

ADAS Subroutine r8f21

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C
      function r8f21(a,b,c,d,eps)
C-----
C
C ***** fortran77 function: r8f21.for *****
C
C Purpose:  Evaluates series expansion of hypergeometric function
C           F(a,b;c;d) .
C
C Function:
C
C Input  : (r*8)  a      = 1st numerator parameter a
C Input  : (r*8)  b      = 2nd numerator parameter b
C Input  : (r*8)  d      = 3rd denominator parameter c
C Input  : (r*8)  d      = independent variable (equiv x)
C Input  : (r*8)  eps    = accuracy parameter
C
C Output: (r*8)  r8f21   = F(a,b;c;d)
C
C Routines:
C          Routine      Source      Brief description
C          -----
C          i4unit       ADAS        Specifies unit for warning message ouput
C
C Author:  H. P. summers, University of Strathclyde
C          ja7.08
C          tel. 0141-548-4196
C
C Date:    24/02/03
C
C Update:  HP Summers    24/05/04
C          restructured and added standard warning
C
C Update:  AD Whiteford  16/03/05
C          renamed to r8f21
C
C Update:  HP Summers    17/04/07
C          Corrected description comments
C-----
      REAL*8      A,          B,          C,          D
      REAL*8      EPS
```