## ADAS Subroutine b2nfit

```
SUBROUTINE B2NFIT(X, XA, N, YAA, Y, DY, I0, C1, C2, C3, C4, ISW)
С
     IMPLICIT REAL *8 (A-H, O-Z)
С
С
  *********** FORTRAN77 SUBROUTINE: B2NFIT *****************
С
C PURPOSE:
C SUBROUTINE TO PERFORM SPLINE INTERPOLATION
С
С
C INPUT
   X = REQUIRED X-VALUE
С
С
     XA(I) = X-VALUES
С
             = NUMBER OF VALUES
С
     YAA(I) = Y-VALUES (POSSIBLY STORED AS MULTIPLE SETS)
С
     = STARTING INDEX(-1) IN YAA ARRAY OF REQUIRED INPUT SET
С
    C1(I,J) = 1ST SPLINE COEFFICIENT PRECURSOR
С
     C2(I,J) = 2ND SPLINE COEFFICIENT PRECURSOR
С
      C3(I,J) = 3RD SPLINE COEFFICIENT PRECURSOR
С
      C4(I,J) = 4TH SPLINE COEFFICIENT PRECURSOR
С
     ISW = .LE.O ORDINARY SPLINE INTERPOLATION
С
             = .GT.0 LOGARITHMIC SPLINE INTERPOLATION
C OUTPUT
             = RETURNED Y-VALUE
С
   Y
     DY
С
            = RETURNED DERIVATIVE
C NOTES: THIS ROUTINE IS NOT YET PROPERLY ANNOTATED
C
C UNIX-IDL PORT:
С
C VERSION: 1.1
                                     DATE: 06-03-96
C MODIFIED: TIM HAMMOND (TESSELLA SUPPORT SERVICES PLC)
С
              - PUT UNDER S.C.C.S. CONTROL
С
                        IO,
     INTEGER
                                   ISW,
                       C1(10,9), C2(10,9), C3(10,9)
C4(10,9), DY, X,
     REAL*8
     REAL*8
                                                Χ,
                                                            XA(10)
```

YAA(10)

Υ,

REAL\*8