

ADAS Subroutine bgdiff

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C
  SUBROUTINE BGDIFF( ILEV , maxt , maxd ,
&                   popun , popar ,
&                   error , index ,
&                   ind_t , err_t , index_t , adiff_t , rt ,
&                   ind_d , err_d , index_d , adiff_d , rd
&                   )

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C
C ***** FORTRAN77 SUBROUTINE: BGDIFF *****
C
C PURPOSE:  Calculates the absolute difference from 1.0 for temperature
C           or density and updates the set of arrays holding the top
C           ndtr contributing transitions.
C
C CALLING PROGRAM: ADAS216
C
C INPUT : (R*8)   POP           = POPULATION ARRAY
C
C ROUTINES:
C           ROUTINE      SOURCE      BRIEF DESCRIPTION
C           -----
C           R8ADIF       ADAS        calculates absolute difference of array
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.
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C
C           INTEGER      ILEV,          INDEX
C           INTEGER      INDEX_D (NDLEV, NDTEM, NDTR)
C           INTEGER      INDEX_T (NDLEV, NDDEN, NDTR)
C           INTEGER      IND_D (NDLEV, NDTEM) ,          IND_T (NDLEV, NDDEN)
C           INTEGER      MAXD,          MAXT
C           REAL*8       ADIFF_D (NDLEV, NDTEM, NDTR)
C           REAL*8       ADIFF_T (NDLEV, NDDEN, NDTR) ,          ERROR
C           REAL*8       ERR_D (NDLEV, NDTEM, NDTR)
C           REAL*8       ERR_T (NDLEV, NDDEN, NDTR)
C           REAL*8       POPAR (NDLEV, NDTEM, NDDEN)
C           REAL*8       POPUN (NDLEV, NDTEM, NDDEN)
C           REAL*8       RD (NDLEV, NDTEM, NDDEN, NDTR)
C           REAL*8       RT (NDLEV, NDTEM, NDDEN, NDTR)
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