Subject: Regrid / Interpolation Question
Posted by Sean[1] on Thu, 22 Mar 2012 23:18:38 GMT
View Forum Message <> Reply to Message

All,

I have what seems to be a straightforward re-gridding/interpolation problem, but AFAIK there is no built-in vectorized way to do this that avoids loops.

Here's my inputs --
vin and yin are arrays of size (ni, nj), and the values of yin are ordered along rows
(e.g., yin[i+1,*] > yin[i,*] for 0 =< i =< (ni-2))
yout is an array of length nk

The looped version of the interpolation is the following:

```
yout = fltarr(nk,nj)
for j = 0, nj-1 do yout[*,j] = interpol( yin[*,j], vin[*,j], yout)
```

Is there an elegant and/or built-in way to do this without involving a loop?

I've written a somewhat convoluted program to do this without a loop, but it involves some transforming and doesn't seem very elegant. I'm happy to upload if someone wants to see it.

Sean