
Subject: Re: Interpolation problem

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

[View Forum Message](#) <> [Reply to Message](#)

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.
tvslc,data >0
tvslc,new
```

END
