Subject: Re: Interpolate whole array instead of looping through elements
Posted by Craig Markwardt on Tue, 11 Apr 2017 19:07:09 GMT
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On Tuesday, April 11, 2017 at 12:18:30 PM UTC-4, liam....@gmx.co.uk wrote:
...
> out_vals[j,i] = bilinear(temp[*,*,j,i],ival,jval)
...
> Is there any method where one or both of the loops can be removed, and the interpolation can be carried out on the entire array (i.e. on the time and level dimensions at the same time)? I've tried to think of a quicker method, but I'm stumped.

As long as TEMP[*,*,j,i] has a lot of elements, you won't really get much of a speed-up removing the FOR loops. Try timing this loop,

```
for i = 0, ntime-1 do begin
  for j = 0, nlev-1 do begin
    DUMMY = 1
  endfor
endfor
```

However long this loop takes to run, is the amount of time you will save by removing the loop in your code.

Craig