
Subject: Re: How to read first and last line of an ascii file FAST

Posted by [agnarhs](#) on Fri, 03 Sep 2010 09:56:10 GMT

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On 29 Aug, 18:32, Heinz Stege <public.215....@arcor.de> wrote:

> On Sun, 29 Aug 2010 08:32:15 -0700 (PDT), ahs wrote:

>> Hello group,

>

>> My data is stored in a bunch of ascii files, each 5-10MB big. Each
>> line represent a sample with a timestamp. I would like to analyse all
>> my files by reading the timestamp from the first and last line of
>> every file. Getting the timestamp from the last line is the issue
>> here. Right now I'm doing it like

>

>> readf, fid, firstline

>> nlines = FILE_LINES(fnames[i])

>> skip_lun, fid, nlines-2, /LINES

>> readf, fid, lastline

>

>> skip_lun is really slow when the files are big and numerous. Does
>> anyone have a tip of I could do this faster? Is there a way to
>> directly point to the end of the file minus one line?

>

>> regards,

>> Agnar

>

> HiAgnar,

>

> I would expect, that the file_lines function is taking some time too.

> You can try the following:

>

> Get the file size in bytes by the fstat function. Then use point_lun
> to set the file pointer to n bytes before the file end. n should be
> greater than the length of the last line. Read the n bytes into a byte
> array and search for the last occurrence of CR and/or LF in that array.
> If you don't find a CR/LF increase n and repeat the steps from
> point_lun to here. Finally convert the bytes after CR/LF to string
> type.

>

> HTH, Heinz

Hi Heinz,

That was a good idea. All the lines in the ascii files are equal with
LINE_B bytes, and doing the following solved my problem.

```
A = fstat(fid)
```

```
readf, fid, firstline
```

```
point_lun, fid, A.size-LINE_B  
readf, fid, lastline
```

Agnar
