

Ruby - Bug #4564

mingw-w64, truncate, ftruncate and ftello -- properly evaluate it's existence

04/10/2011 03:32 AM - luislavena (Luis Lavena)

Status:	Closed	Backport:
Priority:	Normal	
Assignee:	luislavena (Luis Lavena)	
Target version:	2.0.0	
ruby -v:	-	
Description		
<pre>=begin</pre> <p>Hello,</p> <p>I'm using latest mingw-w64 builds that target in a experimental way GCC 4.7.0 codebase (gcc trunk)</p> <p>mingw-w64 also combines improved CRT and headers support, which in this case included truncate, ftruncate and ftello support.</p> <p>Ruby's trunk for win32 currently redefines those blindly, and even forces these functions presence to be used.</p> <p>The attached patch proposes rely on configure's ability to detect these functions presence, conditionally define the missing functions and rename these functions to avoid redefinitions.</p> <p>Assigning to Mr. Nobuyoshi Nakada and Mr. Usaku Nakamura for review and approval.</p> <p>I've tested this against GCC 3.4.5, 4.5.1, 4.5.2 and 4.7.0, all on Windows. These patches should not affect any Linux version, however could affect Visual Studio builds.</p> <p>Thank you for your time looking into this.</p> <pre>=end</pre>		

Associated revisions

Revision fcfc113b - 04/26/2011 03:50 PM - nobu (Nobuyoshi Nakada)

- include/ruby/win32.h (ftruncate, truncate, ftello, fseeko): non-64 versions on mingw are useless because they use int32_t. fixes #4564

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@31351 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision 475907ec - 05/30/2011 04:44 AM - yugui (Yuki Sonoda)

merges r31351 and r31352 from trunk into ruby_1_9_2.

- include/ruby/win32.h (ftruncate, truncate, ftello, fseeko): non-64 versions on mingw are useless because they use int32_t. fixes #4564
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- file.c (rb_file_truncate): fix function.

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/branches/ruby_1_9_2@31817 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

History

#1 - 04/11/2011 09:25 AM - usa (Usaku NAKAMURA)

- Status changed from Open to Assigned

=begin
It seems good.
Check in, please.
=end

#2 - 04/12/2011 01:42 AM - luislavena (Luis Lavena)

- Status changed from Assigned to Closed

- Assignee changed from nobu (Nobuyoshi Nakada) to luislavena (Luis Lavena)

- % Done changed from 0 to 100

=begin

Thank you.

Committed in r31262

=end

#3 - 04/24/2011 12:20 PM - nobu (Nobuyoshi Nakada)

- Status changed from Closed to Open

- % Done changed from 100 to 0

=begin

Since ftruncate and truncate on mingw use int32_t and are useless at all, so this change causes failures to handle over 2GB files. I'll revert this and succeeding changes or fix to use ftruncate64 instead.

=end

#4 - 04/25/2011 12:30 AM - luislavena (Luis Lavena)

=begin

Thank you Nobu,

Dunno how I missed this detail.

Please revert this until I provide a proper patch that consistently uses ftruncate64.

=end

#5 - 04/26/2011 07:51 AM - nobu (Nobuyoshi Nakada)

=begin

Try:

```
open("a.data", "w") {|f| f.truncate(1<<32)}
```

Currently this makes an empty file, while a 4GB file previously.

I consider this is a degrade.

=end

#6 - 04/27/2011 12:50 AM - nobu (Nobuyoshi Nakada)

- Status changed from Open to Closed

- % Done changed from 0 to 100

=begin

This issue was solved with changeset r31351.

Luis, thank you for reporting this issue.

Your contribution to Ruby is greatly appreciated.

May Ruby be with you.

-
- include/ruby/win32.h (ftruncate, truncate, ftello, fseeko): non-64 versions on mingw are useless because they use int32_t. fixes [#4564](#)
- =end

#7 - 05/23/2011 02:38 AM - luislavena (Luis Lavena)

Thank you Nobu,

Thing is that current 1.9.2 with MinGW do not work as you mentioned:

```
C:\Users\Luis>ruby -ve "File.open('a.data', 'w') { |f| f.truncate(1 << 32) }"
ruby 1.9.2p180 (2011-02-18) [i386-mingw32]
```

```
C:\Users\Luis>dir a.data
Directory of C:\Users\Luis
```

```
22/05/2011  01:36 p.m.                0 a.data
```

But works on trunk:

```
C:\Users\Luis>ruby -ve "File.open('a.data', 'w') { |f| f.truncate(1 << 32) }"
ruby 1.9.3dev (2011-05-23 trunk 31696) [i386-mingw32]
```

```
C:\Users\Luis>dir a.data
Directory of C:\Users\Luis
```

```
22/05/2011  01:37 p.m.         4.294.967.296 a.data
```

#8 - 05/23/2011 07:23 AM - nobu (Nobuyoshi Nakada)

- ruby -v changed from ruby 1.9.3dev (2011-04-10 trunk 31255) [i386-mingw32] to -

Hi,

At Mon, 23 May 2011 02:38:25 +0900,
Luis Lavena wrote in [\[ruby-core:36391\]](#):

Thing is that current 1.9.2 with MinGW do not work as you mentioned:

```
C:\Users\Luis>ruby -ve "File.open('a.data', 'w') { |f| f.truncate(1 << 32) }"
ruby 1.9.2p180 (2011-02-18) [i386-mingw32]
```

```
C:\Users\Luis>dir a.data
Directory of C:\Users\Luis
```

```
22/05/2011  01:36 p.m.          0 a.data
```

Thanks.
Then it should be a bug in 1.9.2. Mswin32 version works as expected at least.

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Nobu Nakada

Files

0001-properly-detect-truncate-ftuncate-and-ftello-existence.patch	2.37 KB	04/10/2011	luislavena (Luis Lavena)
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