
Subject: Re: Interpolation problem

Posted by [the_cacc](#) on Mon, 03 Nov 2003 20:06:54 GMT

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sdj@tiscali.it (Pepe) wrote in message

news:<56bc95a7.0311030321.42de483d@posting.google.com>...

>

> I have a 2-d array on a regular grid with valid values which are all

> +ve. Non valid values are set to -9999 and some 'intermediate' values

> I would like to interpolate are set to -1.

It sounds like you may be mis-understanding the MISSING keyword in interpolate. In fact, you may want to be using different functions altogether: TRIANGULATE & TRIGRID.

Try the program below and see if it's what you're looking for.

Ciao.

;-----

PRO test

; Make a data set

n = 100

data = SIN(FINDGEN(n,n)/n^2)

; Missing data

mx = RANDOMU(1,n,/LONG) MOD n^2

data[mx] = -1

valid = WHERE(data NE -1)

ix = valid MOD n

iy = valid / n

; Fill in missing data

TRIANGULATE,ix,iy,tr

new = TRIGRID(ix,iy,data[valid],tr,NX=n,NY=n)

; Display.

tvsc1,data >0

tvsc1,new

END

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