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PROGRAM READUNMI

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ACRONYM: READ UNMERGED ION MODE TABLES.

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PURPOSE: To read un-merged LSF ion mode tables & do what you please.

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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: UNMERL

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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 |
|-------------|-----|---------------------------|
| ---- | --- | ----- |
| ION####.LSF | KF | Input un-merged ion file. |
| 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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COFF

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CHARACTER*8 TLSF
CHARACTER*9 DLSF
CHARACTER*11 NAM
REAL*4 NO
INTEGER*4 TPER

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DIMENSION ALPHA (300), ALTI (300), BCKI (300), CO2 (300), CSQ (300),
* EPM (17, 300), FRSI (300), H (300), HE (300), NDSI (300),
* NO (300), O (300), O2 (300), PHII (300), SIGV (300), SZAI (300),
* TI (300), TIMI (300), TOTI (300), VELI (300)

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C... Open output file.

OPEN (UNIT=KF, NAME=' ION1.LSF', STATUS='UNKNOWN', ACCESS='DIRECT',

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*      FORM='UNFORMATTED',RECL=37)
C      OPEN (UNIT=KF,NAME='IONOU',STATUS='UNKNOWN',ACCESS='DIRECT',
C      *      FORM='UNFORMATTED',RECL=37)
C      OPEN (UNIT=KF,NAME=NAM,STATUS='UNKNOWN',ACCESS='DIRECT',
C      *      FORM='UNFORMATTED',RECL=37)
IUS=0
I9=0
I=1
DO WHILE (IUS.EQ.0)
  I9=I9+1
  READ (KF,REC=I9,IOSTAT=IUS) IORBT,TPER,KDAY,NDSI (I),
*      TIMI (I),ALTI (I),SZAI (I),TOTI (I),H (I),HE (I),O (I),
*      NO (I),O2 (I),CO2 (I),VELI (I),TI (I),PHII (I),CSQ (I),
*      FRSI (I),BCKI (I), (EPM(K,I),K=1,17)
C      IF (IORBT.GT.1480) THEN
C      WRITE (6,'(I15,1X,I5)') I9,IORBT
C      WRITE (69,3000) I9,IORBT,TIMI (I),ALTI (I),SZAI (I)
C      END IF
END DO
CLOSE (UNIT=KF)
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)
C
END

```