
Subject: Re: REBIN needs explaining
Posted by [David Fanning](#) on Wed, 01 Dec 2004 00:53:39 GMT
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JD Smith writes:

- > So here it has just 1 interval producing 10 points, and 10 points are
- > duplicated from the last value. The manual also recommends the
- > solution:
- >
- > If this effect is undesirable, use the INTERPOLATE function.

Well, I *would* use the INTERPOLATE function if I could understand it. :-(

The REBIN documentation says this:

```
*****
```

```
; A four point vector:  
A = [0, 10, 20, 30]
```

```
; Expand by a factor of 3:  
B = REBIN(A, 12)
```

```
PRINT, B  
IDL prints:
```

```
0 3 6 10 13 16 20 23 26 30 30 30
```

Note that the last element is repeated three times. If this effect is undesirable, use the INTERPOLATE function. For example, to produce 12 equally spaced interpolates from the interval 0 to 30:

```
B = 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

--

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Coyote's Guide to IDL Programming: <http://www.dfanning.com/>
