JOB NO. 017952   UNIVERSITY OF MICHIGAN TERMINAL SYSTEM (MODEL AN12C)   17:54.21   03-02-70

$SIGNON CORL   T=4.0M   C=600   P=150

28-82

197

```
MMMMM                     MMMMM  TTTTTTTTTTTTTTTTTTTTTTTTT        SSSSSSSSS
MMMMMM                   MMMMMM  TTTTTTTTTTTTTTTTTTTTTTTTT      SSSSSSSSSSSSS
MMMMMMM                 MMMMMMM  TTTTTTTTTTTTTTTTTTTTTTTTT    SSSSSSSSSSSSSSSSS
MMMMMMMM               MMMMMMMM            TTTTT            SSSSSS         SSSSSSS
MMMMMMMMM             MMMMMMMMM            TTTTT           SSSSS             SSSSS
MMMMMMMMMM           MMMMMMMMMM            TTTTT           SSSSS
MMMMM MMMMM         MMMMM MMMMM            TTTTT            SSSSSS
MMMMM  MMMMM       MMMMM  MMMMM            TTTTT             SSSSSSSSSSSSS
MMMMM   MMMMM     MMMMM   MMMMM            TTTTT               SSSSSSSSSSSSS
MMMMM    MMMMMMMMMMMM     MMMMM            TTTTT                 SSSSSSSSSSSSS
MMMMM     MMMMMMMMMM      MMMMM            TTTTT                         SSSSSSS
MMMMM      MMMMMMMM       MMMMM            TTTTT                           SSSSS
MMMMM       MMMMMM        MMMMM            TTTTT                           SSSSS
MMMMM        MMM          MMMMM            TTTTT           SSSSS           SSSSS
MMMMM                     MMMMM            TTTTT           SSSSSSS       SSSSSSS
MMMMM                     MMMMM            TTTTT             SSSSSSSSSSSSSSSSS
MMMMM                     MMMMM            TTTTT               SSSSSSSSSSSSS
MMMMM                     MMMMM            TTTTT                 SSSSSSSSS
```

28-32, 1

```
$SIGNON OORL   T=4.CM   C=6CC   P=15C
**LAST SIGNON WAS: 16:12.15    C3-C2-7C
 USER "OORL" SIGNED ON AT  17:54.23 CM C3-C2-7C
$RUN *FORTRAN SPUNCH=-CEJ          PAR=SOURCE,MAP
EXECUTION BEGINS
```

Exp 28-32

```
0001            INTEGER*2  A(15050),NBF,LEN
0002            DIMENSION KONT(6000),ZMCLE(6000),DIST(32,32),MDST(32,32),LMCL(40)
0003            DIMENSION CTP(20),KONC(10000),CDIST(32,32),FCONC(2),CLDST(32,32)
0004            DIMENSION VMAP(30),VLMAR(30), CMAR(30),CPTM(20)
0005            DIMENSION CSCT(32,32),CPTA(20),CPTE(20)
0006       572  FORMAT(6I10,2E12.4)
0007       571  FORMAT(25(1X,74))
0008        52 FORMAT(10I8/10I8/10I8/10I8)
0009        17  FORMAT (3I10,2F10.4)
0010       717  FORMAT(20I4)
0011        83  FORMAT(111C)
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(1I15,1E14.6)
0018            DATA FSF,LEN,MCC/'FSF',3,12E/
0019            READ(5,5) NBF,NSSB,NLEV,NCS,NDIM,NCC,NCRC,NMA,BB,FRT,FAC,FREQ,SCR
0020            READ(5,17) NSPDA,NSTDA,NDIP,CPC,DRM
0021            NSSES=NSSB
0022            LT=0
0023            KOUNT=0
0024           JK=0
0025            NCLES=0
0026            NKONT=0
0027            NOG=0
0028            CONCN=0.0
0029            CONCL=10000.0
0030            ZMMCL=0.0
0031            DO 74 I=1,40
0032        74  LMCL(I)=0
0033            BASE=0.0
0034            NCR=0
0035            L=0
0036            NKSC=SCR*FREQ/(2.0*FRT*FAC*NCS)
0037            SCEK=FRT*FAC*NCS*2.0/FREQ
0038              CALL PCSTAP
0039            IF(NCC.NE.0) GO TO 73
0040        28  CALL CCFCT(A,NBF,822)
0041            INBR=NBF/2
0042        22  NCC=NOG+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            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
```

28·32.3

```
0056                IF (NCC.EQ.1) GO TO 28
0057                WRITE (6,82) (FORMC(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,NCC,0,2)
0062                ITMZ=ITMZ+1
0063                GO TO 71
0064          70    CALL CORCT(A,NBR,&8C)
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)/(NSSE+0.0001)
0074                IBASE=BASE
0075          30    DO 60    I=NSSE,INBR,NCS
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                KCNT(L)=KCUNT
0086                ZMOLE(L)=MCLES
0087                KCNC(L)=MCLES/KCUNT
0088                IF(KCUNT.GT.MKCNT)  MKCNT=KCUNT
0089                IF(KCNC(L).GT.CCNCM) CCNCM=KCNC(L)
0090                IF(KCNC(L).LT.CCNCL)  CCNCL=KCNC(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,MKCNT,NBB,IBASE,NCR,KCUNT,CCNCM,CCNCL
0098                GO TO 70
0099          80    NCC=NCC+1
0100                IF(NCC.GE.NCBC) GO TO 63
0101                NCR=0
0102                 NSSE=NSSBS
0103                BASE=0.0
0104                GO TO 73
0105          63    CONTINUE
0106                SIGT=0.0
0107                S1=0.0
0108                C1=0.0
0109                S2=0.0
0110                SIG1=0.0
```

28-32.4

```
0111                C2=0.0
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)*SOEK
0118                SOAD2=SOAD*SOAD
0119                SOAD3=SOAD2*SOAD
0120                CONCZ=(KONC(I)-CONCL)/(CONCM-CONCL)
0121                COAD=SOAD*CONCZ
0122                COAD2=COAD*CONCZ
0123                STOT=STOT+SOAD
0124                S1=S1+SOAD2
0125                C1=C1+COAD
0126                S2=S2+SOAD3
0127                S1C1=S1C1+SOAD*COAD
0128                C2=C2+COAD2
0129                S3=S3+SOAD3*SOAD
0130                S2C1=S2C1+SOAD2*COAD
0131                S1C2=S1C2+SOAD*COAD2
0132                C3=C3+COAD2*CONCZ
0133                ZMOLE(I)=ZMOLE(I)-KONT(I)*CONCL
0134                IF (ZMOLE(I).GT.ZMMCL) ZMMCL=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    LMCL(I1-1)=LMCL(I1)
0139                I1=I1+1
0140          77    LMCL(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)*SOEK/STOT
0146                IF(SUM.GT.CPC.AND.LMCL(I).NE.LMCL(I-1))  GO TO 54
0147          53    CONTINUE
0148          54    LMC=LMCL(I-1)
0149                IF(CRM.GT.0.0)  LMC=CRM/SOEK
0150                DO 21 I=1,NMA
0151                VMAR(I)=0.0
0152                VLMAR(I)=0.0
0153          21    CMAR(I)=0.0
0154                KGB=NDIP
0155                IF (NCIM.GT.NDIP)  KGB=NCIM
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                ECM=(CONCM-CONCL)/(NDIP-0.001)
0163                DVM=(LMC-NKSD)/(NDIP-1.001)
0164                EC=(CONCM-CONCL)/(NCIM-0.0001)
0165                DM=ZMMCL/(NCIM-0.001)
```

28-32.5

```
0166                DV=(MKCNT-NKSD)/(NDIM-0.001)
0167                DVV=(MKCNT-NKSD)/(NMA-0.001)
0168                DCC=((CCMCM-CCNCL)/(NMA-0.001)
0169                BLOG=ALOG(MKCNT+0.0001)
0170                SLOG=ALOG(NKSD+0.0001)
0171                DLV=(ELOG-SLOG)/(NDIM-0.0001)
0172                DLVV=(BLOG-SLOG)/(NMA-0.001)
0173                KTOT=0
0174                DO 90  I=1,L,1
0175                KOZT=KCNT(I)
0176                KTOT=KTOT+KOZT
0177                CLOG=ALOG(KOZT+0.0001)-SLOG
0178                CCNT=KCNC(I)-CCNCL
0179                KOLT=KOZT-NKSD
0180                JKK=CLOG/DLV
0181                JMM=ZMCLE(I)/DM
0182                JCC=CCNT/DC
0183                JNN=KOLT/DV
0184                JVV=KOLT/DVV
0185                JLV=CLOG/DLVV
0186                JCLC=CCNT/DCC
0187                JKKK=KOLT/DVM
0188                JCCC=CCNT/DCM
0189                IF(JKKK.GE.NDIP)  JKKK=NDIP-1
0190                VMAR(JVV+1)=VMAR(JVV+1)+KCNT(I)
0191                VLMAR(JLV+1)=VLMAR(JLV+1)+KCNT(I)
0192                CMAR(JCLC+1)=CMAR(JCLC+1)+KCNT(I)
0193                CDIST(JKK+1,JCC+1)=CDIST(JKK+1,JCC+1)+KCNT(I)
0194                CSDT(JKKK+1,JCCC+1)=(SDT(JKKK+1,JCCC+1)+KOZT
0195                CLDST(JNN+1,JCC+1)=CLDST(JNN+1,JCC+1)+KCNT(I)
0196          90    MDST(JKK+1,JMM+1)=MDST(JKK+1,JMM+1)+KCNT(I)
0197                TVOL=KTOT
0198                DO 25 I=1,NMA
0199                VMAR(I)=VMAR(I)/TVOL
0200                VLMAR(I)=VLMAR(I)/TVOL
0201          25    CMAR(I)=CMAR(I)/TVOL
0202                KOB=NDIP
0203                IF (NDIM.GT.NDIP)  KOB=NDIM
0204                DO 95 I=1,KOB
0205                DO 95 J=1,KOB
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          95    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                ACON=C1/STOT
0217                SMVAC=S2C1/STOT
0218                SMCAV=S1C2/STOT
0219                CMAX=MKCNT*SDEK
0220                CRN=LNC*SDEK
```

28-32.6

```
0221                DMIN=(NKSC   )*SCEK
0222               WRITE(6,100) LMC,SCEK
0223               WRITE(6,88) DCM,DVM,DC,DM,DV,DVV,DCC,BLCC,SLCC,DLV,DLVV
0224                WRITE(6,87) NKCNT,DMAX,DMIN,CRM,CCNCM,CCNCL
0225                WRITE(6,87) L,ACS,SMV,TMV,CVC,SMVAC
0226                WRITE(6,87) NKSC,ACCN,SMC,TMC,SMCAV,STCT
0227                READ (5,7)  (CTP(I),I=1,20)
0228                WRITE (6,CTP) ((CLOST(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) ((DIST(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)  ((CSET(I,J),J=1,NDIP),I=1,NDIP)
0235                IF (NSPDA.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,ACS, SMV,CVC
0240                WRITE(6,87) L,CCNCL,CCNCM,SCEK,TVCL,STCT
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
```

SUBPROGRAMS CALLED

SYMBOL	LOCATION	SYMBOL	LOCATION	SYMBOL	LOCATION	SYMBOL	LOCATION	SYMBOL	LOCATION
IBCOM#	248	FCSTAP	24C	CORCT	25C	WRITE	254	ALOG	258

SCALAR MAP

SYMBOL	LOCATION	SYMBOL	LOCATION	SYMBOL	LOCATION	SYMBOL	LOCATION	SYMBOL	LOCATION
FSF	28C	MCD	290	NSSF	294	NLEV	298	NCS	29C
NDIM	2AC	NCO	2A4	NORG	2A8	NMA	2AC	BB	2B0
FRT	2B4	FAC	2B8	FREQ	2BC	SDR	2CC	NSPDA	2C4
NSTDA	2C8	NDIP	2CC	IPC	2D0	DRM	2D4	NSSBS	2D8
LT	2DC	KOUNT	2EC	JK	2E4	MCLES	2E8	MKONT	2EC
NCG	2F0	CONCM	2F4	CONCL	2F8	ZMMCL	2FC	I	300
BASE	304	NOR	308	L	30C	NKSC	310	SCEK	314
INBR	318	IBASE	31C	KLEV	320	FCCN	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	SCAD	360	SCAD2	364
SCAD3	368	CONC2	36C	CCAD	370	CCAD2	374	I1	378
SUM	37C	IE	380	LMC	384	KGB	388	J	38C
DCM	390	DVM	394	DC	398	DM	39C	DV	3A0
DVV	3A4	DCC	3A8	ELCC	3AC	SLCG	3BC	DLV	3B4
DLVV	3B8	KTOT	3BC	KCZT	3C0	CLCG	3C4	CONT	3C8
KOLT	3CC	JKK	3D0	JMM	3D4	JCC	3D8	JMA	3DC
JVV	3EC	JLV	3E4	JCLC	3E8	JKKK	3EC	JCCC	3FC
TVOL	3F4	AES	3F8	SMV	3FC	TMV	400	CVC	4C4
SMC	4C8	TMC	40C	ACCM	410	SMVAC	414	SMCAV	418
DMAX	41C	DMIN	420	LEM	424	NBR	426		

ARRAY MAP

SYMBOL	LOCATION	SYMBOL	LOCATION	SYMBOL	LOCATION	SYMBOL	LOCATION	SYMBOL	LOCATION
A	428	KONT	79BC	ZMOLE	D77C	DIST	1353C	MDST	1453C
LMOL	1553C	CTP	155DC	KCNC	1562C	CDIST	1F26C	FCONC	2026C
CLOST	20274	VMAR	21274	VLMAR	212EC	CMAR	21364	OPTM	213DC
CSOT	2142C	OPTA	2242C	OPTB	2247C				

FORMAT STATEMENT MAP

SYMBOL	LOCATION	SYMBOL	LOCATION	SYMBOL	LOCATION	SYMBOL	LOCATION	SYMBOL	LOCATION
572	224CC	571	224D7	52	224E0	17	224F5	717	2250C
83	225C6	7	225CC	82	22512	87	22519	5	22524
88	2252F	100	22536						

TOTAL MEMORY REQUIREMENTS 0242C2 BYTES
EXECUTION TERMINATED

28-32.8

```
$RUN *STATUS
EXECUTION BEGINS

STATUS OF CORL AT LAST SIGNOFF          USED       MAXIMUM     REMAINING

CUMULATIVE CHARGE          ($)          159.91      200.00       140.09
CURRENT DISK SPACE         (PAGES)            0          20           20
CUMULATIVE DISK STORAGE    (PG-DA)         1.05
CUMULATIVE MEMORY--CPU     (PG-HR)        15.76
CUMULATIVE MEMORY--WAIT    (PG-HR)        85.84
CUMULATIVE CPU TIME        (HR)            0.37
CUMULATIVE LINES PRINTED                   9320
CUMULATIVE PAGES PRINTED                    245
CUMULATIVE CARDS PUNCHED                   1854
CUMULATIVE CARDS READ                      3663
BATCH SESSIONS                               13
EXPIRATION DATE AND TIME:  05-05-70  24:00.00

EXECUTION TERMINATED
```

```
$RUN *MOUNT;PAR=G284 CN 7TP,PNAME=*CT*,MODE=2CF,SIZE=3C1CC,'CDATA',RING CLT
EXECUTION BEGINS
G284 CN 7TP,PNAME=*CT*,MODE=2CF,SIZE=3C1CC,'CDATA',RING CLT

*CT*: MOUNTED ON TCC0
EXECUTION TERMINATED
```

28-32.10

```
$RUN  -OBJ+*SOURCE* *SINK*; 2=*DT* 5=*SOURCE* 6=*SINK* 4=*PUNCH* 7=STDFG

 ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ..

 ENTRY = 503000  SIZE = 027ACC

NAME      VALUE  T RF     NAME      VALUE  T RF     NAME      VALUE  T RF

GETSPACE 2CD1FA *        FRESPAC  20D4EE *        ERROR#   214B56 *
MTS#     214B72 *        CANREPLY 2171C2 *        CDINFC   217216 *
SETICERR 217444 *        PCINT    21777E *        SCARCS#  217D4C *
SPRINT#  217D5E *        SPRINT   217D5E *        SPUNCH#  217D7C *
SERCOM#  217D82 *        READ#    217ECC *        READ     217E0C *
WRITE#   217E1C *        WRITE    217E1C *        LCSYMBOL 21E9CE *
CORCT    5CCCD8  5C00D8 PCSTAP   5CC24C  5CCCC8 REWIND#  5CC31C *5CC31C
IFCSLOG  5C04AC *5C04AC ALOG     5CC4BC *        MAIN     503CCC  503CCC
FICCS#   5272C8 *5272C8 IECOM#   528CC0 *528CCC ACCON#   52ACCC *52ACCC
FCVZD    52A154 *        FCVAD    52A1FA *        FCVLC    52A282 *
FCVIC    52A5AE *        FCVED    52AA9A *        FCVCC    52ACAC *

 ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ..

EXECUTION BEGINS
01C0 0C00 0000 0353 0353 0353 0360 0363 0377 0384 037F 0374 0373 0369 036C 0367 0364 0374 037C 036F 037E 0374 0357 0355 034F
037A 0374 037C 036F 0372 0372 0361 0357 0362 0376 036C 0367 035E 035D 0373 0389 03E5 0379 0373 0380 0386 0377 0367 0364 0369
        4       48C      3CCCE       868          1          C  C.47CCE C3  C.258CE C3
0200 0C00 0000 037B 036F 0371 0372 037E 0372 036C 0357 0363 0372 036F 0362 035A 0351 036B 0388 037B 036F 036D 036C 037E 0362
0387 0371 0367 036F 0371 0377 0377 0354 035C 036E 036C 036E 0360 0354 0357 0373 037B 036A 0367 037C 0374 0380 0371 034E 0357
        6       48C      3CCCE       875          2          0  0.472CE C3  C.258CE C3
03C0 0000 0000 038E 037C 0360 037D 0380 036F 0377 0367 034F 0364 0376 036D 0367 0357 035F 0379 0378 0382 037E 0361 0376 0384
037E 0377 0364 036A 037C 0380 0370 0359 035E 0367 0374 036F 0363 035B 035B 037C 0384 036A 0367 0377 0373 0377 0372 0352 0352
        7       48C      3CCCE       874          3          C  0.511CE C3  0.258CE C3
04C0 0000 0000 0380 0377 0373 037A 038C 0364 037C 035E 0367 037C 0376 036B 0353 0356 036B 0380 0377 0364 0370 0377 0379 037C
0377 0377 0383 0380 0384 0378 0360 035F 036D 037F 0373 036B 0362 0367 0383 0386 037A 0372 0376 0387 0383 036E 036C 036A 036F
       10       581      3CCCE       875          4          C  C.511CE C3  C.258CE 03
05C0 0000 0000 0370 0377 037E 0385 037B 036A 035F 0364 0371 036F 036A 035A 035B 037C 038A 037F 036F 0373 037F 038C 036B 0359
0362 0364 035C 0347 0355 0375 0377 036B 0363 0366 0371 0377 0367 0357 0355 0363 0367 036B 0363 0356 0364 0383 037F 037A 0372
       25       86C      30006       871          5          C  C.646CE C3  C.2580E 03
06CC 0C0C 0000 0373 036A 0366 035A 0364 037E 0386 037D 036B 036F 037E 0379 0372 0362 0367 0372 0375 036F 0361 035E 0364 0386
0371 0372 037C 0366 0351 035E 0364 036E 0367 0362 0354 0364 0387 0383 0377 0379 0379 0379 037B 0368 0357 036A 0372 0372 036F
       30       86C      30006       873          6          C  C.646CE C3  C.258CE 03
07CC CCCC C000 0372 0378 037C 0370 0359 0366 037D 036E 036E 035C 0352 0362 0383 0382 037B 0371 0372 036F 0373 035E 0354 0358
037E 037E 036D 035E 0367 0378 0372 0374 0366 035D 036C 0388 037C 037A 037E 0380 038C 0382 036C 0363 0373 037F 037E 036F 036C
       31       86C      30006       875          7          C  C.646CE C3  C.258CE C3
08CC CCCC C000 037B 037B 0367 035B 0367 036F 0373 0366 035A 035E 0371 0387 0376 036D 036F 0377 037C 0375 035E 035B 036A 0372
0157 0151 0143 0136 0137 014B 0151 0146 0147 012F 0152 016B 015B 0146 014E 0154 014B 0157 0130 0138 013B 014F 014C 0146 0133
       49      1234      30006       868          8        341  C.656CE C3  C.258CE C3
09C0 0000 0000 0367 0357 0344 034F 0357 035E 0357 0352 034C 0357 036F 0367 035E 035E 035E 036B 0367 0352 0347 0357 035C 0363
036F 0357 035A 0367 0368 036F 0363 0354 035E 037F 0383 0374 036B 0373 037B 0377 0372 0359 0358 0367 0363 036A 0365 034F 0361
12     87      1234      30006       871          9          C  C.656CE C3  C.258CE C3
11 0CC1 CCCC 0CCC 035D 0353 0357 036B 0367 036C 0359 034F 0364 037A 037B 0368 036A 0368 036B 0366 0357 0351 035D 0367 0365 0362
10 0362 0376 0373 036F 0361 0359 036B 0382 0387 0378 037C 0374 037A 0379 0367 0357 035E 036C 0376 0369 0360 034F 036C 0383 0381
 9     89      1234      30006       871         10          0  C.656CE C3  C.258CE C3
 8 01C1 CCCC CCCC 035F 036E 036F 036C 0358 0353 035A 037F 0375 0370 0367 0371 0372 0373 035E 0355 035E 036B 036F 036C 0357 034B
 7 0143 0146 0133 0135 0145 016A 015F 0152 014A 0143 0153 014F 013A 012A 012F 013E 0148 0143 0131 012C 0147 015A 0157 0147 014C
 6     89      1234      30006       866         11       2562  0.656CE C3  C.258CE C3
 5 02C1 0000 000C 034F 034E 033F 033B 0347 0363 0363 0356 0352 035A 035F 0357 0347 033E 0347 0357 034E 0335 032F 0337 034F 036F
 4 037A 0372 0377 038F 039A 038A 0386 038E 038C 0374 035F 0345 0346 0357 035E 0357 0352 0348 034E 0367 0367 035B 035F 035C 036B
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014C 016D 0177 015E 015E 0164 0167 016F 0165 0150 014D 0156 015F 015B 012E 010B 010F 011B 0184 028F 0336 0350 036B 036B 0361
     226        2562       30006       864      13       0  0.6560E 03  0.2580E 03
04C1 0000 0000 0159 0174 0167 0163 015A 0167 0166 016C 014F 014A 0153 0163 0162 015A 011F 0115 0137 0176 019F 0186 014F 012F
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     464        2562       30006       860      15       5  0.6560E 03  0.2580E 03
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     510        2562       30006       864      16       0  0.6560E 03  0.2580E 03
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     531        2562       30006       857      17       0  0.6560E 03  0.2580E 03
08C1 0000 0000 0361 0361 0353 0344 0347 0356 0354 0354 0346 033E 0357 0368 0361 0358 0352 0356 0352 0356 0345 033D 0349 0355
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88-32.12

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         1165          2562        30006          855           33             0   0.6560E 03   0.2580E 03
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         1242          2562        30006          853           34            19   0.6560E 03   0.2580E 03
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         1466          2562        30006          871           38             0   0.6560E 03   0.2580E 03
0903 0000 0000 0351 035E 0367 036F 0365 035C 0351 0360 0370 0377 0369 0367 036E 0371 0372 0364 034F 0356 0367 0367 0367 0367
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         1580          2562        30006          857           42             0   0.6560E 03   0.2580E 03
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         1635          2562        30006          855           43             0   0.6560E 03   0.2580E 03
0404 0000 0000 0156 015E 0157 0160 0147 0137 013F 014D 014E 0157 013F 013C 014F 0167 0167 0156 0151 0154 015F 0157 0149 012F
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         1713          2562        30006          852           44            98   0.6560E 03   0.2580E 03
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         1801          2562        30006          847           45            25   0.6560E 03   0.2580E 03
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0137 0144 0160 0167 0164 0152 013E 0131 014E 0149 01A5 02B3 0336 034C 035E 0356 0346 0351 035B 035C 035B 034E 0347 034E 0376
         1923          2562        30006          846           46             0   0.6560E 03   0.2580E 03
0704 0000 0000 035A 0358 0364 036E 0366 035B 034D 0353 036C 0377 036E 0364 036B 0364 036C 035D 034C 0342 034C 036C 035E 034F
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         1958          2562        30006          866           47             0   0.6560E 03   0.2580E 03
              1016   0.280533E-02

.3980E 020.1107E 030.3980E 020.7218E 050.2542E 030.1271E 030.1990E 020.7849E 010.2996E 010.4853E 000.2427E 00
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              1958   0.757691E 00   0.159915E 01   0.673984E 01   0.498325E 00   0.108549E 01
                20   0.639470E 00   0.421819E 00   0.284919E 00   0.337044E 00   0.553968E 03
0.0009518 0.0                0.0090724 0.0230758 0.0187117 0.0895237 0.4864695 0.0380006 0.0175524 0.0204837
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0.0                0.0                0.0                0.0035945 0.0062980 0.0                0.0327911 0.0097406 0.0                0.0
0.0                0.0                0.0                0.0                0.0041210 0.0                0.0283967 0.0043539 0.0052146 0.0
0.0                0.0                0.0                0.0                0.0                0.0                0.0174005 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                0.0                0.0
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28-32,13

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C.C	C.C	C.C	C.C	C.C	C.C	C.C	C.C129706	C.C	C.C
C.C	C.C	C.0002329	C.0017821	C.0024908	C.0171069	C.0292219	C.0011290	C.0017112	C.C
C.C	C.C	C.0007493	C.0022833	C.0022276	C.0196898	C.0471135	C.0027035	C.0025516	C.0012555
C.C	C.C	C.0033059	C.0046374	C.0049108	C.0212937	C.1131412	C.0059786	C.0023238	C.0043286
C.C	C.C	C.0013973	C.0030575	C.0055285	C.0204938	C.1425707	C.0053057	C.0064094	C.0067435
C.C009518	C.C	C.0033869	C.0063081	C.0023795	C.0085458	C.1184419	C.0113151	C.0033566	C.0043489
C.0014429	C.C	C.0015745	C.0050078	C.0025870	C.0054323	C.0946826	C.0155222	C.0043134	C.0088496
C.0024301	C.C	C.C	C.C	C.0067536	C.0091382	C.0653645	C.0173499	C.0021618	C.0088800
C.C	C.C	C.C	C.0035945	C.0074776	C.C	C.0317026	C.0081408	C.C	C.C
C.C	C.C	C.C	C.C	C.C	C.C	C.0227000	C.C	C.0052146	C.C
C.C	C.C	C.C	C.C	C.C	C.C	C.C	C.0129706	C.C	C.C
C.0536748	C.C	C.C	C.C	C.C	C.C	C.C	C.C	C.C	C.C
C.0785731	C.C	C.C	C.C	C.C	C.C	C.C	C.C	C.C	C.C
C.1639201	C.C	C.C	C.C	C.C	C.C	C.C	C.C	C.C	C.C
C.1915068	C.C	C.C	C.C	C.C	C.C	C.C	C.C	C.C	C.C
C.1559768	C.0030579	C.C	C.C	C.C	C.C	C.C	C.C	C.C	C.C
C.0584134	C.0809981	C.C	C.C	C.C	C.C	C.C	C.C	C.C	C.C
C.0042982	C.0761430	C.0316368	C.C	C.C	C.C	C.C	C.C	C.C	C.C
C.C	C.0069511	C.0265134	C.0174511	C.C	C.C	C.C	C.C	C.C	C.C
C.C	C.C	C.C	C.0152995	C.0226151	C.C	C.C	C.C	C.C	C.0129706
C.C	C.C	C.C	C.C	C.C	C.C	C.C	C.C	C.C	C.0129706
C.5129985	C.1908436	C.1094910	C.0617852	C.0416663	C.0107380	C.0169044	C.0251819	C.0111531	C.0062474
C.C	C.C	C.C	C.C	C.C	C.C	C.C	C.C	C.C	C.0129706
C.0251009	C.0285739	C.0362591	C.0423141	C.0619371	C.1019830	C.0975532	C.0939536	C.0738446	C.0851901
C.0800160	C.0593956	C.0559783	C.0560998	C.0293434	C.0215722	C.0379146	C.C	C.C	C.0129706
C.0024301	C.0023947	C.C	C.C	C.C	C.0106469	C.0192788	C.0073915	C.0088749	C.0254806
C.0208583	C.0808412	C.3747563	C.3001828	C.0760316	C.0083838	C.0163525	C.0116898	C.0174613	C.0169449
C.C	C.C	C.0056854	C.0117607	C.0151577	C.0772011	C.3107840	C.0184130	C.0102520	C.0103178
C.0009518	C.C	C.0033869	C.0074574	C.0035540	C.0123226	C.1549596	C.0143274	C.0073004	C.0075687
C.0014429	C.C	C.0015745	C.0038578	C.0014125	C.0030376	C.0684578	C.0132136	C.0031136	C.0058322
C.C	C.C	C.C	C.C	C.0038122	C.0039843	C.0420002	C.0039692	C.0021618	C.0057006
C.0024301	C.C	C.C	C.C	C.C	C.0051538	C.0313887	C.0074270	C.C	C.0049888
C.C	C.C	C.C	C.C	C.0062980	C.C	C.0215114	C.0059537	C.C	C.C
C.C	C.C	C.C	C.0035945	C.C	C.C	C.0040147	C.0037869	C.C	C.C
C.C	C.C	C.C	C.C	C.0041210	C.C	C.0044147	C.0043539	C.C	C.C
C.C	C.C	C.C	C.C	C.C	C.C	C.0148084	C.C	C.C	C.C
C.C	C.C	C.C	C.C	C.C	C.C	C.0225594	C.0129706	C.0052146	C.C

1958 C.718726E C1 C.561066E-01 C.757691E CC C.159915E 01 0.498325E 0C

1958 C.258000E C3 C.656C0CE C3 C.28C533E-C2 C.197523E C6 C.553968E 03

482	485	499	507	515	517	519	519	522	526
541	555	564	568	574	581	582	594	600	605
608	613	622	627	663	710	748	753	814	860
872	922	987	1016	1019	1030	1067	1136	1234	2562

188	278	285	281	206	470	480	258	26	389	21	472	23	511	581	440	382	510	68	506
73	498	202	377	132	646	860	538	401	551	266	532	117	529	594	547	138	530	74	540
227	379	51	510	89	519	59	505	36	528	38	510	43	536	155	482	57	384	73	422
29	5291234		536	564	532	206	527	288	524	422	501	507	511	444	525	211	534	341	529
57	529	174	517	153	6321067		533	541	535	311	377	105	518	470	521	239	656	341	529
357	637	369	427	419	493	189	533	24	498	515	518	324	520	353	512	69	494	186	501
206	528	39	526	39	505	44	521	147	492	68	512	92	499	161	389	70	515	89	511
73	504	156	518	104	513	53	556	71	522	31	510	24	511	51	509	31	521	91	513
45	565	54	500	43	487	24	508	23	501	36	576	25	517	23	495	28	511	2562	539
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613	522	59	524	163	543	158	511	95	516	29	446	95	503	53	514	70	515	139	528
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165	512	104	503	137	509	190	638	129	524	76	486	42	513	365	515	45	502	112	523
236	525	212	498	60	543	89	544	22	510	287	532	64	505	154	531	65	524	113	497

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140	516	191	507	58	508	83	519	33	511	145	486	54	516	65	501	25	503	91	473
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52	384	228	502	105	523	112	516	40	505	412	518	53	539	58	511	106	501	71	518
87	507	190	502	124	520	139	508	27	514	145	508	59	504	83	509	199	384	61	537
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142	529	34	514	200	507	139	509	26	508	144	500	23	497	193	514	42	510	25	523
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79	495	78	488	34	504	29	512	26	528	29	484	44	483	51	487	42	461	39	469
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132	530	101	560	149	534	46	641	366	529	33	496	36	496	24	490	22	499	23	527
21	527	20	505	23	504	28	516	22	577	99	509	34	507	28	509	30	486	22	498
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608	518	21	485	20	448	22	491	36	486	1019	523	207	520	287	507	135	508	130	513
119	516	58	508	186	503	71	378	141	615	299	520	141	536	281	516	80	499	144	515
104	512	171	521	39	511	391	514	208	561	395	509	196	523	122	504	25	548	142	509
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107	514	41	497	20	493	382	646	72	528	109	508	218	482	42	390	104	538	66	514
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12 115	504	23	507	198	523	83	499	187	494	30	501	339	514	64	502	67	633	65	501
11 143	520	48	522	159	513	52	505	153	454	83	506	51	503	75	518	126	509	171	505
10 113	509	52	523	160	514	69	519	74	526	63	512	183	509	138	514	105	443	68	517
9 62	485	192	515	89	512	345	619	68	512	38	615	150	501	96	520	101	506	44	500
8 69	501	92	497	123	510	68	504	174	522	115	516	139	573	39	522	29	482	190	510
7 76	641	80	371	36	507	24	505	100	498	47	482	85	513	35	503	134	633	43	501
6 102	506	142	521	48	495	89	518	63	499	91	521	104	499	47	502	92	507	44	509
5 20	462	136	578	42	456	174	515	43	503	136	515	55	491	206	503	55	515	47	494
4 98	501	20	512	133	501	21	517	76	518	120	630	63	607	155	506	44	499	151	502
3																			

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66	518	24	509	61	507	122	470	127	438	58	508	237	614	209	495	139	516	103	493
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22	495	36	506	50	506	32	494	30	604	36	496	23	499	23	499	21	503	20	486
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75	492	30	500	35	514	35	504	60	515	24	505	22	495	21	466	70	498	43	493
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86	533	54	518	148	481	1016	498	189	506	221	508	218	529	178	523	214	521	213	547
122	520	79	465	248	541	55	530	126	524	28	481	59	501	748	542	389	518	165	508
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182	544	294	622	288	520	196	518	47	544	320	588	120	532	156	416	38	603	220	513
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76	544	53	631	87	520	103	522	94	527	65	373	96	538	146	514	85	378	95	495
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84	524	43	437	97	512	32	516	23	507	74	515	31	507	80	406	80	496	84	506

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	56	501	22	499	38	511	144	515	42	527	92	507	26	533	53	485	23	479	52	495
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	79	490	25	487	35	527	27	612	78	368	68	515	57	528	56	490	43	398	46	531
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	216	518	68	515	189	522	315	521	219	522	288	514	75	437	519	649	206	525	285	519
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	922	519	526	520	153	530	167	532	574	533	193	513	101	511	23	498	568	523	287	525
	171	506	240	528	96	523	107	487	243	508	34	500	605	526	80	500	130	511	73	516
	96	495	45	532	266	515	21	492	114	516	80	501	42	438	72	506	75	511	137	505
	134	510	62	528	50	488	37	452	33	503	43	524	29	498	22	472	814	454	441	523
	95	514	73	508	622	513	43	527	315	519	240	528	129	511	176	519	38	504	285	487
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	126	502	198	512	325	534	80	529	171	507	60	449	71	483	359	516	75	526	49	547
	150	503	26	504	24	424	663	426	22	510	141	514	243	519	30	497	227	519	28	502
	25	447	25	502	30	490	145	530	24	495	46	379	33	524	38	488	156	508	99	615
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	33	524	481	515	20	494	230	515	83	513	57	517	68	499	54	489	202	516	34	506
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	58	513	36	567	65	476	73	504	99	505	198	519	57	511	96	516	114	524	72	510
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	137	503	63	540	232	441	105	511	29	499	110	503	141	549	34	529	391	525	49	516
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	70	510	81	509	339	499	127	519	103	520	80	428	90	521	71	514	27	511	34	463
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	72	490	74	521	90	484	35	497	32	488	90	509	46	505	84	501	74	446	71	504
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	98	516	99	510	58	511	58	496	55	486	36	510	80	435	53	511	51	556	90	499
	26	495	78	530	42	461	72	530	35	502	62	504	75	365	22	513	39	523	69	538
	21	484	23	489	83	509	94	510	60	542	69	497	89	506	60	512	37	502	75	497
	80	501	109	522	30	548	32	495	29	487	42	504	39	368	63	499	24	374	127	530
	23	605	92	506	41	517	26	516	36	426	77	507	33	513	65	551	54	479	79	518
	70	612	42	383	22	484	82	505	62	507	52	523	33	514	27	503	67	494	42	374
	86	380	82	519	26	501	34	502	47	487	57	494	43	485	32	414	36	502	22	374
	36	468	76	485	80	514	24	506	49	487	99	501	45	514	57	508	52	545	24	594
12	25	510	27	497	21	498	27	494	66	509	49	509	52	503	38	495	103	510	92	513
11	56	552	22	445	56	490	47	486	36	497	33	493	24	468	55	494	57	526	31	496
10	39	606	39	507	22	503	116	454	29	501	20	488	51	500	27	498	48	513	33	449
9	69	503	50	512	51	488	62	374	22	458	31	558	42	493	33	495	39	534	29	503
8	44	522	84	507	32	534	28	390	20	502	20	459	44	600	45	493	56	508	50	487
7	32	471	73	509	28	471	44	495	67	494	41	425	29	535	33	520	47	508	29	486
6	46	439	29	507	63	500	115	511	27	458	27	481	25	489	30	497	24	488	29	484
5	38	514	20	501	27	508	24	497	25	520	33	383	42	519	89	519	31	486	20	466
4	41	489	79	531	23	447	21	468	25	502	22	511	28	498	31	496				
3																				

28-32.17

```
 STOP     0
EXECUTION TERMINATED
```

28-32.18

```
$SIGNOFF
```

28-32,19

--------017952----------017952----------017952----------017952----------017952----------017952-------

JOB NO. 017952 UNIVERSITY OF MICHIGAN TERMINAL SYSTEM (MODEL AN12C) 17:54.21 03-02-70

USER: CCRL
CHARGE NBR: 00RL

**** ON AT 17:54.23
**** OFF AT 18:05.32
**** ELAPSED TIME 669.43 SEC.
**** CPU TIME USED 112.116 SEC.
**** STORAGE USED 4817.726 PAGE-SEC.
**** CARDS READ 281
**** LINES PRINTED 786
**** PAGES PRINTED 20
**** CARDS PUNCHED 197
**** DRUM READS 444
**** APPROX. COST OF THIS RUN $13.75

**** FILE STORAGE 1 PG-HR. .00

**LAST SIGNON WAS: 16:12.15 03-02-70

28-32,20

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