

```

CON
C+*****
C
C      PROGRAM READUNME
C
C      ACRONYM: UNMERGE ELECTRON MODE TABLES.
C              ***      *
C
C      PURPOSE: To create an output list of un-merged LSF electron mode tables
C                into separate disk file.
C
C      OVERVIEW:
C
C      PARAMETERS: NONE
C
C      NOTES:
C
C      CALLING MODULE: NONE
C
C      SUBROUTINES CALLED: NONE
C
C      COMMONS USED: NONE
C
C      FILE USAGE:
C      FILE              LUN              DESCRIPTION
C      ----              ---              -
C      ELE1.LSF          KF                Input direct access thermal electron file.
C      FOR069.DAT        69                Error log file.
C
C      ENVIRONMENT: VAX/VMS
C
C      AUTHOR:   Joe Goosby
C      DATE:     6/93
C
C-*****
COFF
C
C      CHARACTER*11 NAM
C      INTEGER*4    TPER
C
C      DIMENSION ALTE(300), BCKE(300), EPM(17,300), FRSE(300), NDSE(300),
*              PHIE(300), SZAE(300), TE(300), TIME(300), TOTE(300)
C
C
C      C... Open input file.
C      OPEN(UNIT=KF, NAME='ELEOU', STATUS='UNKNOWN', ACCESS='DIRECT',
C      *      FORM='UNFORMATTED', RECL=29)
C      OPEN(UNIT=KF, NAME=NAM, STATUS='UNKNOWN', ACCESS='DIRECT',
C      *      FORM='UNFORMATTED', RECL=29)
C      OPEN(UNIT=KF, NAME='ELE1.LSF', STATUS='UNKNOWN', ACCESS='DIRECT',
*      FORM='UNFORMATTED', RECL=29)
C      IUS=0
C      I9=0
C      I=1
C      DO WHILE(IUS.EQ.0)

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      I9=I9+1
      READ(KF,REC=I9,IOSTAT=IUS) IORBT,TPER,KDAY,
*          NDSE(I),TIME(I),ALTE(I),SZAE(I),TOTE(I),TE(I),
*          PHIE(I),FRSE(I),BCKE(I),(EPM(K,I),K=1,17)
C          WRITE(69,3010) I9,IORBT,TPER,KDAY,NDSE(I),TIME(I),ALTE(I),
C          *          SZAE(I),TOTE(I),TE(I),
C          *          PHIE(I),FRSE(I),BCKE(I),(EPM(K,I),K=1,17)
      IF (IORBT.GT.1480) THEN
C          WRITE(6,'(I15,1X,I5)') I9,IORBT
          WRITE(69,3000) I9,IORBT,TIME(I),ALTE(I),SZAE(I)
      END IF
    END DO
    CLOSE (UNIT=KF)
1000 FORMAT(1X,' UNME: ORBIT ',I4,' EOF')
2000 FORMAT(1X,' UNME: ORBIT ',I4,1X,'THERMAL ELECTRON READ ERROR')
3000 FORMAT(1X,I10,1X,I4,1X,F12.3,1X,F13.1,1X,F7.3)
3010 FORMAT(1X,I10,1X,I4,1X,I10,1X,I4,1X,I8,1X,F12.3,1X,F13.1,1X,F7.3
*       / 1X,2F13.3,1X,F8.3,1X,2E15.3
*       / 1X,F7.3,1X,F7.3,1X,4E15.3
*       / 1X,5E15.3
*       / 1X,3E15.3,3F12.3)
C
      END

```