

ADAS Subroutine ceecon

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      SUBROUTINE CEECON( INTYP , OUTTYP, IEVAL, EIN,  
&                      AMDON , AMREC , EOUT  
&                      )
```

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C-----  
C ***** FORTRAN77 SUBROUTINE: CEECON *****  
C  
C PURPOSE: TO CONVERT AN ARRAY OF ENERGIES INTO A SPECIFIED FORM.  
C  
C CALLING PROGRAM: ADAS314  
C SUBROUTINE:  
C INPUT :      (I*4)  INTYP   = 1 => 'EIN(array)' UNITS: eV (Donor temp.)  
C              = 2 => 'EIN(array)' UNITS: eV (Recvr temp.)  
C              = 3 => 'EIN(array)' UNITS: eV/AMU (ENERGY)  
C INPUT :      (I*4)  OUTTYP  = 1 => 'EOUT(array)' UNITS: eV (Donor temp)  
C              = 2 => 'EOUT(array)' UNITS: eV (Recvr temp)  
C              = 3 => 'EOUT(array)' UNITS: EV/AMU (ENERGY)  
C INPUT :      (I*4)  IEVAL   = NO. OF ENERGIES IN EIN(array)  
C INPUT :      (R*8)  EIN()   = INPUT ENERGIES (STATED UNITS)  
C INPUT :      (R*8)  AMDON   = DONOR MASS NUMBER  
C INPUT :      (R*8)  AMREC   = RECEIVER MASS NUMBER  
C OUTPUT:      (R*8)  EOUT()  = OUTPUT ENERGIES (STATED UNITS)  
C              (I*4)  I      = GENERAL USE  
C              (R*8)  ECONV() = ENERGY CONVERSION PARAMETERS  
C ROUTINES:  NONE  
C NOTE:  
C          ENERGY CONVERSION PARAMETERS:  
C          INTYP = 1 ; ECONV(1) => ENERGY : EV      -> OUTPUT FORM  
C          INTYP = 2 ; ECONV(2) => ENERGY : EV      -> OUTPUT FORM  
C          INTYP = 3 ; ECONV(3) => ENERGY : EV/AMU  -> OUTPUT FORM  
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C DATE:    19/09/95  
C UPDATE:  27/08/97  HP SUMMERS - CHANGED NAME FROM CCECON TO CDECON  
C MODIFIED: Martin O'Mullane  
C DATE:    9-07-98  
C VERSION: 1.0 - ported to IDL  
C  
C VERSION: 1.1 DATE: 01-12-98  
C MODIFIED: RICHARD MARTIN  
C - PUT UNDER SCCS CONTROL  
C  
C VERSION:      1.2                      DATE: 17-05-07  
C MODIFIED: Allan Whiteford  
C          - Updated comments as part of subroutine documentation  
C          procedure.  
C-----  
C-----  
C          INTEGER          IEVAL,          INTYP,          OUTTYP  
C          REAL*8          AMDON,          AMREC,          EIN(IEVAL)  
C          REAL*8          EOUT(IEVAL)
```