

## ADAS Subroutine i4indf

```
C
      FUNCTION I4INDF( ndim , array ,val )

C-----
C
C ***** FORTRAN77 INTEGER*4 FUNCTION: I4INDF *****
C
C PURPOSE:  Finds the index in array corresponding to the closest match
C           to value.
C
C CALLING PROGRAM:  GENERAL USE
C
C FUNCTION:
C
C FUNC:   (I*4)   I4INDF  = INDEX   (if the entry is outside the range
C                               of array then -1 is returned.)
C
C INPUT:  (I*4)   NDIM    = SIZE OF ARRAY
C INPUT:  (R*8)   ARRAY   = obvious
C INPUT:  (R*8)   VAL     = SOUGHT VALUE
C
C
C AUTHOR   : Martin O'Mullane,
C           K1/1/43,
C           JET
C
C VERSION  : 1.1
C DATE     : 17/03/1999
C
C MODIFIED : Martin O'Mullane
C           First version.
C
C VERSION  : 1.2
C DATE     : 10-04-2007
C MODIFIED : Allan Whiteford
C           - Modified documentation as part of automated
C           subroutine documentation preparation.
C-----
C-----
      INTEGER          NDIM
      REAL*8          ARRAY(NDIM), VAL
```