Subject: help IDL GRID3 problem

Posted by aa318 on Tue, 31 Jan 1995 18:14:42 GMT

View Forum Message <> Reply to Message

I'm using IDL version 3.6.1a and I'm trying to use the GRID3 routine. I keep getting the error message:

"Ill-conditioned matrix or all nodes co-planar"

Does anyone know what this means?

--

Linda Payzant, Bedford Institute of Oceanography, Dartmouth, Nova Scotia lpayzant@astra.bio.dfo.ca

Subject: Re: Help IDL

Posted by William Daffer on Mon, 22 Mar 1999 08:00:00 GMT

View Forum Message <> Reply to Message

VU KHAC Tri <tvk@info.fundp.ac.be> writes:

I'm assuming you're on a Unix system. There are window's users here that will make the necessary corrections should this information be faulty for windows systems.

The basic idea is to create the structure to mirror the C structure, making allowances for the short(C) -> int(IDL) mapping, and being aware that string data has to be fixed length, which doesn't appear to be a problem here. Then make an array of this structure that has

as many records as the file, or as many as you want to read at a time. The just call readu with that array of structures as the argument.

In idl

```
read_struct = { a:0.0d, b:0l, c:0}
openr, lun, your_filename_here,/get_lun,error=err
if err eq 0 then begin
 ff=fstat(lun)
 nrecs = ff.size/14;<- note, this is the sum of the data in
             ; read struct, NOT the result of
             ; N_tags(read_struct,/length)=16, which pads structure.
 ; -- to read the whole file in one read
 recs=replicate(read_struct,nrecs)
 readu,lun,recs; slurp whole file in one read
 free lun,lun
endif else Message,!error_state.msg ;<- might have to change if
                       ; not using IDL 5.0 or greater
```

Or, if you only wanted to read, say, 100 records at a time, just replace 'nrecs' above with 100. But you'd have to iterate over the 100 record batches in the file.

If the file isn't too large, you should be able to read the whole thing in one fell swoop, and it is almost always faster to do this and then prune the data according to some data editting criteria.

My mail address has been mangled by my mailer. Send replies to... daffer@primenet.com

Outside of a dog, a book is man's best friend Inside of a dog, it's too dark to read. Groucho Marx.