

## ADAS Subroutine d9wr11

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      SUBROUTINE D9WR11( IUNIT  , DSNINC , DSNMTR , ELEMT  ,
&                      UID     , DATE   , IZ0    ,
&                      NDLINE  , NLINE  ,
&                      TITL   , IZION  , CIMET   ,
&                      NTDIM  , NDDIM  , ITMAX  , IDMAX  ,
&                      TEV    , DENS   ,
&                      GCF
&                      )
```

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C

C \*\*\*\*\* FORTRAN77 SUBROUTINE: D9WR11 \*\*\*\*\*

C  
C PURPOSE: TO OUTPUT DATA TO GCF PASSING FILE.

C  
C CALLING PROGRAM: ADAS409

C  
C  
C SUBROUTINE:

C  
C INPUT : (I\*4) IUNIT = OUTPUT UNIT NUMBER FOR RESULTS  
C INPUT : (C\*80) DSNINC = INPUT SCRIPT DATA SET NAME  
C INPUT : (C\*80) DSNMTR = INPUT ACD MASTER FILE NAME  
C INPUT : (C\*2) ELEMT = ELEMENT SYMBOL.  
C  
C INPUT : (C\*6) UID = USER IDENTIFIER  
C INPUT : (C\*8) DATE = CURRENT DATE  
C INPUT : (I\*4) IZ0 = NUCLEAR CHARGE  
C  
C INPUT : (I\*4) NDLINE = MAXIMUM NUMBER OF SPECTRUM LINES  
C INPUT : (I\*4) NLINE = NUMBER OF SPECTRUM LINES  
C INPUT : (C\*12) TITL() = TITLE FOR 1ST COMPONENT OF LINE  
C INPUT : (I\*4) IZION() = ION CHARGE FOR 1ST COMPONENT OF LINE  
C INPUT : (C\*1) CIMET() = +/- SHIFT OF ION CHARGE - 1ST COMPONENT  
C  
C INPUT : (I\*4) NTDIM = MAXIMUM NUMBER OF INPUT TEMPERATURES  
C INPUT : (I\*4) NDDIM = MAXIMUM NUMBER OF INPUT DENSITIES  
C INPUT : (I\*4) ITMAX = NUMBER OF INPUT TEMPERATURES  
C INPUT : (I\*4) IDMAX = NUMBER OF INPUT DENSITIES  
C INPUT : (R\*8) TEV() = ELECTRON TEMPERATURES (UNITS: EV)  
C INPUT : (R\*8) DENS() = ELECTRON DENSITIES (UNITS: CM-3)  
C  
C INPUT : (R\*4) GCF(,,) = G(TE) FUNCTION (CM3 S-1)  
C 1ST DIM: TEMPERATURE INDEX  
C 2ND DIM: DENSITY INDEX  
C 3RD DIM: LINE INDEX  
C  
C (I\*4) I = GENERAL USE  
C (I\*4) J = GENERAL USE  
C (I\*4) K = GENERAL USE  
C (I\*4) L = GENERAL USE  
C (I\*4) I1 = GENERAL USE

C (I\*4) I2 = GENERAL USE  
C (I\*4) IT = GENERAL USE  
C (C\*80)CLINE = GENERAL USE

C  
C  
C ROUTINES: NONE

C  
C AUTHOR: Alessandro Lanzafame  
C  
C DATE: 13th December 1995  
C

C-----  
C  
C VERSION: 1.1 DATE: 12-03-98  
C MODIFIED: RICHARD MARTIN  
C - PUT UNDER SCCS CONTROL  
C

C VERSION: 1.2 DATE: 20-11-98  
C MODIFIED: RICHARD MARTIN & MARTIN O'MULLANE  
C - REMOVED SEARCH FOR BRACKETS IN DSNINC AND INITIAL STRING  
C AS STRING = ' '  
C

C-----  
CHARACTER CIMET (NLINE)  
CHARACTER\*8 DATE  
CHARACTER\*80 DSNINC, DSNMTR  
CHARACTER\*2 ELEMT  
CHARACTER\*12 TITL (NLINE)  
CHARACTER\*80 UID  
INTEGER IDMAX, ITMAX, IUNIT, IZ0  
INTEGER IZION (NLINE), NDDIM, NDLINE  
INTEGER NLINE, NTDIM  
REAL\*8 DENS (NDDIM), GCF (NTDIM, NDDIM, NDLINE)  
REAL\*8 TEV (NTDIM)