

Ruby trunk - Feature #4906

rb_w32_add_socket / rb_w32_remove_socket

06/19/2011 10:35 PM - ghazel (Greg Hazel)

Status:	Closed
Priority:	Normal
Assignee:	usa (Usaku NAKAMURA)
Target version:	2.0.0
Description	
<p>It is currently not possible to use an externally created SOCKET on Windows with ruby 1.9. This bug is described in detail here (http://www.ruby-forum.com/topic/869239). In the meantime, a small pair of functions would allow gem authors to use SOCKETS, without a significant rewrite of ruby's win32 layer.</p> <p>Attached is a very tiny patch for new functions which will allow gem authors to use externally created sockets on Windows. Their usage is as follows:</p> <pre>int fd = libwhatever_get_socket(); #ifdef _WIN32 ruby_fd = rb_w32_add_socket(fd, 0); #else ruby_fd = fd; #endif ... do stuff with the ruby_fd as you would on other platforms ... #ifdef _WIN32 rb_w32_remove_socket(ruby_fd); #endif libwhatever_close_socket(fd);</pre> <p>In a nutshell; you pass the SOCKET given to you by the external library to ruby and it gives you a CRT fd you can use with ruby functions. When you're done, you pass that CRT fd to ruby to remove it, and then close the SOCKET however the library normally does.</p> <p>If the ifdefs are not preferred, rb_add_socket / rb_remove_socket could be added as no-ops on non-win32 platforms, however I should stress that making this a permanent fixture of the API is probably a mistake, and the ruby win32 code should be rewritten to use HANDLES/SOCKETs instead of CRT fds.</p>	

Associated revisions

Revision 96b96832 - 06/06/2012 05:04 AM - usa (Usaku NAKAMURA)

- ChangeLog: typo. [Feature #4906]

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@35938 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision 35938 - 06/06/2012 05:04 AM - usa (Usaku NAKAMURA)

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History

#1 - 06/20/2011 12:21 AM - luislavena (Luis Lavena)

- *Category set to core*
- *Assignee set to nobu (Nobuyoshi Nakada)*
- *Target version set to 1.9.3*

Thank you Greg for the work on this.

I've assigned to Mr. Nobuyoshi Nakada, hoping this can be cleared out as a w32 API specific and be allowed in 1.9.3.

I don't think Yugui's schedule has been followed (or at least was delayed) so I'm hoping this could be into 1.9.3.

Thoughts?

#2 - 06/25/2011 09:04 PM - luislavena (Luis Lavena)

- *Assignee changed from nobu (Nobuyoshi Nakada) to usa (Usaku NAKAMURA)*

#3 - 06/27/2011 04:10 PM - usa (Usaku NAKAMURA)

- *Status changed from Open to Assigned*
- *Target version changed from 1.9.3 to 2.0.0*

1.9.3 feature is already freezed.
Wait next version, sorry.

#4 - 06/27/2011 10:51 PM - jonforums (Jon Forums)

Version concerns aside, do any mods need to be made, or does it appear to be OK as-is?

#5 - 06/28/2011 07:32 AM - luislavena (Luis Lavena)

Usaku NAKAMURA wrote:

- 1.9.3 feature is already freezed.
Wait next version, sorry.

Mr. Usaku Nakamura,

Similar to [#4896](#) which is possible to include new features in curses for 1.9.3, can we make an exception for this too?

Asking this considering the amount of savings this new feature could provide to Ruby-C code in some extensions.

Not to mention make some of them actually work.

Thank you.

#6 - 03/27/2012 11:49 PM - jonforums (Jon Forums)

Is this planned to be included in 2.0.0?

#7 - 03/28/2012 12:16 AM - usa (Usaku NAKAMURA)

Is this planned to be included in 2.0.0?

Yes.

Thank you for your reminder.

#8 - 06/06/2012 01:35 PM - usa (Usaku NAKAMURA)

Sorry to keep you waiting for a long time.

I've added `rb_w32_wrap_io_handle()` and `rb_w32_unwrap_io_handle()`.

Although these APIs just like which you proposed, they support not only sockets but also other I/O handles.

```
int fd = libwhatever_get_socket();
#ifdef _WIN32
ruby_fd = rb_w32_wraip_io_handle(fd, O_RDWR|O_BINARY|O_NOINHERIT);
#else
ruby_fd = fd;
#endif
```

... do stuff with the `ruby_fd` as you would on other platforms ...

```
#ifdef _WIN32
rb_w32_unwrap_io_handle(ruby_fd);
#endif
libwhatever_close_socket(fd);
```

#9 - 06/06/2012 02:04 PM - usa (Usaku NAKAMURA)

- *Status changed from Assigned to Closed*

- *% Done changed from 0 to 100*

This issue was solved with changeset [r35938](#).

Greg, thank you for reporting this issue.

Your contribution to Ruby is greatly appreciated.

May Ruby be with you.

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- ChangeLog: typo. [Feature [#4906](#)]

Files

<code>add_socket.1_9.patch</code>	1.29 KB	06/19/2011	ghazel (Greg Hazel)
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