

JOB NO. 055578 UNIVERSITY OF MICHIGAN TERMINAL SYSTEM (MODEL UN149)

14:29.11 12-15-69

TAPE USERS SEE CCNEWS #C149 \$SIGNON CCRL T=4.0M C=600 P=150

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MMMMM          MMMM          TTTTTTTTTTTTTTTTTTTTTTTTTT          SSSSSSSSS
MMMMMM        MMMMMM        TTTTTTTTTTTTTTTTTTTTTTTTTT          SSSSSSSSSSSSS
MMMMMMM      MMMMMMM      TTTTTTTTTTTTTTTTTTTTTTTTTT          SSSSSSSSSSSSSSSSSSS
MMMMMMNM     MMMMMMMM     TTTTTTTTTTTTTTTTTTTTTTTTTT          TTTTT
MMMMMMMMM    MMMMMMMMM    TTTTTT                             SSSSSS          SSSSSS
MMMMMMMMM    MMMMMMMMM    TTTTTT                             SSSSS          SSSSS
MMMMMMMMM    MMMMMMMMM    TTTTTT                             SSSSS          SSSSS
MMMMM  MMMM   MMMMM  MMMM   TTTTT                             TTTTT
MMMMM  MMMM   MMMMM  MMMM   TTTTT                             SSSSSSSSSSSSS
MMMMM  MMMM   MMMMM  MMMM   TTTTT                             SSSSSSSSSSSSSSSS
MMMMM  MMMM   MMMMM  MMMM   TTTTT                             SSSSSSSSSSSSSSSS
MMMMM  MMMM   MMMMM  MMMM   TTTTT                             SSSSSSSSSSSSSSS
MMMMM  MMMM   MMMMM  MMMM   TTTTT                             SSSSSSSSSSSSSSS
MMMMM  MMMM   MMMMM  MMMM   TTTTT                             SSSSSSSSSSSSSSS
MMMMM  MMMM   MMMMM  MMMM   TTTTT                             SSSSS          SSSSS
MMMMM  MMMM   MMMMM  MMMM   TTTTT                             SSSSSSS          SSSSSSS
MMMMM  MMMM   MMMMM  MMMM   TTTTT                             SSSSSSSSS          SSSSSSS
MMMMM  MMMM   MMMMM  MMMM   TTTTT                             SSSSSSSSSSSSSSSSSSS
MMMMM  MMMM   MMMMM  MMMM   TTTTT                             SSSSSSSSSSSSSSSS
MMMMM  MMMM   MMMMM  MMMM   TTTTT                             SSSSSSSSSSS

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\$SIGNCN CORL T=4.CM C=600 P=15C
**LAST SIGNCN WAS: 14:03.15 12-15-69
USER "CORL" SIGNED CN AT 14:29.14 CN 12-15-69
\$RUN *FORTRAN SPUNCH=-CBJ PAR=SOURCE,MAP
EXECUTION BEGINS

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0001      INTEGER*2  A(15000),NBR,LEN
0002      DIMENSION KCNT(6000),ZMCL(6000),DIST(32,32),MDST(32,32),LMOL(40)
0003      DIMENSION GTP(20),KCNC(10000),CDIST(32,32),FCONC(2),CLDST(32,32)
0004      DIMENSION VMAR(30),VLMAR(30),CMAR(30),OPTM(20)
0005      DIMENSION CSCT(32,32),OPTA(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,MCC/'FSF',3,128/
0019      READ(5,5) NBR,NSSB,NLEV,NOS,NDIM,NOC,NORG,NMA,BB,FRT,FAC,FREQ,SDR
0020      READ(5,17) NSPCA,NSTCA,NCIP,DPC,DRM
0021      NSSBS=NSSB
0022      LT=0
0023      KCUNT=0
0024      JK=0
0025      MOLES=0
0026      MKCNT=0
0027      NOG=0
0028      CCNCR=C.C
0029      CCNCL=10000.C
0030      ZMCL=C.C
0031      DO 74 I=1,40
0032      74  LMCL(I)=0
0033      BASE=C.C
0034      NOR=C
0035      L=0
0036      NKSC=SDR*FREQ/(2.0*FRT*FAC*NOS)
0037      SOEK=FRT*FAC*NOS*2.0/FREQ
0038      CALL FCSTAP
0039      IF(NOC.NE.0) GO TO 73
0040      28  CALL CCRCT(A,NBR,822)
0041      INBR=NBR/2
0042      22  NOC=NCC+1
0043      DO 23 I=4,INBR,25
0044      IF(I.GT.1004) GO TO 24
0045      BASE=BASE+A(I)/40.C
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      FCON=FCON+KLEV
0052      GO TO 23
0053      26  BASE=(BASE*30.0+A(I))/31.0
0054      23  CONTINUE
0055      FCONC(NCC)=FCON/LT

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0056      IF (NDC.EQ.1) GO 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) GO TO 70
0061      CALL WRITE(FSF,LEN,MCD,0,2)
0062      ITMZ=ITMZ+1
0063      GO TO 71
0064      70      CALL CCRCT(A,NBR,88C)
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      NCR=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      BASE=BASE+A(I)/(NSSB+C.0C01)
0074      IBASE=BASE
0075      IBASE=88C
0076      30      DO 60 I=NSSB,INBR,NOS
0077      IF(A(I).EQ.0) GO TO 50
0078      IF(A(I).EQ.1023) GO TO 50
0079      KLEV1=IBASE-A(I)
0080      IF (KLEV1.LE.NLEV) GO TO 40
0081      KOUNT=KCLNT+1
0082      MCLES=MCLES+KLEV1
0083      GO TO 60
0084      40      IF(KOUNT .LT. NKSD) GO TO 51
0085      L=L+1
0086      KCNT(L)=KOUNT
0087      ZMCLE(L)=MCLES
0088      KCNC(L)=MCLES/KCLNT
0089      IF(KOUNT.GT.MKCNT) MKCNT=KOUNT
0090      IF(KCNC(L).GT.CCNCM) CCNCM=KCNC(L)
0091      IF(KCNC(L).LT.CCNCL) CCNCL=KCNC(L)
0092      51      IF(KLEV1.GT.50) GO TO 50
0093      BASE=(BB*BASE+A(I))/(BB+1.0)
0094      IBASE=BASE
0095      50      KOUNT=C
0096      MOLES=0
0097      60      CONTINUE
0098      WRITE(6,572) L,MKCNT,NBR,IBASE,NOR,KOUNT,CCNCM,CCNCL
0099      GO TO 70
0100      80      NCG=NCG+1
0101      IF(NCG.GE.NCRG) GO TO 63
0102      NCR=0
0103      NSSB=NSSBS
0104      BASE=C.C
0105      GO TO 73
0106      63      CONTINUE
0107      STOT=C.C
0108      S1=C.0
0109      C1=0.0
0110      S2=C.0
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0111      SIC1=C.0
0112      C2=C.0
0113      S3=C.0
0114      S2C1=C.0
0115      SIC2=0.0
0116      C3=C.0
0117      DO 78 I=1,L
0118      SOAD=KCNT(I)*SDEK
0119      SOAD2=SCAD*SCAD
0120      SOAD3=SCAD2*SCAD
0121      CCNCZ=(KCNC(I)-CCNCL)/(CCNCM-CCNCL)
0122      CCAD=SCAD*CCNCZ
0123      CCAD2=CCAD*CCNCZ
0124      STOT=STCT+SCAD
0125      S1=S1+SCAD2
0126      C1=C1+CCAD
0127      S2=S2+SCAD3
0128      SIC1=SIC1+SCAD*CCAD
0129      C2=C2+CCAD2
0130      S3=S3+SCAD3*SOAD
0131      S2C1=S2C1+SCAD2*CCAD
0132      SIC2=SIC2+SCAD*CCAD2
0133      C3=C3+CCAD2*CCNCZ
0134      ZMOLE(I)=ZMOLE(I)-KCNT(I)*CCNCL
0135      IF (ZMOLE(I).GT.ZMMCL) ZMMCL=ZMOLE(I)
0136      IF (KCNT(I).LE.LMCL(I)) GO TO 78
0137      DO 72 I1=2,4C
0138      IF (KCNT(I).LT.LMCL(I1)) GO TO 77
0139      72  LMCL(I1-1)=LMCL(I1)
0140      I1=I1+1
0141      77  LMCL(I1-1)=KCNT(I)
0142      78  CONTINUE
0143      SUM=C.0
0144      DO 53 IE=C,38
0145      I=40-IE
0146      SUM=SUM+LMCL(I)*SCEK/STOT
0147      IF (SUM.GT.DPC.AND.LMCL(I).NE.LMOL(I-1)) GO TO 54
0148      53  CONTINUE
0149      54  LMO=LMCL(I-1)
0150      IF (DRM.GT.0.0) LMC=DRM/SCEK
0151      DO 21 I=1,NMA
0152      VMAR(I)=C.0
0153      VLMAR(I)=C.0
0154      21  CMAR(I)=0.0
0155      KGB=NCIP
0156      IF (NDIM.GT.NDIP) KGB=NDIM
0157      DO 85 I=1,KGB
0158      DO 85 J=1,KGB
0159      CDIST(I,J)=C.0
0160      CSDT(I,J)=C.0
0161      CLDST(I,J)=C.0
0162      85  MDST(I,J)=0
0163      DCM=(CCNCM-CCNCL)/(NDIP-C.001)
0164      DVM=(LMC-NKSC)/(NDIP-1.001)
0165      DC=(CCNCM-CCNCL)/(NDIM-C.0001)

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0166      DM=ZMMCL/(NDIM-0.CC1)
0167      DV=(MKONT-NKSD)/(NDIM-0.CO1)
0168      DVV=(MKONT-NKSD)/(NMA-0.CO1)
0169      ECC=(CCNCM-CCNCL)/(NMA-0.OO1)
0170      BLOG=ALOG(MKONT+C.COO1)
0171      SLOG=ALOG(NKSD+0.CCC1)
0172      DLV=(PLOG-SLOG)/(NDIM-0.COO1)
0173      DLVV=(BLOG-SLOG)/(NMA-0.OO1)
0174      KTCT=C
0175      DO 90  I=1,L,I
0176      KOZT=KONT(I)
0177      KTOT=KTCT+KOZT
0178      CLOG=ALOG(KOZT+0.OOO1)-SLOG
0179      CCNT=KONG(I)-CCNCL
0180      KOLT=KOZT-NKSD
0181      JKK=CLOG/DLV
0182      JMM=ZMCLE(I)/DM
0183      JCC=CCNT/CC
0184      JNN=KOLT/DV
0185      JVV=KOLT/DVV
0186      JLV=CLOG/DLVV
0187      JCLC=CCNT/ECC
0188      JKKK=KOLT/DVM
0189      JCCC=CCNT/DCM
0190      IF(JKKK.GE.NDIP)  JKKK=NDIP-1
0191      VMAR(JVV+1)=VMAR(JVV+1)+KONT(I)
0192      VLMAR(JLV+1)=VLMAR(JLV+1)+KONT(I)
0193      CMAR(JCLC+1)=CMAR(JCLC+1)+KONT(I)
0194      CDIST(JKK+1,JCC+1)=CDIST(JKK+1,JCC+1)+KONT(I)
0195      CSDT(JKKK+1,JCCC+1)=CSDT(JKKK+1,JCCC+1)+KOZT
0196      CLDST(JNN+1,JCC+1)=CLDST(JNN+1,JCC+1)+KONT(I)
0197      90  MDST(JKK+1,JMM+1)=MDST(JKK+1,JMM+1)+KONT(I)
0198      TVCL=KTCT
0199      DO 25  I=1,NMA
0200      VMAR(I)=VMAR(I)/TVCL
0201      VLMAR(I)=VLMAR(I)/TVCL
0202      25  CMAR(I)=CMAR(I)/TVCL
0203      KGB=NDIP
0204      IF (NDIM.GT.NDIP)  KGB=NDIM
0205      DO 95  I=1,KGB
0206      DO 95  J=1,KGB
0207      CSDT(I,J)=CSDT(I,J)/TVCL
0208      CDIST(I,J)=CDIST(I,J)/TVCL
0209      CLDST(I,J)=CLDST(I,J)/TVCL
0210      95  DIST(I,J)=MDST(I,J)/TVCL
0211      ADS=S1/STCT
0212      SMV=S2/STCT
0213      TMV=S3/STCT
0214      CVC=S1C1/STCT
0215      SMC=C2/STCT
0216      TMC=C3/STCT
0217      ACCN=C1/STCT
0218      SMVAC=S2C1/STCT
0219      SMCV=S1C2/STCT
0220      DMAX=MKONT*SCEK

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0221      DRM=LMC*SCEK
0222      DMIN=(NKSD  )*SOEK
0223      WRITE(6,100) LMC,SCEK
0224      WRITE(6,88) DCM,DVM,DC,DM,DV,DVV,DCC,BLOG,SLOG,DLV,DLVV
0225      WRITE(6,87) MKCNT,CMAX,DMIN,DRM,CONCM,CONCL
0226      WRITE(6,87) L,ADS,SMV,TMV,CVC,SMVAC
0227      WRITE(6,87) NKSD,ACCN,SMC,TMC,SMCAV,STOT
0228      READ (5,7)  (CTP(I),I=1,20)
0229      WRITE (6,CTP) ((CLDST(I,J),J=1,NDIM),I=1,NDIM)
0230      WRITE (6,CTP) ((CDIST(I,J),J=1,NDIM),I=1,NDIM)
0231      WRITE (6,CTP) ((DIST(I,J),J=1,NDIM),I=1,NDIM)
0232      READ(5,7) (OPTM(I),I=1,20)
0233      WRITE(6,OPTM) (VMAR(I),I=1,NMA),(VLMAR(I),I=1,NMA),(CMAR(I),
2 I=1,NMA)
0234      READ (5,7) (CPTA(I),I=1,20)
0235      WRITE(6,CPTA) ((CSDT(I,J),J=1,NDIP),I=1,NDIP)
0236      IF (NSPDA.LT.1) GC TO 18
0237      WRITE(4,717) (KCNT(I),KCNC(I),I=1,L)
0238      IF (NSTCA.LT.1) GC TO 19
18      READ (5,7)  (OPTB(I),I=1,20)
0239      WRITE(6,87) L,CMAX,DMIN,ADS, SMV,CVC
0240      WRITE(6,87) L,CCNCL,CCNCM,SOEK,TVOL,STOT
0241      WRITE(6,52) (LMOL(I),I=1,40)
0242      WRITE(6,OPTB) (KCNT(I),KCNC(I),I=1,L)
0243      CONTINUE
19      CONTINUE
0244      END
0245
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SUBPROGRAMS CALLED

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

SCALAR MAP

SYMBOL	LOCATION	SYMBOL	LOCATION	SYMBOL	LOCATION	SYMBOL	LOCATION	SYMBOL	LOCATION
FSF	28C	MCC	29C	NSSB	294	NLEV	298	NOS	29C
NDIM	2A0	NCC	2A4	NORG	2A8	NMA	2AC	BB	280
FRT	2B4	FAC	2B8	FREQ	28C	SDR	2C0	NSPDA	2C4
NSTDA	2C8	NDIP	2CC	DPC	2D0	DRM	2D4	NSSBS	2D8
LT	2DC	KCUNT	2EC	JK	2E4	MDLES	2E8	MKONT	2EC
NOG	2F0	CONCM	2F4	CONCL	2F8	ZMMOL	2FC	I	300
BASE	304	NOR	308	L	30C	NKSD	310	SOEK	314
INBR	318	IBASE	31C	KLEV	320	FCON	324	ITMZ	328
ISREC	32C	IPRT	330	KLEV1	334	STOT	338	S1	33C
C1	340	S2	344	S1C1	348	C2	34C	S3	350
S2C1	354	S1C2	358	C3	35C	SOAD	360	SOAD2	364
SCAD3	368	CONCZ	36C	COAD	370	COAD2	374	II	378
SUM	37C	IE	380	LMD	384	KGB	388	J	38C
DCM	390	DVM	394	DC	398	DM	39C	DV	3A0
DVV	3A4	DCC	3A8	BLOG	3AC	SLOG	3B0	DLV	3B4
DLVV	3B8	KTCT	3BC	KCZT	3C0	CLOG	3C4	CONT	3C8
KCLT	3CC	JKK	3CC	JMM	3D4	JCC	3D8	JNN	3DC
JVV	3E0	JLV	3E4	JCLC	3E8	JKKK	3EC	JCCC	3F0
TVCL	3F4	ADS	3FE	SMV	3FC	TMV	400	CVC	404
SMC	408	TMC	40C	ACON	410	SMVAC	414	SMCAV	418
DMAX	41C	DMIN	42C	LEN	424	NBR	426		

ARRAY MAP

SYMBOL	LOCATION	SYMBOL	LOCATION	SYMBOL	LOCATION	SYMBOL	LOCATION	SYMBOL	LOCATION
A	428	KONT	79BC	ZMLE	D77C	DIST	1353C	MDST	1453C
LMOL	1553C	CTP	155CC	KONC	1562C	CDIST	1F26C	FCONC	2026C
CLDST	20274	VMAR	21274	VLMAR	212EC	CMAR	21364	OPTM	2130C
CSDT	2142C	CPTA	2242C	OPTB	2247C				

FORMAT STATEMENT MAP

SYMBOL	LOCATION	SYMBOL	LOCATION	SYMBOL	LOCATION	SYMBOL	LOCATION	SYMBOL	LOCATION
572	224CC	571	224C7	52	224E0	17	224F5	717	22500
83	22506	7	2250C	82	22512	87	22519	5	22524
88	2252F	100	22536						

TOTAL MEMORY REQUIREMENTS C242CE BYTES
EXECUTION TERMINATED

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\$RLN *STATUS
EXECUTION BEGINS

STATUS OF OORL AT LAST SIGNOFF	USED	MAXIMUM	REMAINING
CUMULATIVE CHARGE (\$)	739.03	800.00	60.97
CUMULATIVE TERMINAL TIME (HR)	0.60		
CURRENT DISK SPACE (PAGES)	10	15	5
CUMULATIVE DISK STORAGE (PG-DA)	674.02		
CUMULATIVE MEMORY--CPU (PG-HR)	76.72		
CUMULATIVE MEMORY--WAIT (PG-HR)	262.11		
CUMULATIVE CPU TIME (HR)	1.74		
CUMULATIVE LINES PRINTED	38767		
CUMULATIVE PAGES PRINTED	1039		
CUMULATIVE CARDS PUNCHED	4724		
CUMULATIVE CARDS READ	13990		
BATCH SESSIONS	68		
TERMINAL SESSIONS	2		
EXPIRATION DATE AND TIME:	01-06-70	24:00.00	

EXECUTION TERMINATED

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\$RUN *MCUNT;PAR=C781 CN 7TP,PNAME=*DT*,MCDE=20F,SIZE=30100,'EDATA',RING OUT
EXECUTION BEGINS
G781 CN 7TP,PNAME=*DT*,MODE=2CF,SIZE=3C100,'EDATA',RING OUT

DT: MCUNTED CN TCCC
EXECUTION TERMINATED

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\$RUN -CBJ+*SOURCE* *SINK*; 2=*CT* 5=*SOURCE* €=*SINK* 4=*PUNCH* 7=STORG

ENTRY = 40F000 SIZE = 027AD4

NAME	VALUE	T	RF	NAME	VALUE	T	RF	NAME	VALUE	T	RF
GETSPACE	209B18	*		FREESPACE	209B18	*		ERROR#	20F754	*	
MTS#	20F770	*		CANREPLY	211CAE	*		GDINFO	211D3E	*	
SETIOERR	211F72	*		PCINT	212928	*		SCARDS#	212F00	*	
SPRINT#	212F12	*		SPRINT	212F12	*		SPUNCH#	212F24	*	
SERCCM#	212F36	*		REAC#	212FB4	*		READ	212FB4	*	
WRITE#	212FDC	*		WRITE	212FDC	*		LCSYMBOL	213AB0	*	
CRCT	4040D8	4C40D8		PESTAP	40424C	4040DE		REWIND#	404310	*404310	
IHCSTLOG	4044A0	*4C44A0		ALOG	4044BC	*		IBCOM#	40C000	*40C000	
MAIN	40F000	40F000		FICCS#	4332DC	*4332DC		ADCON#	434000	*434000	
FCVZO	434154	*		FCVAD	4341FA	*		FCVLD	434282	*	
FCVIO	4345A8	*		FCVEC	434A9A	*		FCVCO	434CAC	*	

EXECUTION BEGINS

0801	0100	0000	0372	0360	0367	037E	038F	038E	038B	038E	0389	0379	0365	035B	0368	037D	0384	0386	036E	0352	0364	0378	037C	0380
0356	0368	0381	037E	0376	036C	0356	0362	037E	0382	0380	0380	0381	0382	0370	035F	0361	036B	037C	0389	0380	0372	036E	0377	038B
1	84	30006	88E	1	0	0.2980E 03	0.2980E 03																	
0901	0100	0000	037E	037E	0370	0364	0352	035C	0382	0387	037A	0383	0387	0377	0371	036C	035F	0372	038F	0386	0378	0370	0366	0373
036C	035E	0357	035A	0373	0382	0380	037C	035E	0360	0377	0381	0381	0387	0389	0380	0374	0360	0357	0364	0377	0384	0377	0363	0359
1	84	30006	88E	2	0	0.2980E 03	0.2980E 03																	
0002	0100	0000	035B	035C	0380	038A	038C	0382	036F	035D	0376	038C	0384	038C	038F	0386	037E	0366	0352	0357	0374	0380	0382	0373
0382	0386	038C	037B	036A	0357	035C	0371	0378	0377	0368	0356	0357	0374	0382	037C	0383	0380	0374	0374	036E	0359	0360	0377	0386
1	84	30006	88E	3	0	0.2980E 03	0.2980E 03																	
0102	0100	0000	0377	036F	0360	0350	036B	0380	0378	037A	036B	0352	0365	0384	0387	0383	038B	0387	0380	0377	0367	0362	0374	0381
037F	038F	038F	0390	0390	0391	038C	037F	0369	0374	0389	038F	0394	038C	036E	0366	0384	0392	038C	038D	038F	0387	0380	0371	0364
1	84	30006	884	4	0	0.2980E 03	0.2980E 03																	
0202	0100	0000	0388	0387	038C	0384	0377	036B	0360	036D	0380	038A	0384	0367	0354	0367	0372	0379	0380	0383	0377	0379	0371	0354
036E	035C	0377	038A	0387	038B	0388	038C	0380	0370	035A	035F	0377	0380	0380	0373	035C	0356	0371	038C	0387	0380	0387	0380	037F
1	84	30006	88E	5	0	0.2980E 03	0.2980E 03																	
0302	0100	0000	036E	0383	0383	037F	0387	0383	0376	0370	035E	0357	0371	0387	038B	037F	036F	0363	0370	038E	038F	0384	038D	038D
0282	0286	0273	0261	0260	0277	028A	028B	0283	0292	0293	0283	0273	0266	0267	0283	029C	028E	027C	026E	0269	0282	0294	0295	0290
9	2478	30006	87E	6	519	0.4810E 03	0.1450E 03																	
0402	0100	0000	027B	027B	0269	027C	028E	0289	028C	0296	0293	0287	027F	026F	0272	0272	0284	0294	0287	027B	026B	0270	0285	0289
0356	036B	0378	037B	036E	0357	0360	0373	037C	0381	0380	0377	0374	036E	0353	034F	035A	036A	0374	0370	0357	0346	0357	036E	0373
33	2478	30006	87E	7	0	0.5360E 03	0.1450E 03																	
0502	0100	0000	0382	0381	036C	0356	0364	037B	0380	037C	0377	0380	037C	0367	0356	0356	035C	0373	037F	0373	0360	0356	0368	037D
0194	01AB	01BC	01BA	01B3	0197	0191	01AC	01B4	01AE	01B2	01B4	01B7	01AE	019C	018D	018F	01A7	01BD	01C5	01B9	0199	019F	01C0	01BB
61	2478	30006	877	8	303	0.5390E 03	0.1400E 03																	
0602	0100	0000	01B7	01B7	01AB	019E	019F	01AD	01B7	01B3	01AD	01BE	01C0	0186	01A4	0197	01A0	01AD	01B3	01BC	01AA	0199	01A7	01BF
013F	0146	0143	0134	0125	0127	0146	015E	0157	014F	0152	014B	0143	013B	012A	0133	014B	0157	0152	0144	012D	012B	0152	015E	0157
51	2478	30006	877	9	326	0.5430E 03	0.1400E 03																	
0702	0100	0000	0155	0147	012F	012E	0157	0162	0163	0161	0161	0180	01CA	018C	01F4	02EF	0336	0359	0362	034F	033E	0346	0360	036C
01EC	01FA	01FC	01FF	0203	01FF	01EF	01DE	01C7	01D7	01E9	01FC	01F3	01E3	01CF	01D6	01F1	01FD	01F3	01FF	01FF	01FD	01F7	01DA	01CF
119	2478	30006	87E	10	138	0.5430E 03	0.1400E 03																	
0802	0100	0000	01F8	01FD	01FB	01FF	01F8	01E8	01D6	01CB	01DF	01E9	01F2	01ED	01D9	01D1	01EB	01F7	01F2	01FA	01FF	01FF	01F7	01EC
0366	0354	0367	0378	0382	037C	0368	035A	0364	0383	038B	0387	0387	0387	0381	037A	0368	0363	0371	0382	0387	037E	036E	035A	036E
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0902	0100	0000	0366	0377	0380	0376	036C	0356	0367	0383	0384	0384	0386	0386	037A	0370	035E	035E	0370	037E	037F	0374	035C	034F
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0362 035B 0377 0382 03E5 0374 0364 0361 C37E 038A 0388 0387 0383 0387 037B 036E 0363 036A 037E 0382 037C 0371 035A 0362 0380
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1112 2478 300C6 89C 55 0 0.5590E 03 0.1290E 03
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1233 2478 300C6 884 59 0 0.5590E 03 0.1290E 03
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0807 0100 0000 022A 0236 022D C22A C227 C226 021C 0216 0208 020F 022A 0227 021E 0217 0207 0211 022F 0235 0233 0238 023C 0230
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20	0.523710E 00	C.331128E 00	C.230129E 00	0.328151E 00	0.707750E 03				
0.0	0.0	C.0047015	0.0043157	0.0159C62	0.0135164	0.0115554	0.0070104	0.0065761	0.0023062
0.0	0.0	C.0	0.0027486	C.0	0.0112641	0.0087745	0.0	0.0090118	0.0
0.0	0.0	C.0	C.0	C.0	0.0	0.0068539	0.0	0.0037574	0.0
0.0	0.0	0.0	C.0	C.0	0.0	0.0	0.0044722	0.0	0.0042213
0.0	0.0	C.0	0.0	C.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	C.0	C.0	0.0	0.0051816	0.0	0.0	0.0
0.0	0.0	C.0	C.0	C.0	0.0	0.0053839	0.0	0.0	0.0
0.0	0.0	C.0	C.0	C.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	C.0	C.0	C.0	0.0066840	0.0	0.0	0.0	0.0
0.0006528	0.0003938	C.0008119	C.0013783	C.0024C33	0.0007175	0.0006878	0.0008173	0.0000674	0.0
0.0011895	0.0001079	C.000294C	C.0016993	C.0031721	0.0018989	0.0010547	0.0003237	0.0018908	0.0
0.0019529	0.0007472	0.00147C1	C.0025975	C.0051654	0.0035632	0.0013136	0.0009171	0.0021147	0.0002185
0.0025139	0.0020635	0.0018396	C.0054729	C.0103848	0.0082701	0.0041809	0.0021606	0.0031451	0.0022766
0.0070050	0.002460C	C.0059261	C.0100C44	C.0192213	0.0199010	0.0076038	0.0065977	0.0033555	0.0051816
0.0287753	0.0104495	C.0092573	C.0281252	C.0368322	0.0454C17	0.0284300	0.0183123	0.0127099	0.0335711
0.0296843	0.0088041	0.0184498	C.03343C9	C.0522314	0.0631610	0.0439964	0.0300592	0.0094056	0.0216192
0.0108973	0.0	C.0151672	C.0154423	C.0398856	0.0473411	0.0235451	0.0100395	0.0155529	0.0113990
0.0	0.0	C.0	C.0027486	C.0026839	0.0138940	0.0181828	0.0026164	0.0127692	0.0
0.0	0.0	C.0	C.0	C.0	0.0066840	0.0105655	0.0044722	0.0	0.0042213

0.0079302	0.0	C.0	C.0	C.C	C.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0116309	0.0	0.0	C.0	C.C	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0200601	0.0	C.0	C.0	C.C	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0423078	0.0	0.0	0.0	C.C	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0801650	0.0070913	C.0	C.0	C.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.1356980	0.1049833	C.0111832	C.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0678813	0.1748688	C.0607550	C.0073368	C.C	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0177269	0.0419356	C.0773463	C.0375066	0.0124482	0.0023062	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	C.0027486	0.0191323	0.0113909	0.0125076	0.0033582	0.0037574	0.0	0.0	0.0	0.0
0.0	0.0	0.0	C.C	0.0	0.0	0.0	0.0150377	0.0066840	0.0042213	0.0064925	0.0066840
0.0845671	0.1520752	0.2482824	C.1746476	C.1200453	0.0861397	0.0482204	0.0176676	0.0253065	0.0066840	0.0554196	0.0120679
0.0068539	0.0037574	C.0042213	C.0044722	C.0	0.0051816	0.0053839	0.0	0.0	0.0138751	0.00975602	0.0358099
0.0040406	0.0038896	C.0055727	C.0060582	C.0082323	0.0118279	0.0205079	0.0217999	0.0318368	0.0072181	0.0024950	0.0096376
0.1015577	0.1503068	C.1852239	C.1256180	0.1237352	0.0655347	0.0389254	0.0139695	0.0138751	0.0072181	0.0024950	0.0096376
0.0586780	0.0239929	C.0125049	C.C125211	C.C208855	0.0323304	0.0352974	0.0656021	0.0744197	0.0072181	0.0024950	0.0096376
0.1126896	0.0981429	C.0832319	C.0563286	C.0464645	0.0298515	0.0317936	0.0292176	0.0426774	0.0072181	0.0024950	0.0096376
0.0063091	0.0033123	C.0044155	C.0111481	C.0211256	0.0144497	0.0072370	0.0045909	0.0072181	0.0065491	0.0096376	0.0311166
0.0114502	0.0031262	C.0091737	C.0164079	C.0306742	0.0289857	0.0146655	0.0074986	0.0065491	0.0095162	0.0311166	0.0153344
0.0293093	0.0097833	C.0079680	0.0246753	C.0323088	0.0402579	0.0253415	0.0180210	0.0095162	0.0034310	0.0075040	0.0018153
0.0219537	0.0044263	0.0136243	C.0160006	C.0366003	0.0387150	0.0227656	0.0203703	0.0034310	0.0059746	0.0075040	0.0018153
0.0027513	0.0043778	C.0044992	C.0144766	C.0151159	0.0318287	0.0188949	0.0087070	0.0059746	0.0089768	0.0018153	0.0040568
0.0088554	0.0	0.0088338	0.0111265	C.0142770	0.0231216	0.0088904	0.0036684	0.0089768	0.0042888	0.0040568	0.0023062
0.0020419	0.0	0.0	C.0043157	C.0144254	0.0105574	0.0106302	0.0063711	0.0042888	0.0022873	0.0023062	0.0066840
0.0	0.0	0.0047015	0.0	C.0047689	0.0023386	0.0049415	0.0	0.0022873	0.0056536	0.0	0.0066840
0.0	0.0	C.0	C.0027486	C.0026839	0.0138940	0.0056401	0.0026164	0.0056536	0.0071156	0.0042213	0.0066840
0.0	0.0	C.0	C.0	0.0	0.0066840	0.0205538	0.0044722	0.0071156	0.0042213	0.0066840	0.0066840

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855	860	867	873	883	885	895	947	970	975										
995	1009	1019	1031	1037	1038	1040	1056	1070	1082										
1162	1245	1253	1288	1393	1565	1658	1921	1996	2478										
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416	148	217	383	410	319	289	325	303	398	267	149	221	370	1921	396	40	390	417	252
166	452	96	398	347	154	402	359	258	427	248	257	51	504	733	450	488	391	349	357
185	5361082	424	413	389	644	330	451	287	276	195	217	420	25	469	187	291	127	304	

12
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288	394	289	267	416	184	235	361	194	340	283	407	233	169	189	341	90	419	620	331
390	147	282	343	158	346	388	250	407	407	441	529	799	345	293	539	281	140	106	292
112	402	509	444	384	234	42	500	286	292	322	148	359	538	386	388	451	257	96	467
117	179	194	533	159	363	286	199	65	314	386	468	270	276	673	543	171	467	160	214
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299	217	340	538	440	386	158	535	289	150	443	387	348	146	156	388	691	511	364	465
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52	153	60	420	579	184	172	339	593	376	479	449	348	143	321	317	178	143	99	210
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617	493	41	495	277	420	330	143	229	397	196	495	27	350	615	392	227	529	127	253
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211	157	348	313	219	203	151	423	53	150	320	300	173	296	534	310	116	371	132	331
199	318	214	385	424	151	454	495	392	152	267	506	25	454	39	240	30	470	1996	388
99	284	101	154	171	496	346	203	300	147	21	464	339	337	332	474	408	438	523	271
322	435	173	517	232	526	290	434	282	365	330	148	33	171	298	433	234	390	225	304
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107	158	128	258	206	314	201	412	174	361	117	516	264	168	82	200	129	324	146	353
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93	349	20	295	97	274	139	373	86	342	23	144	115	532	75	359	88	431	140	172
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65	502	51	141	202	151	44	397	113	321	232	355	38	399	37	421	34	297	289	398
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387	363	42	309	366	144	111	356	81	344	568	359	63	358	472	468	103	493	91	493
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621	147	22	308	216	156	20	374	250	536	331	541	396	348	232	369	26	191	197	145
266	270	36	370	25	143	83	366	33	337	767	422	20	316	562	300	386	384	789	280
548	294	26	396	23	207	40	215	23	249	779	483	377	466	580	516	165	535	206	344
436	542	367	391	227	302	48	359	1038	384	552	496	308	390	187	367	63	301	249	153
192	297	873	334	359	444	585	548	342	547	995	341	517	311	367	325	240	542	276	519
657	287	429	247	677	378	341	543	26	246	229	335	348	361	217	377	640	342	718	417
422	365	435	149	649	220	64	240	1009	406	500	384	128	170	755	528	242	448	227	424
407	544	524	547	293	498	123	328	220	292	123	394	120	373	1393	505	664	304	202	541
176	260	207	364	462	353	634	338	318	317	375	360	421	327	334	460	213	542	136	350
29	311	164	257	711	281	724	457	420	149	309	371	268	404	348	267	750	391	487	269
396	337	258	146	182	515	867	374	224	510	344	143	458	395	212	262	29	330	1565	559
323	491	451	239	341	288	279	542	582	422	478	374	21	333	846	417	417	428	402	299
393	326	291	352	214	343	626	349	345	540	64	342	47	154	848	474	417	407	30	245
402	382	581	280	355	449	228	337	29	382	143	162	549	524	384	148	191	245	89	520

031	346	365	263	388	313	270	188	149	389	206	382	193	433	243	261	388	395	63	513
603	377	170	350	55	278	883	245	568	255	633	238	645	146	363	386	352	197	415	427
740	318	664	357	577	205	311	423	445	280	445	313	280	147	466	423	433	458	339	444
581	352	548	415	401	377	538	358	206	289	671	485	488	323	507	412	197	533	81	511
348	452	522	312	348	479	449	448	424	303	459	432	127	348	123	495	87	499	180	301
318	539	496	295	286	383	503	317	310	191	381	312	636	452	343	405	276	404	194	162
295	530	412	443	441	337	808	460	389	265	46	350	403	307	314	332	152	153	253	349
712	288	351	533	311	404	304	340	274	529	564	439	466	170	321	508	29	348	295	293
326	535	332	415	33	461	35	324	443	538	592	310	467	544	46	372	234	533	411	424
397	365	284	538	446	309	776	363	457	373	294	281	354	493	362	373	337	454	301	530
112	305	580	357	461	323	195	270	255	324	749	530	92	389	353	235	314	428	313	444
91	348	88	290	475	367	179	243	290	340	256	340	49	155	185	459	261	355	163	357
703	350	337	167	255	357	330	356	268	537	134	285	323	382	354	529	97	320	25	325
58	285	89	340	37	297	24	310	319	353	239	376	152	291	25	323	120	392	81	455
258	259	386	180	279	251	133	367	103	284	35	266	85	198	156	269	275	301	46	315
198	274	37	296	24	284	205	305	75	385	70	257	22	239	190	329	31	371	30	249
109	435	36	140	241	261	56	136	27	307	70	322	105	336	175	368	22	378	368	389
20	152	227	339	62	385	241	352	40	353	73	355	24	143	105	263	33	380	212	333
87	267	75	259	62	360	105	204	115	288	37	317	26	313	525	144	39	290	96	309
51	309	537	297	56	263	71	425	22	207	77	365	300	365	64	367	96	320	51	395
56	250	115	281	47	481	31	284	76	201	79	373	109	226	101	522	65	223	367	151
78	407	35	289	84	352	30	320	353	363	68	409	25	305	23	269	382	344	139	238
428	374	37	300	59	314	368	270	166	328	118	327	151	390	57	314	773	315	24	391
326	366	106	434	36	153	23	457	243	392	55	377	24	313	99	137	32	291	22	129
43	357	48	502	29	332	23	285	21	296	28	135	466	374	37	376	31	405	641	384
314	372	536	367	295	532	384	146	605	229	432	306	263	375	392	474	351	255	380	463
539	278	134	352	137	334	91	436	679	318	364	342	39	424	386	431	177	423	67	288
232	321	410	349	221	435	1037	349	457	436	380	157	237	387	236	317	821	450	309	152
641	370	399	278	230	371	407	357	256	386	670	403	437	526	284	308	260	181	28	234
174	317	314	383	242	506	613	415	350	429	466	540	264	431	387	223	164	356	525	423
629	141	369	367	380	305	947	399	593	351	275	300	154	379	739	424	446	356	250	392
365	419	105	335	209	259	329	362	305	342	332	264	419	458	1056	483	811	371	278	364
158	439	511	187	62	327	367	364	524	299	745	381	468	388	467	392	401	145	127	342

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245	494	401	161	484	366	104	356	533	415	181	354	56	302	554	273	194	424	28	248
616	276	100	533	22	304	529	374	171	324	332	220	219	530	678	144	611	374	427	383
292	356	363	232	430	140	112	391	855	540	226	324	205	316	573	444	406	142	212	150
585	344	232	285	447	320	116	303	221	357	55	158	23	332	1253	428	422	424	371	340
361	333	230	391	523	418	110	366	710	145	103	321	99	368	739	319	243	391	25	312
613	351	337	452	288	315	206	393	292	363	32	279	49	338	38	289	600	344	442	536
34	314	203	462	32	350	25	452	422	274	24	299	394	296	346	350	215	518	651	347
378	282	188	333	398	342	466	535	376	400	114	336	33	255	24	329	720	365	415	356
410	404	191	162	238	301	400	261	270	371	292	328	367	318	495	143	245	501	77	513
71	247	38	278	37	330	129	311	1019	278	292	493	715	237	416	318	480	334	453	195
435	440	73	398	25	351	241	240	25	289	147	287	688	332	205	474	634	218	441	353
327	199	274	341	839	404	339	382	282	405	302	140	487	345	469	307	257	381	394	390
170	162	161	321	390	365	549	351	22	396	108	410	52	274	310	241	252	322	258	283

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040	496	193	296	271	224	233	299	267	356	477	280	544	410	183	388	136	420	222	355
29	302	313	357	601	304	609	540	187	306	503	269	283	454	240	144	300	353	304	539
607	406	59	414	168	319	247	385	407	399	388	348	444	523	252	285	217	357	194	229
766	343	515	541	279	357	344	373	604	373	451	324	506	391	348	392	472	237	426	482
349	408	213	296	630	357	105	280	145	372	551	369	392	295	374	148	38	324	46	491
237	324	67	293	282	534	496	444	299	355	302	532	185	338	150	441	197	490	713	297
424	541	339	343	380	467	43	322	135	207	142	325	26	151	48	135	58	511	367	327
119	343	81	138	821	343	323	465	204	258	307	143	356	533	512	436	203	356	180	414
261	347	227	219	305	147	376	307	269	330	386	186	243	406	290	281	331	509	33	379
339	522	895	331	231	532	264	364	307	402	279	452	338	295	307	147	78	331	434	344
444	335	229	260	37	249	401	440	305	359	276	166	277	274	247	196	387	517	429	146
368	536	150	337	783	372	409	363	147	265	262	333	339	335	355	147	350	400	65	353
65	298	374	531	65	348	144	313	56	297	358	141	415	404	187	324	107	305	42	474
352	144	88	306	485	374	34	289	60	344	113	299	407	144	44	321	52	262	144	423
316	274	311	329	400	340	382	345	220	314	104	295	72	343	72	166	260	360	223	507
108	143	134	179	67	490	28	306	162	356	77	315	54	187	44	380	37	369	212	347
123	376	137	420	21	132	84	321	31	150	223	379	169	209	719	353	248	224	335	481
199	339	141	260	127	284	100	355	53	143	288	461	154	324	244	309	88	292	101	391
47	338	153	244	98	369	92	436	115	286	36	482	28	341	182	346	127	492	178	338
39	396	218	404	76	499	45	317	329	350	59	337	86	359	415	414	47	374	68	307
78	464	101	232	67	277	62	141	65	330	26	325	39	171	70	286	419	314	90	196
96	331	50	338	111	360	74	329	27	289	357	351	46	300	64	144	72	338	43	289
80	497	26	294	32	416	92	335	32	290	43	486	59	456	65	210	67	139	48	319
22	200	47	496	21	331	39	370	44	339	37	478	44	305	69	349	83	309	1070	346
378	249	387	141	221	330	390	363	430	221	106	349	176	356	64	229	400	456	112	375
106	331	137	372	132	326	21	291	34	484	598	387	23	288	27	305	23	390	78	324
25	316	28	324	386	376	53	298	29	238	75	331	37	346	22	140	25	399	28	320
87	155	145	379	27	278	24	402	242	362	42	314	40	302	32	465	28	286	28	242
209	307	71	245	23	209	644	228	22	315										

STOP 0
EXECUTION TERMINATED

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23.20

USER: GCRL
CHARGE NBR: 00RL

**** ON AT 14:29.14
 **** OFF AT 14:39.18
 **** ELAPSED TIME 603.536 SEC.
 **** CPU TIME USED 125.959 SEC.
 **** STORAGE USED 5485.986 PAGE-SEC.
 **** CARDS READ 281
 **** LINES PRINTED 778
 **** PAGES PRINTED 21
 **** CARDS PUNCHED 137
 **** DRUM READS 26
 **** APPROX. COST OF THIS RUN \$14.95

**** FILE STORAGE 5 PG-HR. .00

**LAST SIGNON WAS: 14:03.15 12-15-69

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23.21