Subject: Re: gridding large amounts of data
Posted by landers on Thu, 06 Oct 1994 14:44:57 GMT
View Forum Message <> Reply to Message

In article <36v30k$14n@danberg.llnl.gov>, dan@danberg.llnl.gov (Dan Bergmann) writes:
[snip]

|> for i=1,num do $
|> data(longitude(i),latitude(i)) = data(longitude(i),latitude(i)) + value(i)
|>
|> This works fine for small values of num, but for num>32,767 I get an error
|> saying my do loop index is too large. Can I write do loops with limits
|> greater than 32,767 ??

Use LONG integers for loop control:

```
for i = 0L, Num-1 do ...
       ^^
```

In general, you should always use longs for array indexing operations to
prevent just this problem.

|> .... Could I rewrite this in vector syntax using the
|> where statement ??

For the loop you have above, use something like:

```
i = lindgen( Num )
data(longitude(i),latitude(i)) = data(longitude(i),latitude(i)) + value(i)
```

On gridding - if you're using PV-WAVE, check out FAST_GRID3. I have had very
good luck gridding data similar to what you're describing with this function.

If this won't do it for you, check out GRID_3D.

If you have IDL, well, I'm sure they have some sort of gridding stuff, but I
can't speak to that...
;Dave