Subject: Re: convert to pixel to RA and DEC in degrees?
Posted by Wayne Landsman on Wed, 02 Aug 2006 16:57:00 GMT

xyad.pro in the IDL Astronomy library does return the RA and Dec vectors as double precision

```
IDL> xyad,h,23,23,aa,dd
IDL> help,aa,dd
AA          DOUBLE   =   -0.0063888890
DD          DOUBLE   =    0.0063888890
```

Perhaps you are confused by the optional printing, which is to display to tenths of a degree in declination

```
IDL> xyad,h,23,23
   X    Y      RA     DEC      RA_2000     DEC_2000
  23.00  23.00   -0.0064  0.0064   23 59 58.47  +00 00 23.0
```

The hr mn sc display format can be adjusted using the the PRECISION keyword

```
IDL> xyad,h,23,23,precis=4
   X    Y       RA      DEC       RA_2000         DEC_2000
  23.00  23.00   -0.0064  0.0064   23 59 58.46667  +00 00 23.0000
```

--Wayne

<adisn123@yahoo.com> wrote in message
 news:1154536095.539610.137920@i3g2000cwc.googlegroups.com...
> Does anyone know a procedure which does converting job from pixel
> coordinates to RA and DEC in degrees using the image's fits header?
>
> I know there is xyad procedure in IDL library, but I want my result
> goes up to double precision.
>
> Is there any better one than xyad?
>
> Thanks.
>