

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	
<p>Building on trunk, a warning around error.c worries me:</p> <pre>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</pre> <p>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</p> <p>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?</p> <p>Below patch is an attempt to correct the warning:</p> <pre>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_uutime(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);</pre>	

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)

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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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