

ADAS Subroutine omup

FUNCTION OMUP (IT,E,T,U,C)

```
C-----
C
C ***** FORTRAN77 SUBROUTINE: OMUP *****
C
C PURPOSE:
C     TO CALCULATE UPSILONS FOR DIFFERENT TRANSITIONS
C
C CALLING PROGRAM:
C     OMEUPS
C
C INPUT:
C     (I)      IT - TRANSITION TYPE
C     (R*8)    E - EXCITATION ENRGY
C     (R*8)    T - SCALED ENERGY VALUE OF QUADRATURE FIXED POINTS
C     (R*8)    U - SPLINE FIT TO THE KNOT POINTS AND
C              REDUCED ENERGIES
C     (R*8)    C - SCALABLE PARAMETER
C
C OUTPUT:
C     (R*8) OMUP - THE UPSILONS
C
C
C DATE: 21/06/95 VERSION 1.1
C AUTHOR: A.LANZAFAME (UNIV. OF STRATHCLYDE) & D.H.BROOKS
C         CONVERTED FROM BURGESS BBC BASIC
C
C DATE: 25/11/96 VERSION 1.2
C AUTHOR: WILLIAM OSBORN (TESSELLA SUPPORT SERVICES PLC)
C         CORRECTED IT.EQ.3 OPTION
C
C DATE: 13/05/99 VERSION 1.3
C AUTHOR: HUGH SUMMERS, UNIVERSITY OF STRATHCLYDE
C         PREVENTED CHANGE OF INPUT SUBROUTINE PARAMETER T ON RETURN
C-----
```

```
INTEGER          IT
REAL*8           C,      E,      T,      U
```