
Subject: interpolate weirdness

Posted by [rogass](#) on Fri, 21 Feb 2014 12:00:36 GMT

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Hi Folks,

I know that there is no 'correct' way for interpolation, but maybe a 'best' IDL way. The following example easily demonstrates what I mean:

```
IDL> d=dist(20) & print,interpolate(d,[.5],[.5],/grid)
0.853553
```

```
IDL> print,interpolate(d,[.5],[.5],/grid,/cubic)
0.622236
```

```
IDL> print,interpolate(d,[.400544],[.400544],/grid)
0.707107
```

```
IDL> print,interpolate(d,[.581946],[.581946],/grid,/cubic)
0.707107
```

```
IDL> print,'The result should be: ',sqrt(.5)
The result should be:    0.707107
```

It does not play a role which IDL version is used - for IDL 6.4 and for IDL 8.3 I got the same results. Is there any way to get 'closer' to a reasonable result?

Thanks and Cheers

Chris
