SOFA Fortran constants

These must be used exactly as presented below.

* Pi
      DOUBLE PRECISION DPI
      PARAMETER (DPI = 3.141592653589793238462643D0)

* 2Pi
      DOUBLE PRECISION D2PI
      PARAMETER (D2PI = 6.283185307179586476925287D0)

* Radians to hours
      DOUBLE PRECISION DR2H
      PARAMETER (DR2H = 3.819718634205488058453210D0)

* Radians to seconds
      DOUBLE PRECISION DR2S
      PARAMETER (DR2S = 13750.98708313975701043156D0)

* Radians to degrees
      DOUBLE PRECISION DR2D
      PARAMETER (DR2D = 57.29577951308232087679815D0)

* Radians to arc seconds
      DOUBLE PRECISION DR2AS
      PARAMETER (DR2AS = 206264.8062470963551564734D0)

* Hours to radians
      DOUBLE PRECISION DH2R
      PARAMETER (DH2R = 0.2617993877991494365385536D0)

* Seconds to radians
      DOUBLE PRECISION DS2R
      PARAMETER (DS2R = 7.272205216643039903848712D-5)

* Degrees to radians
      DOUBLE PRECISION DD2R
      PARAMETER (DD2R = 1.745329251994329576923691D-2)

* Arc seconds to radians
      DOUBLE PRECISION DAS2R
      PARAMETER (DAS2R = 4.848136811095359935899141D-6)

SOFA C constants

The constants used by the C version of SOFA are defined in the header
file sofam.h.