

Ruby trunk - Bug #5001

unsigned warning raised by error.c

07/09/2011 01:41 AM - luislavena (Luis Lavena)

Status:	Closed		
Priority:	Normal		
Assignee:	usa (Usaku NAKAMURA)		
Target version:	2.0.0		
ruby -v:	ruby 1.9.3dev (2011-07-08 trunk 32461) [i386-mingw32]	Backport:	2.3: UNKNOWN, 2.4: UNKNOWN, 2.5: UNKNOWN

Description

Building on trunk, a warning around error.c worries me:

```
compiling ../../../../ruby/error.c
../../../../ruby/error.c: In function 'rb_async_bug_errno':
../../../../ruby/error.c:311:5: warning: comparison of unsigned expression < 0 is always false
../../../../ruby/error.c:312:5: warning: comparison of unsigned expression < 0 is always false
../../../../ruby/error.c:313:5: warning: comparison of unsigned expression < 0 is always false
../../../../ruby/error.c:316:2: warning: comparison of unsigned expression < 0 is always false
../../../../ruby/error.c:323:2: warning: comparison of unsigned expression < 0 is always false
../../../../ruby/error.c:325:5: warning: comparison of unsigned expression < 0 is always false
../../../../ruby/error.c:326:5: warning: comparison of unsigned expression < 0 is always false
../../../../ruby/error.c:327:5: warning: comparison of unsigned expression < 0 is always false
../../../../ruby/error.c:328:5: warning: comparison of unsigned expression < 0 is always false
```

Is caused by write_or_abort definition and the condition that write() might return a negative value, but due write being redefined to rb_w32_write (in ruby/win32.h) which is size_t

According to MSDN documentation write (_write) can return a negative value, so rb_w32_write signature should be ssize_t instead of size_t, to support signed values properly, correct?

Below patch is an attempt to correct the warning:

```
diff --git a/include/ruby/win32.h b/include/ruby/win32.h
index 4a56895..54a26ea 100644
--- a/include/ruby/win32.h
+++ b/include/ruby/win32.h
@@ -694,7 +694,7 @@ int rb_w32_close(int);
int rb_w32_fclose(FILE*);
int rb_w32_pipe(int[2]);
size_t rb_w32_read(int, void *, size_t);
-size_t rb_w32_write(int, const void *, size_t);
+ssize_t rb_w32_write(int, const void *, size_t);
int rb_w32_utime(const char *, const struct utimbuf *);
int rb_w32_utime(const char *, const struct utimbuf *);
long rb_w32_write_console(uintptr_t, int); /use uintptr_t instead of VALUE because it's not ddiff --git a/win32/win32.c
b/win32/win32.c
index 6699c2c..77b86b3 100644
--- a/win32/win32.c
+++ b/win32/win32.c
@@ -5280,7 +5280,7 @@ rb_w32_read(int fd, void *buf, size_t size)
}

#undef write
-size_t
+ssize_t
rb_w32_write(int fd, const void *buf, size_t size)
{
SOCKET sock = TO_SOCKET(fd);
```

Associated revisions

Revision 63ab1901 - 07/09/2011 06:59 AM - nobu (Nobuyoshi Nakada)

- win32/win32.c (rb_w32_{read,write}): should be signed. Bug #5001

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@32470 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision 32470 - 07/09/2011 06:59 AM - nobu (Nobuyoshi Nakada)

- win32/win32.c (rb_w32_{read,write}): should be signed. Bug #5001

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History

#1 - 07/09/2011 03:59 PM - nobu (Nobuyoshi Nakada)

- *Status changed from Open to Closed*

- *% Done changed from 0 to 100*

This issue was solved with changeset [r32470](#).

Luis, thank you for reporting this issue.

Your contribution to Ruby is greatly appreciated.

May Ruby be with you.

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