

ADAS Subroutine lspij3

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SUBROUTINE LSPIJ3(N,H,W)
IMPLICIT REAL*8 (A-H,O-Z)
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C-----
C
C ***** FORTRAN 77 SUBROUTINE: LSPIJ3 *****
C
C PURPOSE: CALCULATE SPLINES WITH VARIOUS END CONDITIONS.
C
C EXTENDED ARRAY DIMENSION VERSION OF NSPIJ3
C
C USES LABELLED COMMON /LSPL3/
C
C CONDITIONS AT 1ST NODE AND NTH NODE CONTROLLED BY IEND1 AND IENDN
C   IEND=1 : SPECIFIED D LOG(Y) IE. DY/Y AT NODE STORED IN APPROPRIAT5070000
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
C   N=NUMBER OF KNOTS
C   H(I)=INTERVALS BETWEEN KNOTS
C OUTPUT
C   W=SPLINE MATRIX
C
C AUTHOR:
C
C ***** H.P. SUMMERS, JET          7 FEB 1989          *****
C
C UNIX-IDL CONVERSION:
C
C VERSION: 1.1          DATE: 07-10-96
C MODIFIED: WILLIAM OSBORN
C           - FIRST CONVERTED.
C
C VERSION: 1.2          DATE: 15-05-07
C MODIFIED: Allan Whiteford
C           - Updated comments as part of subroutine
C           documentation production.
C-----
C
C   INTEGER          N
C   REAL*8           H(40),          W(40,40)
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