ADAS Subroutine hapixv

```
      subroutine hapixv( ndwvl  , ndpix  , fcrit  ,
     &                   nwvl   , npix   , wvmin  , wvmax  ,
     &                   iwvrg  , cpixmx ,
     &                   wvl    , tev    , amssno , pec    ,
     &                   cpixa  , ind1   , ind2
     &                 )
```

```
c-----------------------------------------------------------------------
c
c  ***************** fortran77 subroutine: hapixv *********************
c
c  purpose:  distribute Doppler broadened line emission into pixel range
c
c  calling program: hapecf
c
c
c  subroutine:
c
c  input : (i*4)  ndwvl   = maximum number of wavelength intervals
c  input : (i*4)  ndpix   = maximum number of pixels per wvln. interval
c  input : (r*8)  fcrit   = pixel counts for the selected line below
c                           this fraction of the largest pixel count are
c                           discounted.
c
c  input : (i*4)  nwvl    = number of wavelength intervals
c  input : (i*4)  npix()  = number of pixels assigned to wavelength interval
c  input : (r*8)  wvmin() = lower limit of wavelength interval (ang)
c  input : (r*8)  wvmax() = upper limit of wavelength interval (ang)
c
c  input : (i*4)  iwvrg   = index of wavelength range in which line lies
c  input : (r*8)  cpixmx  = largest pixel count currently found
c                           for the wavelength range
c
c  input : (r*8)  wvl     = input line wavelength for test(ang)
c  input : (r*8)  tev     = electron temperature (eV)
c  input : (r*8)  amssno  = atomic mass number
c  input : (r*8)  pec     = photon emissivity coefficient for line
c
c  output: (r*8)  cpixa() = counts in each pixel for the line
c  output: (r*8)  ind1    = first pixel with non-negligible count
c  output: (r*8)  ind2    = last pixel with non-negligible count
c
c routines:
c         routine    source    brief description
c         -------------------------------------------------------------
c         i4unit     adas      fetch unit number for output of messages
c         r8erfc     adas      returns erfc(x) function value
c
c author:  Hugh Summers, University of Strathclyde
c          JA7.08
c          tel. 0141-548-4196
c
```

```
c date:    15/01/02
c
c version  : 1.1
c date     : 15-01-2002
c modified : H P Summers
c             - first version.
c
c version  : 1.2
c date     : 18-06-2007
c modified : H P Summers
c             - corrected error in ind1 & ind2 return.
c
c----------------------------------------------------------------------
c----------------------------------------------------------------------
      INTEGER           IND1,      IND2,        IWVRG,      NDPIX
      INTEGER           NDWVL,     NPIX(NDWVL), NWVL
      REAL*8            AMSSNO,    CPIXA(NDPIX),            CPIXMX
      REAL*8            FCRIT,     PEC,         TEV,        WVL
      REAL*8            WVMAX(NDWVL),            WVMIN(NDWVL)
```