Subject: Re: Need help working with large video file Posted by Kenneth P. Bowman on Thu, 02 May 2002 23:47:22 GMT View Forum Message <> Reply to Message

In article <a3589d11.0205021259.69f111b6@posting.google.com>, plmcelwee@yahoo.com (Phil) wrote:

- > I need to process 5000 frames of video through an IDL program. The
- > video is in a NetCDF file, and the total size of the file is 650MB.
- > Does anyone have any tips on how to effectively work with files this
- > large? Essentially right now I read in the entire file, store the
- > frame data in a variable, then start my computations. This was
- > working nicely with the 130MB video file I was using previously, but
- > now I get out-of-memory errors with the larger file.

NetCDF provides random access to any contiguous rectangular chunk of the data file. Assuming that you can work on a frame at a time, simply read a frame, process it, and write it back out.

Look at the OFFSET, COUNT, and STRIDE keywords to NCDF_VARGET. To read frame s which is size nx x ny:

NCDF_VARGET, id, 'Movie', frame, OFFSET = [0,0,s], COUNT = [nx,ny,1]

This assumes that time is the last dimension (IDL convention). Ncdump uses the C convention, listing the dimensions in the reverse order.

Regards, Ken

>

Subject: Re: Need help working with large video file Posted by plmcelwee on Wed, 08 May 2002 22:32:58 GMT View Forum Message <> Reply to Message

"Kenneth P. Bowman" < kpb@null.com> wrote in message news: < kpb-D80AFB.18472102052002@corp.supernews.com>...

- > In article <a3589d11.0205021259.69f111b6@posting.google.com>,
- > plmcelwee@yahoo.com (Phil) wrote:
- >> I need to process 5000 frames of video through an IDL program. The
- >> video is in a NetCDF file, and the total size of the file is 650MB.
- >> Does anyone have any tips on how to effectively work with files this
- >> large? Essentially right now I read in the entire file, store the
- >> frame data in a variable, then start my computations. This was
- >> working nicely with the 130MB video file I was using previously, but
- >> now I get out-of-memory errors with the larger file.

> NetCDF provides random access to any contiguous rectangular chunk of the

- > data file. Assuming that you can work on a frame at a time, simply read
- > a frame, process it, and write it back out.
- > Look at the OFFSET, COUNT, and STRIDE keywords to NCDF_VARGET. To read
- > frame s which is size nx x ny:
- > NCDF_VARGET, id, 'Movie', frame, OFFSET = [0,0,s], COUNT = [nx,ny,1]
- > This assumes that time is the last dimension (IDL convention). Ncdump
- > uses the C convention, listing the dimensions in the reverse order.

> Regards, Ken

>

Sorry for the delay in responding, but I got pulled away on another task before getting a chance to try your suggestion. I tried it earlier today, and just so you'll know, it worked perfectly. Thanks for the help!