

ADAS Subroutine lfasym

SUBROUTINE LFASYM(X, XA, N, YA, Y, DY, C1, C2, C3, C4, FORM, IFORMS)
IMPLICIT REAL*8 (A-H, O-Z)

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C-----
C
C *****      FORTRAN 77 SUBROUTINE: LFASYM *****
C
C PURPOSE: TO PROVIDE A SPLINE INTERPOLATE MAKING USE OF SPECIFIED
C ASYMPTOTIC BEHAVIOUR
C
C LARGER ARRAY DIMENSION VERSION OF NFASYM
C
C USES LABELLED COMMON /LSPL3/
C
C INPUT
C   X=REQUIRED X-VALUE
C   X(I)=KNOTS
C   N=NUMBER OF KNOTS
C   C1(I,J)=1ST SPINE COEFFICIENT PRECURSOR
C   C2(I,J)=2ND SPINE COEFFICIENT PRECURSOR
C   C3(I,J)=3RD SPINE COEFFICIENT PRECURSOR
C   C4(I,J)=4TH SPINE COEFFICIENT PRECURSOR
C   FORM=EXTERNAL FUNCTION SPECIFYING ASYMPTOTIC FORMS
C   IFORMS=INDEX OF REQUIRED FORM
C
C OUTPUT
C   Y=RETURNED Y-VALUE
C   DY=RETURNED DERIVATIVE
C
C AUTHOR:
C
C *****      H.P. SUMMERS, JET              7 FEB 1989      *****
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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          IFORMS,          N
C   REAL*8           C1(40,39),      C2(40,39),      C3(40,39)
C   REAL*8           C4(40,39),      DY,              X,              XA(40)
C   REAL*8           Y,              YA(40)
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