
Subject: Re: Processing getting slower and slower?
Posted by [David Fanning](#) on Mon, 06 Mar 2006 17:02:31 GMT
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Zoltan Bartalis writes:

> I am processing satellite data with IDL, involving reading in data,
> processing it, storing it in several buffer arrays and writing (appending)
> it to lots of binary files (about one million) as soon as any of the buffers
> is full. Without going into more details, a more general question: has
> anyone encountered that while going through several processing cycles
> involving intensive file opening, writing and closing, the processing gets
> slower and slower for each cycle, although the operations in each cycle are
> more or less the same? I am declaring all the buffer arrays and other needed
> variables _before_ looping through the read-in of the input data files, so I
> would expect no change in the memory usage from cycle to cycle. Is this an
> IDL issue or a platform one? Running under Windows XP.

This sounds like a memory-paging-to-disk problem to me.
Are you sure you are destroying/releasing the buffer
memory when you are finished with it?

Cheers,

David

--
David Fanning, Ph.D.
Fanning Software Consulting, Inc.
Coyote's Guide to IDL Programming: <http://www.dfanning.com/>

Subject: Re: Processing getting slower and slower?
Posted by [Foldy Lajos](#) on Mon, 06 Mar 2006 17:13:39 GMT
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Hi Zoltan,

I am a linux user, but I think one million files makes the filesystem very slow (I saw such slowdown on unix machines earlier). Try to create same directory tree structure, with no more then about 100 files/dirs in a single directory. With three levels of subdirectories you can have $100*100*100$ = one million files with much better access time. This may help (but the real solution would be using much fewer files).

Also, you can insert 'help, /memory' instructions into the loop to check memory usage.

regards,
lajos

On Mon, 6 Mar 2006, Zoltan Bartalis wrote:

> Hello all
>
> [Regular reader, first time poster]
>
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> IDL issue or a platform one? Running under Windows XP.
>
> Thanks in advance,
> /Zoltan, Vienna
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