Subject: Re: Error in reading large Fortran unformatted files
Posted by OM on Sun, 20 Feb 2011 15:10:27 GMT
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On Feb 18, 7:15 pm, Nigel Wade <nmw-n...@ion.le.ac.uk> wrote:
> On 18/02/11 15:14, OM wrote:
>
>
>
>> So I take it the only viable solution you can think of is as suggested
>> by Ken - to break down the file into manageable bits?
>
> I don't know of any other. I think it would be easier to write, and to
> read back, as 1024 records. Programming the loop parameters would be
> simpler.
>
> I've had a play with a little FORTRAN program, compiled using gfortran,
> which writes files >2GB. It seems the first 32bit word is always
> 2147483657, regardless of the length of the record actually output.
> Maybe this is some special flag to the FORTRAN I/O library to indicate a
> large record, I don't know. I'm not about to load a file that size into
> a binary editor to look at it.
>
> Also, the file is actually 8bytes longer than it should be for a single
> record. So it may be that FORTRAN is actually splitting the record into
> two, and it knows this because of that special record length indicator.
> Presumably IDL doesn't understand this new "feature" of the GNU FORTRAN
> compiler, and fails to read the file.
>
> --
> Nigel Wade

Well, thanks everybody. I was hoping there's some way around this, but
I guess I was wrong... :/

Ofer.