

ADAS Subroutine i4fctn

FUNCTION I4FCTN(STR , IABT)

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C-----
C
C ***** FORTRAN77 INTEGER*4 FUNCTION: I4FCTN *****
C
C PURPOSE:  TO CONVERT AN INTEGER NUMBER STORED IN A STRING
C           INTO A INTEGER*4 VARIABLE
C
C CALLING PROGRAM: GENERAL USE
C
C FUNCTION:
C
C           (I*4)  I4FCTN  = FUNCTION NAME
C           (C*(*)) STR    = STRING CONTAINING SINGLE FLOATING POINT NO.
C           (I*4)  IABT    = RETURN CODE:
C                       0 => NO ERROR
C                       1 => ERROR (A VALUE 'I4FCTN=0' WILL BE
C                               RETURNED) .
C
C           (C*1)  CH0     = PARAMETER = '0'
C           (C*1)  CH9     = PARAMETER = '9'
C           (C*1)  BLANK   = PARAMETER = ' '
C           (C*1)  CPLUS   = PARAMETER = '+'
C           (C*1)  CMINUS  = PARAMETER = '-'
C
C           (I*4)  ILEN    = LENGTH OF 'STR' STRING IN BYTES
C           (I*4)  ILAST   = POSITION OF LAST BYTE OF IDENTIFIED NUMBER
C           (I*4)  I1      = STARTING BYTE IN 'STR' OF NUMBER
C                       INCLUDING SIGN IF PRESENT
C           (I*4)  IS      = 0 => NUMBER HAS NO SIGN
C                       1 => NUMBER HAS A SIGN
C           (I*4)  ICH0    = ICHAR('0')
C           (I*4)  ICH9    = ICHAR('9')
C           (I*4)  ISTR    = ICHAR(CURRENT BYTE POSITION IN 'STR')
C           (I*4)  I       = GENERAL USE
C
C           (L*4)  LFOUND  = .TRUE.  => ALL OF THE INPUT NUMBER BYTES
C                               HAVE BEEN ASSESSED.
C                               .FALSE. => INPUT NUMBER BYTES STILL BEING
C                               ASSESSED.
C           (L*4)  LSTART  = .TRUE.  => THE FIRST DIGIT HAS BEEN FOUND
C                               .FALSE. => THE FIRST DIGIT HAS NOT YET
C                               BEEN REACHED.
C
C           (C*5)  CFORM5  = FORMAT FOR INTERNAL READING OF INTEGER
C
C NOTE:     AN ERROR WILL OCCUR (IABT=1) IF THERE IS MORE THAN ONE
C           NUMBER OCCURING IN THE STRING 'STR()'
C
C AUTHOR:   PAUL E. BRIDEN (TESSELLA SUPPORT SERVICES PLC)
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C          K1/0/37
C          JET EXT. 2520
C
C DATE:    11/07/90
C
C UPDATE:  11/02/92 - PE BRIDEN: BLANKS NOW ALLOWED BETWEEN SIGN AND
C                               FIRST DIGIT. LSTART VARIABLE ADDED.
C                               VARIABLE I2 REMOVED.
C                               + SOME MINOR RECODING - (IF STRING
C                               ENTERED IS BLANK IABT IS NOW SET TO 1)
C
C UPDATE:  16/08/93 - PE BRIDEN: CORRECTED BUG TO ALLOW BLANKS BETWEEN
C                               SIGN AND FIRST DIGIT (SEE ABOVE).
C                               1) ILAST VARIABLE ADDED.
C                               2) FORMATTED READ USED INSTEAD OF *
C                               WHEN CONVERTING IDENTIFIED INTEGER
C                               USING THE INTERNAL READ. (THIS
C                               RESTRICTS IDENTIFIED NUMBER TO BE
C                               < 100 BYTES IN LENGTH!)
C                               3) EXCLUDE TRAILING BLANKS IN THE
C                               INTERNAL READING OF THE INTEGER
C                               I.E. STR(I1:ILAST) INSTEAD OF
C                               STR(I1:ILEN)
C
C UPDATE:  07/03/95 - PE BRIDEN: INSTEAD OF USING FORMAT SPECIFIER I99
C                               WHEN INTERNALLY READING THE INTEGER
C                               CREATE THE APPROPRIATE SPECIFIER
C                               WITHIN CFORM5 AND USE THIS.
C
C VERSION  : 1.3
C DATE     : 20-12-2001
C MODIFIED : Martin O'Mullane
C          - Removed mainframe listing information beyond column 72.
C
C VERSION  : 1.3
C DATE     : 10-04-2007
C MODIFIED : Allan Whiteford
C          - Modified documentation as part of automated
C          subroutine documentation preparation.
C-----
C
C-----
CHARACTER*(*)      STR
INTEGER            IABT

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