Subject: Re: Pb to work with huge files

Posted by David Fanning on Thu, 10 Apr 2003 13:09:26 GMT

View Forum Message <> Reply to Message

- > I have a huge multiband file (i.e. 4800*2200*150) and I would like to
- > perform a procedure that could write a file with the same dimensions:
- > 1. openr: to open the input file
- > 2. assoc: to extrac some images on which I would like to work
- > 3. replace extracted images in the same place
- > 4, write the output file
- > My problem is that I can't create a 4800*2200*150 "integer array",
- > because I haven't enought memory.

>

> Is there another way to write file like that?

Why don't you just open the file for Updating (OPENU). Then you could just perform the file manipulation in place and close the file with the new information built right into it.

OPENU, lun, filename, /Get_Lun data = Assoc(lun, INTARR(4800,2200)) image = data(55) newImage = Hist_Equal(image) data(55) = newImage Free lun, lun

Cheers,

David

--

David W. Fanning, Ph.D. Fanning Software Consulting, Inc.

Phone: 970-221-0438, E-mail: david@dfanning.com

Coyote's Guide to IDL Programming: http://www.dfanning.com/

Toll-Free IDL Book Orders: 1-888-461-0155

Subject: Re: Pb to work with huge files
Posted by Pavel Romashkin on Thu, 10 Apr 2003 16:39:11 GMT
View Forum Message <> Reply to Message

David Fanning wrote:

>

> Why don't you just open the file for Updating (OPENU).

- > Then you could just perform the file manipulation
- > in place and close the file with the new information
- > built right into it.

Slow, isn't it? Couldn't one load like 1/3 of it into ram, process it and write back? I am no expert with assoc.

Pavel

Subject: Re: Pb to work with huge files
Posted by David Fanning on Thu, 10 Apr 2003 16:56:39 GMT
View Forum Message <> Reply to Message

Pavel Romashkin (pavel romashkin@hotmail.com) writes:

- > Slow, isn't it? Couldn't one load like 1/3 of it into ram, process it
- > and write back? I am no expert with assoc.

Slow!? With Associated variables you don't read *anything* into memory until you actually use it. Note only is it fast, it is about as efficient as it is possible to get!

Cheers,

David

--

David W. Fanning, Ph.D.

Fanning Software Consulting, Inc.

Phone: 970-221-0438, E-mail: david@dfanning.com

Coyote's Guide to IDL Programming: http://www.dfanning.com/

Toll-Free IDL Book Orders: 1-888-461-0155

Subject: Re: Pb to work with huge files
Posted by Pavel Romashkin on Thu, 10 Apr 2003 21:21:33 GMT
View Forum Message <> Reply to Message

David Fanning wrote:

>

- > Slow!? With Associated variables you don't read *anything*
- > into memory until you actually use it. Note only is it
- > fast, it is about as efficient as it is possible to get!

I thought seek is one of the slowest hardware functions of hard drives. Continuous read is much faster, although with cache it may be insignificant. I thought if you wanted to do a lot of random HD access

then seeking would slow things down.
I may be wrong! And indeed this is purely theoretical argument.