Subject: INTERPOLATE Function
Posted by laurisilla on Wed, 06 Jun 2012 08:39:08 GMT
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Hi,

I´ve got a temporal serie, temperatures, and I´ve got some zeros, e.g. blank spaces, in it that I would like to interpolate so that the serie is as complete as possible. Is the Interpolate function the correct one to employ in this case?
I´m having problems understanding the location array, I thought I had only to look for the 0's in my serie, for example by

index= where (data eq 0, count)

and then apply the interpolation function, I know I´m missing something but I simply don´t get it!

The example that is on help contents:

p = FINDGEN(4,4)
PRINT, INTERPOLATE(p, [.5, 1.5, 2.5], [.5, 1.5, 2.5], /GRID)

and prints the 3 by 3 array:

```
   2.50000   3.50000   4.50000
   6.50000   7.50000   8.50000
   10.5000   11.5000   12.5000
```

corresponding to the locations:

(.5,.5), (1.5, .5), (2.5, .5),
(.5,1.5), (1.5, 1.5), (2.5, 1.5),
(.5,2.5), (1.5, 2.5), (2.5, 2.5)

what I know is that

print, p[0,0]= 0.0000 or print, p[0,3]=12

but what I don´t get is why

print, p[0.5,0.5]=0.00000

or

print, p[0.9,0.9]=0.0000

Does that mean that p[0,0],p[0.5,0.5], and p[0.9,0.9] are equivalent??? How do I construct the location array?

Thank you

Laura