Subject: Re: Distance between coordinates
Posted by astr74323 on Mon, 18 May 2015 21:48:13 GMT
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> On Monday, May 18, 2015 at 2:49:42 PM UTC-4, astr...@gmail.com wrote:
>
>> Hello Wlandsman,
>>
>> Colud you give me your email or Skype?
>>
>> Beacuse I've many quetions
>>
>> I look forward to hearing from you
>
> Sorry, I can't help you, except to point you to a document on how to ask questions on Usenet
>
> http://www.catb.org/esr/faqs/smart-questions.html

Ok, I have questions with regard to terms in gcirc.pro, Could you write comment at each command line if you can

```
On_error,2                              ;Return to caller

 npar = N_params()
 IF (npar ne 6) and (npar ne 5) THEN BEGIN
   print,'Calling sequence:  GCIRC,U,RA1,DC1,RA2,DC2[,DIS]'
   print,'   U = 0  ==> Everything in radians'
   print, $
   '   U = 1  ==> RAx decimal hours, DCx decimal degrees, DIS arc sec'
   print,'   U = 2  ==> RAx, DCx decimal degrees, DIS arc sec'
   RETURN
 ENDIF


 d2r    = !DPI/180.0d0
 as2r   = !DPI/648000.0d0
 h2r    = !DPI/12.0d0

; Convert input to double precision radians
 CASE u OF
   0:  BEGIN
         rarad1 = double(ra1)
         rarad2 = double(ra2)
         dcrad1 = double(dc1)
```

```
        dcrad2 = double(dc2)
      END
  1:  BEGIN
        rarad1 = ra1*h2r
        rarad2 = ra2*h2r
        dcrad1 = dc1*d2r
        dcrad2 = dc2*d2r
      END
  2:  BEGIN
        rarad1 = ra1*d2r
        rarad2 = ra2*d2r
        dcrad1 = dc1*d2r
        dcrad2 = dc2*d2r
       END
  ELSE:  MESSAGE, $
            'U must be 0 (radians), 1 ( hours, degrees) or 2 (degrees)'
ENDCASE

deldec2 = (dcrad2-dcrad1)/2.0d
delra2 =  (rarad2-rarad1)/2.0d
sindis = sqrt( sin(deldec2)*sin(deldec2) + $
  cos(dcrad1)*cos(dcrad2)*sin(delra2)*sin(delra2) )
dis = 2.0d*asin(sindis)

IF (u ne 0) THEN dis = dis/as2r

IF (npar eq 5) && (N_elements(dis) EQ 1) THEN BEGIN
   IF (u ne 0) && (dis ge 0.1) && (dis le 1000)  $
      THEN fmt = '(F10.4)' $
      ELSE fmt = '(E15.8)'
   IF (u ne 0) THEN units = ' arcsec' ELSE units = ' radians'
   print,'Angular separation is ' + string(dis,format=fmt) + units
ENDIF

RETURN
END
```

Regards

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