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CON
C+*****
C
C      PROGRAM MEDMAP
C
C      ACRONYM:  MEDIAN MAP
C                ***      ***
C
C      PURPOSE:  To audit the split database files, ELE1.LSF, ION1.LSF,
C                PHE1.LSF, PHE2.LSF, and create link list files ELE1.MAP,
C                ION1.MAP, PHE1.MAP, PHE1.MAP, and map file lists in ASCII.
C
C      OVERVIEW:
C
C      PARAMETERS:
C      NAME          DIM      TYPE  I/O    DESCRIPTION
C      ----          ---      ----  ---    -
C
C      NOTES:
C
C      CALLING MODULE:
C
C      SUBROUTINES CALLED:
C      NAME          DESCRIPTION
C      ----          -
C
C      COMMONS USED:
C      NAME          DESCRIPTION
C      ----          -
C
C      FILE USAGE:
C      FILE          LUN      DESCRIPTION
C      ----          ---      -
C
C      ENVIRONMENT:  VAX/VMS
C
C      AUTHOR:      JOE GOOSBY
C      DATE:        7/93
C
C-*****
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C      LOGICAL*1  ASCII, EMODE, IMODE, PMODE
C
C      EMODE=.FALSE.
C      IMODE=.FALSE.
C      PMODE=.TRUE.
C      ASCII=.TRUE.
C      MAP=.TRUE.
C      LF=7
C      MF=8
C      NF=9
C
C      IF (EMODE) THEN
C..... Open direct access input database file.
C      OPEN (UNIT=LF, NAME='ELE1.LSF', STATUS='UNKNOWN',

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*           ACCESS='DIRECT',FORM='UNFORMATTED',RECL=29)
C..... Open link list to direct access file (start,stop rec #'s).
      IF (MAP) THEN
        OPEN (UNIT=MF,NAME='ELE1.MAP',STATUS='NEW',
*           ACCESS='DIRECT',FORM='UNFORMATTED',RECL=2)
        END IF
C..... Open link list disk ASCII list file (orbit #,start rec #,stop rec #).
      IF (ASCII) THEN
        OPEN (UNIT=NF,NAME='ELE1.LIS',STATUS='NEW',FORM='FORMATTED')
        END IF
C..... Create a link list file for EMODE.
      CALL MEDFLY (LF,MF,NF,ASCII,MAP)
      EMODE=.FALSE.
           CLOSE (UNIT=LF)
      IF (MAP)   CLOSE (UNIT=MF)
      IF (ASCII) CLOSE (UNIT=NF)
      END IF
C
C
C
      IF (IMODE) THEN
C..... Open direct access input database file (start,stop rec #'s).
      OPEN (UNIT=LF,NAME='ION1.LSF',STATUS='UNKNOWN',
*         ACCESS='DIRECT',FORM='UNFORMATTED',RECL=37)
C..... Open link list to direct access file (start,stop rec #'s).
      IF (MAP) THEN
        OPEN (UNIT=MF,NAME='ION1.MAP',STATUS='NEW',
*         ACCESS='DIRECT',FORM='UNFORMATTED',RECL=2)
        END IF
C..... Open link list disk ASCII list file (orbit #,start rec #,stop rec #).
      IF (ASCII) THEN
        OPEN (UNIT=NF,NAME='ION1.LIS',STATUS='NEW',FORM='FORMATTED')
        END IF
C..... Create a link list file for IMODE.
      CALL MEDFLY (LF,MF,NF,ASCII,MAP)
      IMODE=.FALSE.
           CLOSE (UNIT=LF)
      IF (MAP)   CLOSE (UNIT=MF)
      IF (ASCII) CLOSE (UNIT=NF)
      END IF
C
C
C
      IF (PMODE) THEN
C..... Open direct access input database file.
C      OPEN (UNIT=LF,NAME='$1$DUA0:[RDR]PHE1.LSF',STATUS='UNKNOWN',
C      OPEN (UNIT=LF,NAME='PHE1.LSF',STATUS='UNKNOWN',
C      *         ACCESS='DIRECT',FORM='UNFORMATTED',RECL=42)
C      OPEN (UNIT=LF,NAME='PHE2.LSF',STATUS='UNKNOWN',
C      OPEN (UNIT=LF,NAME='PHE2.LSF',STATUS='UNKNOWN',
C      *         ACCESS='DIRECT',FORM='UNFORMATTED',RECL=42)
C      OPEN (UNIT=LF,NAME='P1.LSF',STATUS='UNKNOWN',
*         ACCESS='DIRECT',FORM='UNFORMATTED',RECL=42)
C..... Open link list to direct access file.
      IF (MAP) THEN
C      OPEN (UNIT=MF,NAME='PHE1.MAP',STATUS='NEW',
C      *         ACCESS='DIRECT',FORM='UNFORMATTED',RECL=2)

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C      OPEN (UNIT=MF,NAME='PHE2.MAP',STATUS='NEW',
C      *      ACCESS='DIRECT',FORM='UNFORMATTED',RECL=2)
      OPEN (UNIT=MF,NAME='P1.MAP',STATUS='NEW',
      *      ACCESS='DIRECT',FORM='UNFORMATTED',RECL=2)
      END IF
C..... Open link list disk ASCII list file (orbit #,start rec #,stop rec #).
      IF (ASCII) THEN
C      OPEN (UNIT=NF,NAME='PHE1.LIS',STATUS='NEW',FORM='FORMATTED')
C      OPEN (UNIT=NF,NAME='PHE2.LIS',STATUS='NEW',FORM='FORMATTED')
      OPEN (UNIT=NF,NAME='P1.LIS',STATUS='NEW',FORM='FORMATTED')
      END IF
C
C..... Create a link list file for PMODE.
      CALL MEDFLY (LF,MF,NF,ASCII,MAP)
      PMODE=.FALSE.
      CLOSE (UNIT=LF)
      IF (MAP) CLOSE (UNIT=MF)
      IF (ASCII) CLOSE (UNIT=NF)
      END IF
C
C
C
      END

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