Subject: Re: Reading a very large ascii data file Posted by Martin Schultz on Fri, 24 Aug 2001 18:01:03 GMT View Forum Message <> Reply to Message

mvukovic@taz.telusa.com (Mirko Vukovic) writes:

```
> I am reading some large ascii data files in csv (comma separated
```

> fields) format, and would like to speed the process up.

- > I recall someone discussing reading such files as binaries and then
- > converting to ascii after finding line breaks, but was un-able to find
- > the discussion on the group.

>

- > Can anyone offer pointers, code, or suggestions on who might have
- > discussed it (so that I can look again on the newsgroup).

>

- > Thanks.
- > Mirko

Well, the most important speed-up is probably gained from "blocking" the input. At least, if you read the file in that "classical" way as:

```
readf, lun, line
text = [ text, line ]
```

This is very unefficient, and shoul dbe replaced with something like:

```
count = 0L
text = StrArr(10000L)
WHILE NOT Eof(lun) DO BEGIN
 Readf, lun, line
 text = line
 count = count + 1
 IF count MOD 10000L EQ 0 THEN text = [text, StrArr(10000)]
ENDWHILE
text = text[0:count-1]
```

In principle, you can use a similar technique to read the file in binary format as well (not tested):

```
LEN = 1000000L
text = BytArr(LEN)
WHILE NOT Eof(lun) DO BEGIN
 ReadU, lun, text, count=count ;; wasn't this something lately?
 IF count EQ LEN THEN text = [ text, BytArr(LEN) ]
ENDWHILE
```

```
;; The following is system dependent
cr = String(13B)
If = String(10B)
crlf = Where(text EQ If, cnt) ;; these are your line breaks in Unix
  ;; on a Mac it's simply cr, I believe, and in Windows it's cr+lf
Hope this helps somewhat,
Martin
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```