
Subject: Re: INTERPOL question
Posted by [landsman](#) on Wed, 09 Jun 1999 07:00:00 GMT
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In article <Pine.BSF.4.05.9906091216370.28548-100000@mtolympus.ari.net>,
Anil Kochhar <anilk@mtolympus.ari.net> wrote:

> Hi All,
>
> I am using IDL Version 5.2 (SUNOS Sparc) and am having some trouble
> using the INTERPOL function in idl. I have several pairs of arrays of
> data. One of the Array pairs is an array of time and the other array
> holds a measurement (i.e. data point) at the corresponding time.
>
> I used the following command to interpolate the arrays:
>
> Pair2DataNew = Interpol (Pair2Time, Pair2Data, Pair1Time)
> Pair3DataNew = Interpol (Pair3Time, Pair3Data, Pair1Time)
> Pair4DataNew = Interpol (Pair4Time, Pair4Data, Pair1Time)
> Pair5DataNew = Interpol (Pair5Time, Pair5Data, Pair1Time)
>

It looks like you have the X and Y parameters reversed, and for example,
the first line should read

```
Pair2DataNew = Interpol( Pair2Data, Pair2Time, Pair1Time)
```

Other potential problems with using Interpol (although probably not in
your case) include

1. Not using a monotonic input X parameters (e.g. Pair2Time)
2. INTERPOL extrapolates beyond the edges, so you can get bizarre results if you try to extrapolate too far on non-smooth data.

--Wayne Landsman landsman@mpb.gsfc.nasa.gov

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