

# Re: Stream from FTP directly to MySQL while parsing CSV

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*Source:* <http://coding.derkeiler.com/Archive/PHP/comp.lang.php/2006-01/msg02074.html>

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- *From:* "d" <d@xxxxxxxxxx>
  - *Date:* Fri, 27 Jan 2006 16:50:33 GMT
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"Eric Anderson" <eric@xxxxxxx> wrote in message

[news:43d972b3\\$0\\$3039\\$6d36acad@xxxxxxxxxxxxxxxxxxxxxxxxxxxx](mailto:news:43d972b3$0$3039$6d36acad@xxxxxxxxxxxxxxxxxxxxxxxxxxxx)

>I have some files that sit on a FTP server. These files contain data stored  
>in a tab-separated format. I need to download these files and insert/update  
>them in a MySQL database. My current basic strategy is to do the following:

>

- > 1) Login to the ftp server using the FTP library in PHP
- > 2) Create a variable that acts like a file handle using Stream\_Var in  
> PEAR.

- > 3) Use ftp\_fget() to read a remote file into this variable (this is so I  
> don't have to write it to disk).

- > 4) Parse that data now stored in memory using fgetcsv() (again treating  
> that variable as a file handle using Stream\_Var). This produces an array.

- > 4) Insert/Update the data in the array using DB in PEAR.

>

> This all seems to work and it means I don't have to write anything to  
> disk. Everything is handled in memory so not temp files are needed. The  
> downside is that some of these files are very large so the program can  
> consume large amounts of memory. I want to see what I can do to reduce  
> this memory usage.

>

> In a perfect world I don't need to keep the entire file in memory. As soon  
> as a single line is read via FTP I should be able to pass that line off to  
> the CSV parsing code and the MySQL insert/update should be able to take  
> place as each line is parsed by the CSV library. I.E. I should have more  
> than a buffer worth of data in memory at a time. A buffer would need to be  
> able to store at least a entire line but my memory requirements would drop  
> significantly.

>

> My problem is that I can't seem to be able to figure out how to do this  
> with the current PHP libraries. It seems that most functions in PHP are  
> not designed around the idea of piping streams of information together.

>

> The other restriction I have is that I am limited to just PHP 4.3. Any  
> ideas or is holding the entire file in memory the best way (other than  
> writing my own libraries).

>

> Eric

Re: Stream from FTP directly to MySQL while parsing CSV

As chung was hinting at, use the FTP wrapper by simply opening the file with fopen() as you would a local file. You can then use fgets() to read a single line at a time, process that line, and repeat until the file has been read in its entirety.

dave

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• **Follow-Ups:**

- ◆ **[Re: Stream from FTP directly to MySQL while parsing CSV](#)**  
◇ From: Eric Anderson

• **References:**

- ◆ **[Stream from FTP directly to MySQL while parsing CSV](#)**  
◇ From: Eric Anderson

- Prev by Date: **[Re: Back Button POST Issue](#)**
- Next by Date: **[Windows registry access in PHP webpage possible?](#)**
- Previous by thread: **[Re: Stream from FTP directly to MySQL while parsing CSV](#)**
- Next by thread: **[Re: Stream from FTP directly to MySQL while parsing CSV](#)**
- Index(es):
  - ◆ **[Date](#)**
  - ◆ **[Thread](#)**