ADAS Subroutine lgspc

```
      SUBROUTINE LGSPC(XA,N,C1,C2,C3,C4)
      IMPLICIT REAL*8(A-H,O-Z)
C----------------------------------------------------------------------
C
C  ***********  FORTRAN 77 SUBROUTINE: LGSPC  ************************
C
C  PURPOSE: GENERATE PRECURSORS OF SPLINE COEFFICIENTS SUITABLE FOR BOTH
C  FORWARD AND BACKWARD INTERPOLATION
C
C  LARGER ARRAY DIMENSION VERSION OF NGSPC
C
C  INPUT
C     XA(I)=SET OF KNOTS
C     N=NUMBER OF KNOTS  (N.LE.20)
C  OUTPUT
C     C1(I,J)=1ST SPLINE COEFFICIENT PRECURSOR
C     C2(I,J)=2ND SPLINE COEFFICIENT PRECURSOR
C     C3(I,J)=3RD SPLINE COEFFICIENT PRECURSOR
C     C4(I,J)=4TH SPLINE COEFFICIENT PRECURSOR
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----------------------------------------------------------------------
      INTEGER           N
      REAL*8            C1(40,39),  C2(40,39),   C3(40,39)
      REAL*8            C4(40,39),   XA(40)
```