Subject: Memory Headaches
Posted by crono15m on Thu, 01 Aug 2002 15:28:18 GMT
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I have a problem which seems to be getting more and more desperate and I'm hoping someone here may have some insight into it.

I have a situation where there is no (practical) way around loading very large files into memory as IDL variables. The problem is that sometimes they are too big and I run out of memory. I've tried increasing the amount of virtual memory in the system but IDL doesn't seem to know how to take advantage of all the virtual memory available so it's probably capped.

Eric Korpela's VARRAY solution (http://albert.ssl.berkeley.edu/~korpela/mmap/) seems like a beautifully elegant solution to my problem since I could just map the file and IDL wouldn't know the difference. However, I'm running win2k and Eric's program is only for Unix. I've looked at the source for his program to see if maybe I could modify it to run in windows but unfortunately my Unix/WinAPI/C skills seem to be lacking for the job.

If it were just me running IDL I would consider running a Unix emulator but if all goes well my analysis package could be running at several colleges and I'd rather keep the solution as unobtrusive to the user as possible. This may be asking too much. I don't know.

So basically my questions are these,
Does anyone know of a way to allow IDL to use more (maybe 1GB) virtual memory in windows?
Does anyone know of a C library that can allow windows to emulate Unix commands such as mmap and ftruncate?
Any other suggestions?

Thanks for any help,

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