

Ruby - Bug #4500

warning: implicit declaration of function 'fdatasync' for OS X

03/14/2011 04:21 AM - Eregon (Benoit Daloze)

Status:	Closed	Backport:
Priority:	Normal	
Assignee:	kosaki (Motohiro KOSAKI)	
Target version:	2.0.0	
ruby -v:	ruby 1.9.3dev (2011-03-01 trunk 31001) [x86_64-darwin10.6.0]	

Description

=begin
While compiling ruby, this warning appears on OS X:

compiling io.c
io.c: In function 'rb_io_fdatasync':
io.c:1433: warning: implicit declaration of function 'fdatasync'

This is a regression caused by the revert (r30821) of r30725: configure.in: Mac OS X wrongly reports it has fdatasync(3).

While fdatasync is defined, there is no header for it.
Apparently, it works as expected:

```
fh = File.open('test.txt', 'w')
fh.write('DATA')
fh.fdatasync # if this line is commented, nothing is written to the file
exit!
```

But I think we should not trust functions without prototype.
So I propose the following patch, which also document the behavior of IO#fdatasync accordingly to r30762.

```
diff --git a/configure.in b/configure.in
index 01e59f9..8a4e97e 100644
--- a/configure.in
+++ b/configure.in
@@ -940,6 +940,7 @@ AS_CASE(["$target_os"],
fi
ac_cv_type_getgroups=gid_t # getgroups() on Rosetta fills garbage
ac_cv_lib_crypt_crypt=no
```

- AC_CACHE_CHECK(for broken crypt with 8bit chars, rb_cv_broken_crypt, [AC_TRY_RUN ([

```
#include <stdio.h>
diff --git a/io.c b/io.c
index 064d1a2..e5241b3 100644
--- a/io.c
+++ b/io.c
@@ -1414,8 +1414,8 @@ rb_io_fsync(VALUE io)
*
```

- Immediately writes all buffered data in *ios* to disk.
 - NotImplementedError is raised
 - if the underlying operating system does not support *fdatasync(2)*.
 - If the underlying operating system does not support *fdatasync(2)*,

- IO#fsync is called instead (which might raise a NotImplementedError).

*/

static VALUE

=end

Associated revisions

Revision f4755f21 - 04/03/2011 12:35 PM - kosaki (Motohiro KOSAKI)

- configure.in: disable fdatsync again on Mac OS X.
[ruby-core:35493][Bug #4500]

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@31232 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

History

#1 - 04/03/2011 09:33 PM - kosaki (Motohiro KOSAKI)

- Status changed from Open to Assigned
- Assignee set to kosaki (Motohiro KOSAKI)

=begin

To be honest, I'm not sure Apple's system function support policy. But I'm sure your suggestions were right in past. Then, I'll commit this proposal as is.

Thanks.

=end

#2 - 04/04/2011 07:07 PM - kosaki (Motohiro KOSAKI)

- Status changed from Assigned to Closed

=begin

=end