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Subject: Re: IDL

Posted by [Russell\[1\]](#) on Fri, 06 Jan 2012 17:38:41 GMT

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There isn't a default interpolation scheme, per se. There are 10 or so different interpolation routines, but are primarily focused on fitting a polynomial to the data and evaluating the fit at the requested points. In general, the lowest order is the default (so linear interpolation). This is probably fine if your grid is well sampled and you don't expect deviations smaller than the typical grid spacing. Of course, you cannot create information --- so you don't know what the curve is doing, no amount of interpolation will fix it. But it's really a question of "how smooth you want the curve to appear". Any interpolation scheme will be *\*COMPLETELY\** untrustworthy outside the limits of your data (that's called extrapolation, gulp).

[http://physics.nyu.edu/grierlab/idl\\_html\\_help/mathematics9.html](http://physics.nyu.edu/grierlab/idl_html_help/mathematics9.html)

Russell

On Jan 6, 1:22 am, shambhu <shambhu.mc...@gmail.com> wrote:

> Hi all, which Interpolation method is used in IDL by default, when  
> call to Interpolation routine?