

ADAS Subroutine h4spl3

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C
      subroutine h4spl3(  istdim ,
&                        n      , h      , w
&                        )
C-----
C
C ***** fortran77 subroutine: h4spl3.for *****
C
C purpose: calculate splines with various end conditions
C
C calling program: h4gspc
C
C notes: (1) uses labelled common /espl3/
C         (2) conditions at 1st & nth nodes controlled by iend1 & iendn
C         iend = 1 : specified d log(y) ie. dy/y at node stored in
C                 appropriate vector
C                 = 2 : zero curvature
C                 = 3 : constant curvature
C                 = 4 : matched to specified functional form in terms of
C                       two parameters a and b such that
C                       funct = p(1)*a+q(1)*b
C                       1st deriv. = p(2)*a+q(2)*b
C                       2nd deriv. = p(3)*a+q(3)*b
C                       where a1,b1,p1,q1 are used for 1st node and
C                       an,bn,pn,qn for nth node
C
C input : (i*4)  istdim = dimensionality for splining arrays
C
C input : (i*4)  n      = number of knots
C input : (r*8)  h( )   = intervals between knots
C
C output: (r*8)  w(, ) = spline matrix
C
C routines:
C
C         routine      source      brief description
C         -----
C         h4spl3       adas
C         i4unit       adas         fetch unit number for output of messages
C
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C
C date:    24 July 2002
C
C
C version: 1.1      Hugh Summers  24/07/02
C modified:         first release
C
C-----
      INTEGER          ISTDIM,      N
```

REAL*8

H (ISTDIM) , W (ISTDIM, ISTDIM)