

## ADAS Subroutine ccintp

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SUBROUTINE CCINTP ( ZDATA , YDATA , XDATA , SRAY ,
&
& ITREF , IREF , INREF ,
& TVAL , MAXEB , MAXNE , MAXTE ,
& EBRAY , NERAY , BMSTOP , BMEMIS ,
& BMDENS , IECOUNT , INCOUNT ,
& F1 , NN , AVALUE , LEVEL ,
& NLEVEL , IEA , INA , ITA
&
)

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C-----

C  
C \*\*\*\*\* FORTRAN77 SUBROUTINE: CCDATA \*\*\*\*\*

C PURPOSE: TO INTERPOLATE BETWEEN THE EFFECTIVE STOPPING  
C OR EMISSION COEFFICIENTS.

C CALLING PROGRAM: ADAS312

C SUBROUTINE:

C INPUT : (R\*8) ZDATA( , ) =  
C INPUT : (R\*8) YDATA( ) =  
C INPUT : (R\*8) XDATA( ) =  
C INPUT : (R\*8) SRAY( , , ) =  
C INPUT : (I\*4) ITREF =  
C INPUT : (I\*4) IREF =  
C INPUT : (I\*4) INREF =  
C INPUT : (I\*4) TVAL =  
C INPUT : (I\*4) MAXEB =  
C INPUT : (I\*4) MAXNE = MAXIMUM NUMBER OF DENSITIES  
C INPUT : (I\*4) MAXTE =  
C INPUT : (R\*8) EBRAY( ) =  
C INPUT : (R\*8) NERAY( ) =  
C INPUT : (I\*4) BMSTOP =  
C INPUT : (I\*4) BMEMIS =  
C INPUT : (I\*4) BMDENS =  
C INPUT : (I\*4) IECOUNT =  
C INPUT : (I\*4) INCOUNT =  
C INPUT : (R\*8) F1( , , , ) =  
C INPUT : (R\*8) NN( , , , ) =  
C INPUT : (R\*8) AVALUE =  
C INPUT : (I\*4) LEVEL =  
C INPUT : (I\*4) NLEVEL =  
C INPUT : (I\*4) IEA( ) =  
C INPUT : (I\*4) INA( ) =  
C INPUT : (I\*4) ITA( ) =

C  
C (I\*4) I = GENERAL INTEGER VARIABLE  
C (I\*4) J = GENERAL INTEGER VARIABLE

C ROUTINES:

ROUTINE	SOURCE	BRIEF DESCRIPTION
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C -----
C I4UNIT      ADAS      FETCH UNIT NUMBER FOR OUTPUT OF MESSAGES
C
C
C
C AUTHOR:    HARVEY ANDERSON, UNIVERSITY OF STRATHCLYDE/JET
C           JA8.08
C           TEL. 0141-553-4196
C
C
C DATE:      16/05/97
C
C UNIX-IDL PORT: H.P.SUMMERS
C
C VERSION: 1.1 DATE: 10-07-97
C MODIFIED: HUGH SUMMERS, UNIVERSITY OF STRATHCLYDE
C           - PUT UNDER S.C.C.S. CONTROL
C
C VERSION: 1.2                      DATE: 05-02-03
C MODIFIED: COSTANZA MAGGI, IPP GARCHING
C           - EXTENDED TO ALLOW WRITING BMP FILES
C -----

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INTEGER      BMDENS,      BMEMIS,      BMSTOP
INTEGER      IEA (MAXEB) , IECOUNT,      IEREF
INTEGER      INA (MAXNE) , INCOUNT,      INREF
INTEGER      ITA (MAXTE) , ITREF,      LEVEL,      MAXEB
INTEGER      MAXNE,      MAXTE,      NLEVEL,      TVAL
REAL*8      AVALUE,      EBRAI (MAXEB)
REAL*8      F1 (MAXEB, MAXNE, MAXTE, NLEVEL)
REAL*8      NERAY (MAXNE)
REAL*8      NN (MAXEB, MAXNE, MAXTE, NLEVEL)
REAL*8      SRAY (MAXEB, MAXNE, MAXTE) , XDATA (MAXEB)
REAL*8      YDATA (MAXNE) ,      ZDATA (MAXEB, MAXNE)

```