	75	547
47	517	906	582	177	550	44	552	800	588	88	573	253	574	236	590	273	575	384	583
152	607	49	357	175	591	607	610	69	327	495	602	25	549	22	500	1055	601	541	540
404	583	237	599	1149	565	123	567	217	619	68	570	115	538	122	573	113	556	91	545
60	550	37	536	29	532	54	560	66	547	713	566	40	510	57	556	56	566	75	559
24	536	74	555	26	544	70	568	47	555	199	565	151	579	76	562	34	370	70	540
41	546	1180	565	28	518	262	566	163	579	583	556	545	490	470	547	74	539	132	563
122	550	110	543	33	520	127	544	78	547	104	547	149	563	119	557	25	523	43	544
106	540	56	549	52	639	43	539	20	551	93	542	77	536	54	534	44	478	58	548
805	569	817	566	228	558	25	529	518	701	158	570	179	563	281	566	142	592	25	544
44	513	91	546	90	548	819	701	45	510	194	539	930	570	545	549	270	565	385	556
615	552	140	425	37	536	56	570	43	631	121	546	57	538	1299	550	330	546	254	557
226	535	134	546	259	524	720	578	174	554	288	537	115	561	57	543	1082	710	128	550
279	548	87	542	49	556	365	550	1133	546	505	541	371	532	288	531	140	522	91	483
108	561	65	522	231	506	74	516	86	568	52	515	203	536	62	493	84	517	123	612
24	477	110	529	104	531	145	495	76	515	54	471	67	517	891	540	918	528	238	533
44	539	51	554	124	538	26	524	1005	561	46	545	341	521	599	433	183	536	81	546
35	509	92	537	107	537	158	537	60	532	38	519	79	440	126	535	86	521	129	534
787	312	29	537	771	539	60	329	176	518	1128	546	558	540	95	540	150	519	94	511
132	544	120	512	117	522	114	516	96	522	120	528	179	538	145	522	106	531	59	519
28	446	83	588	87	475	26	510	24	517	109	534	179	540	203	515	30	496	449	529
53	521	42	569	151	524	93	525	47	491	200	533	83	544	79	529	28	484	36	477

STCP 0  
 EXECUTION TERMINATED

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JCB NO. 017713

UNIVERSITY OF MICHIGAN TERMINAL SYSTEM (MODEL AN120)

16:12.00 03-02-70

USER: CCPL  
CHARGE NBR: 00RL

\*\*\*\* ON AT 16:12.15  
 \*\*\*\* OFF AT 16:34.10  
 \*\*\*\* ELAPSED TIME 1315.043 SEC.  
 \*\*\*\* CPU TIME USED 174.822 SEC.  
 \*\*\*\* STORAGE USED 7726.766 PAGE-SEC.  
 \*\*\*\* CARDS READ 281  
 \*\*\*\* LINES PRINTED 722  
 \*\*\*\* PAGES PRINTED 19  
 \*\*\*\* CARDS PUNCHED 37  
 \*\*\*\* DRUM READS 1687  
 \*\*\*\* APPROX. COST OF THIS RUN \$19.68

\*\*\*\* FILE STORAGE 3 PG-HF. .00

\*\*LAST SIGNON WAS: 15:47.16 03-02-70

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