Subject: Re: Error in reading large Fortran unformatted files
Posted by Kenneth P. Bowman on Wed, 16 Feb 2011 15:44:19 GMT
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In article
<69299e37-2172-46f3-ade9-3a04fa2115d7@s11g2000yqc.googlegroups.com>,
 OM <metukio@gmail.com> wrote:

> There's really not much to it...
> I do it all from the command line:
> f='name_of_file'
> d=FLTARR(1024,1024,1024)
> OPENR, 1, f, /F77_UNFORMATTED
> READU, 1, d
>
> At that point I get the error. Again, for 512 this worked fine.
>

I have always had better luck not setting the /F77_UNFORMATTED
flag and reading the length words myself.

That is,

nb1 = 0
nb2 = 0
OPENR, 1, f
READU, 1, nb1, f, nb2

In any case, I suspect that you have a 64-bit filesystem, but that
Fortran only writes 32-bit record lengths. In this case, your variable
is 4 GB, which will not fit into 32 bits.

The file may be OK, and you can just ignore nb1 and nb2, since
you know how big the record is in the file.

Have a look at nb1 and nb2 and see what you find.

Ken Bowman