
Subject: Re: REBIN needs explaining
Posted by [Chris Lee](#) on Wed, 01 Dec 2004 08:23:49 GMT
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In article <MPG.1c16c3fd524557b998988c@news.frii.com>, "David Fanning"
<davidf@dfanning.com> wrote:

```
...
> INTERPOLATE(A, 3./11. * FINDGEN(12))
> PRINT, B
> IDL prints:
> 0 2 5 8 10 13 16 19 21 24 27 30
> ***** But,
>
> IDL> Print, 3./11. * FINDGEN(12))
> 0.000000 0.272727 0.545455 0.818182 1.09091
> 1.36364 1.63636 1.90909 2.18182 2.45455 2.72727
> 3.00000
> How in the world to *those* numbers, when applied to A, produce the
> result I get? Seems like magic to me. :-( Cheers,
> David
>
```

It looks like IDL is flooring the numbers (or just dropping the floating point part) to make them INTs.

```
IDL> a=[0,10,20,30]
IDL> print, interpolate(a,findgen(12)*3/11.)
    0    2    5    8   10   13   16   19   21
   24   27   30

IDL> print, interpolate(a*1.0,findgen(12)*3/11.)
    0.00000    2.72727    5.45455    8.18182   10.9091   13.6364
   16.3636   19.0909   21.8182   24.5455   27.2727   30.0000

IDL> print, interpol(a, 12)
    0.00000    2.72727    5.45455    8.18182   10.9091   13.6364
   16.3636   19.0909   21.8182   24.5455   27.2727   30.0000
```

Chris.
