

ADAS Subroutine h4gspc

```
C
      subroutine h4gspc(  istdim ,
&                      xa      , n      ,
&                      c1      , c2     , c3     , c4
&                      )
C-----
C
C ***** fortran77 subroutine: h4gspc.for *****
C
C purpose: generate precursors of spline coefficients suitable
C           for both forward and backward interpolation
C
C calling program: various
C
C
C input : (i*4)  istdim  = dimensionality for splining arrays
C
C input : (r*8)  xa(i)   = set of knots
C input : (i*4)  n       = number of knots   (n.le.istdim)
C
C output: (r*8)  c1(i,j) = 1st spline coefficient precursor
C output: (r*8)  c2(i,j) = 2nd spline coefficient precursor
C output: (r*8)  c3(i,j) = 3rd spline coefficient precursor
C output: (r*8)  c4(i,j) = 4th spline coefficient precursor
C
C routines:
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           C1(ISTDIM,ISTDIM-1),  C2(ISTDIM,ISTDIM-1)
      REAL*8           C3(ISTDIM,ISTDIM-1),  C4(ISTDIM,ISTDIM-1)
      REAL*8           XA(ISTDIM)
```