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PROGRAM READUNMIU

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ACRONYM: READ UNMERGE ION UNCERTAINTY TABLES.

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PURPOSE: To read un-merge LSF ion mode ion uncertainty tables.

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OVERVIEW:

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PARAMETERS:NONE

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NAME	DIM	TYPE	I/O	DESCRIPTION
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NOTES:

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CALLING MODULE: NONE

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SUBROUTINES CALLED: NONE

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COMMONS USED: NONE

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NAME	DESCRIPTION
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FILE USAGE:

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FILE	LUN	DESCRIPTION
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IUN1.LSF JF Input LSF tables file.

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IUN2.LSF KF Output un-merged ion uncertainties file.

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FOR069.DAT 69 Error log file.

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ENVIRONMENT: VAX/VMS

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AUTHOR: Joe Goosby

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DATE: 6/93

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REAL*4	NO
INTEGER*4	TPER

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DIMENSION ALTI(300),CSQ(300),EPM(17,300),NDSI(300),SCO2(300),
 * SH(300),SHE(300),SNO(300),SO(300),SO2(300),SPHII(300),
 * STI(300),STOTI(300),SVELI(300),SZAI(300),TIMI(300)

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JF=9
KF=10

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C... Open output file.

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OPEN(UNIT=KF,NAME=NAM,STATUS='NEW',FORM='UNFORMATTED')

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C      OPEN(UNIT=KF,NAME=' IUNOU ',STATUS='NEW',FORM='UNFORMATTED')
      OPEN(UNIT=JF,NAME=' ION1.LSF',STATUS='OLD',ACCESS='DIRECT',
*        FORM='UNFORMATTED',RECL=37)
C      OPEN(UNIT=KF,NAME=' ION2.LSF',STATUS='NEW',ACCESS='DIRECT',
C      *        FORM='UNFORMATTED',RECL=37)
C
      I=1
      IOS=0
      I9=0
      DO WHILE(IOS.EQ.0)
        I9=I9+1
        READ(JF,REC=I9,IOSTAT=IOS) IORBT,TPER,KDAY,NDSI(I),
*        TIMI(I),ALTI(I),SZAI(I),STOTI(I),SH(I),SHE(I),SO(I),
*        SNO(I),SO2(I),SCO2(I),SVELI(I),STI(I),SPHII(I),CSQ(I),
*        ZERO,ZERO,(EPM(K,I),K=1,17)
C      IF (IOS.NE.0) GOTO 10
C      WRITE(KF,REC=I9,IOSTAT=IOW) IORBT,TPER,KDAY,NDSI(I),
C      *        TIMI(I),ALTI(I),SZAI(I),STOTI(I),SH(I),SHE(I),SO(I),
C      *        SNO(I),SO2(I),SCO2(I),SVELI(I),STI(I),SPHII(I),CSQ(I),
C      *        ZERO,ZERO,(EPM(K,I),K=1,17)
C      WRITE(6,'(I15,1X,I5)') I9,IORBT
C      WRITE(6,3000) I9,IORBT,TIMI(I),ALTI(I),SZAI(I)
C      END IF
      END DO
C
10     CONTINUE
      CLOSE (UNIT=JF)
      CLOSE (UNIT=KF)
      IF (IOS.EQ.-1) WRITE(6,4000) IORBIT
      IF (IOS.GT.0) WRITE(6,5000) IORBIT
C
1000  FORMAT(1X,' UNMI: ORBIT ',I4,' EOF')
2000  FORMAT(1X,' UNMI: ORBIT ',I4,1X,' ION READ ERROR')
3000  FORMAT(1X,I10,1X,I4,1X,F12.3,1X,F13.1,1X,F7.3)
4000  FORMAT(1X,' UNMIU: ORBIT ',I4,' EOF')
5000  FORMAT(1X,' UNMIU: ORBIT ',I4,1X,' ION UNCERTAINTY READ ERROR')
C
      END

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