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

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

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
    fi
+++
    ac_cv_func_fdatasync=no # Mac OS X wrongly reports it has fdatasync()
    AC_CACHE_CHECK(for broken crypt with 8bit chars, rb_cv_broken_crypt,
    [AC_TRY_RUN([ #include diff --git a/io.c b/io.c index 064d1a2..e5241b3 100644
@@ -1414,8 +1414,8 @@ rb_io_fsync(VALUE io)
    *  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 fdatasync 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

Revision 31232 - 04/03/2011 12:35 PM - kosaki (Motohiro KOSAKI)
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History

#1 - 04/03/2011 09:33 PM - kosaki (Motohiro KOSAKI)
- Status changed from Open to Assigned
- Assignee set to kosaki (Motohiro KOSAKI)

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.

#2 - 04/04/2011 07:07 PM - kosaki (Motohiro KOSAKI)
- Status changed from Assigned to Closed