Subject: Re: Very slow IDL vs Matlab (ascii file reading)
Posted by R.Bauer on Tue, 04 Nov 2003 22:13:07 GMT
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Marcin Jakubowski wrote:

> Hi all,
> I've tried to read an ASCII file, which is composed of one very long row
> (660*496) double precision numbers, each of them delimited with
> tabulator. In Matlab 6.5 I am using small program
>
> ===
> fid = fopen('Mydata.dat');
> data = fscanf(fid,'%g',[660,496]);
> fclose(fid)
> ===
>
> and it takes about one second to read the file. If I try to do similar
> in IDL 6.0
>
> ===
>   data = FltArr(660, 496)
>   OpenR, lun, 'Mydata.dat', /Get_Lun
>   ReadF, lun, data
>   Free_Lun, lun
> ===
>
> then it takes about 20 minutes (!!!) to read the same file. What causes
> the problem? Unfortunately I need to use the IDL as it is a part of huge
> code written in IDL. Is it any chance to shorten that time?
>
>
> Many thanks in advance,
> Marcin
>
> P.s. I've performed checks on PC and Linux machines and the outcomes are
> similar.

Dear Marcin,

two things
1) you are speaking from double precision but you have defined float only
2) there must be a local problem on your machines.
   How much memory is free after the first reading.
   You could use help,/memory to get this information. The thing you
   described usally happens if swapping is necessary or someone else uses
   100 % CPU time. I tried today during the lessons a similiar example
   without a problem.

regards

Reimar

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http://www.fz-juelich.de/icg/icg-i/
 == ======
a IDL library at ForschungsZentrum Juelich
 http://www.fz-juelich.de/icg/icg-i/idl_icglib/idl_lib_intro. html

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