

ADAS Subroutine r8feei

FUNCTION R8FEEI (X)

```
C-----
C
C ***** FORTRAN77 REAL*8 FUNCTION: R8FEEI *****
C
C PURPOSE: EVALUATES EXP(X)E1(X) WHERE E1 IS THE 1ST EXPONENTIAL
C           INTEGRAL
C
C NOTE:     EXACT DUPLICATE IN OPERATION TO EEI.
C
C REFERENCE:
C
C CALLING PROGRAM: GENERAL USE
C
C FUNCTION:
C
C INPUT:   (R*8)  X           = INPUT PARAMETER
C
C OUTPUT:  (R*8)  R8FEEI     = FUNCTION NAME
C
C           (R*8)  DHALF     = PARAMETER = 0.5
C           (R*8)  CX0       = PARAMETER = EQUATION CONSTANT
C           (R*8)  CX1       = PARAMETER = EQUATION CONSTANT
C           (R*8)  CX2       = PARAMETER = EQUATION CONSTANT
C           (R*8)  CX3       = PARAMETER = EQUATION CONSTANT
C           (R*8)  CX4       = PARAMETER = EQUATION CONSTANT
C           (R*8)  CX5       = PARAMETER = EQUATION CONSTANT
C           (R*8)  CY0       = PARAMETER = EQUATION CONSTANT
C           (R*8)  CY1       = PARAMETER = EQUATION CONSTANT
C           (R*8)  CY2       = PARAMETER = EQUATION CONSTANT
C           (R*8)  CY3       = PARAMETER = EQUATION CONSTANT
C           (R*8)  CY4       = PARAMETER = EQUATION CONSTANT
C           (R*8)  C0N       = PARAMETER = EQUATION CONSTANT
C           (R*8)  C1N       = PARAMETER = EQUATION CONSTANT
C           (R*8)  C2N       = PARAMETER = EQUATION CONSTANT
C           (R*8)  C3N       = PARAMETER = EQUATION CONSTANT
C           (R*8)  C1D       = PARAMETER = EQUATION CONSTANT
C           (R*8)  C2D       = PARAMETER = EQUATION CONSTANT
C           (R*8)  C3D       = PARAMETER = EQUATION CONSTANT
C           (R*8)  C4D       = PARAMETER = EQUATION CONSTANT
C
C           (R*8)  A         = GENERAL VARIABLE
C           (R*8)  Y         = GENERAL VARIABLE
C           (R*8)  Z         = GENERAL VARIABLE
C
C ROUTINES: NONE
C
C AUTHOR:   PAUL E. BRIDEN (TESSELLA SUPPORT SERVICES PLC)
C           K1/0/81
C           JET EXT. 4569
C
C DATE:     18/09/90
```

C
C VERSION : 1.2
C DATE : 20-12-2001
C MODIFIED : Martin O'Mullane
C - Removed mainframe listing information beyond column 72.
C
C VERSION : 1.3 DATE: 17-4-07
C MODIFIED : HUGH SUMMERS
C - COMPLETED COMMENT BLOCK DESCRIPTION
C
C-----
C-----
REAL*8 X