Subject: Delete bad data and interplate the new data Posted by duxiyu@gmail.com on Mon, 12 Mar 2007 09:23:54 GMT View Forum Message <> Reply to Message

I have a data array.

But there is some bad data in it.

I want to use the interpolative data to replace these bad points.

It is easy to make a procedure to do it, but I wonder whether there is internal procedure in IDL.

Best regards, Du Jian

Subject: Re: Delete bad data and interplate the new data Posted by JD Smith on Tue, 13 Mar 2007 16:18:47 GMT View Forum Message <> Reply to Message

On Mon, 12 Mar 2007 02:23:54 -0700, duxiyu@gmail.com wrote:

- > I have a data array.
- > But there is some bad data in it.
- > I want to use the interpolative data to replace these bad points.

>

- > It is easy to make a procedure to do it, but I wonder whether there is
- > internal procedure in IDL.

Yes, INTERPOL:

data=[1,2,3,42,5,6,7]

badval=42

bad=where(data eq badval,nbad,COMPLEMENT=good,NCOMPLEMENT=ngood) if nbad gt 0 && ngood gt 1 then data[bad]=interpol(data[good],good,bad)

If you want to do 2D or higher-dimension interpolation, you'll need a bit more magic.

JD

Subject: Re: Delete bad data and interplate the new data Posted by David Fanning on Tue, 13 Mar 2007 17:26:44 GMT View Forum Message <> Reply to Message

JD Smith writes:

> Yes, INTERPOL:

>

- > data=[1,2,3,42,5,6,7]
- > badval=42
- > bad=where(data eq badval,nbad,COMPLEMENT=good,NCOMPLEMENT=ngood)
- > if nbad gt 0 && ngood gt 1 then data[bad]=interpol(data[good],good,bad)

>

- > If you want to do 2D or higher-dimension interpolation, you'll need a
- > bit more magic.

Yikes! If you showed us the 2D case we would have the makings of a nice little article here. :-)

Cheers,

David

David Fanning, Ph.D.

Fanning Software Consulting, Inc.

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

Sepore ma de ni thui. ("Perhaps thou speakest truth.")