

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.