

## Backport186 - Backport #4905

### rb\_w32\_add\_socket / rb\_w32\_remove\_socket

06/19/2011 10:34 PM - ghazel (Greg Hazel)

<b>Status:</b>	Closed
<b>Priority:</b>	Normal
<b>Assignee:</b>	usa (Usaku NAKAMURA)
<b>Description</b>	
<p>It is currently very difficult to use an externally created SOCKET on Windows with ruby 1.8. Authors of all the gems I found (pg, mysql2, curb) got it wrong. This bug is described in detail here ( <a href="http://www.ruby-forum.com/topic/869239">http://www.ruby-forum.com/topic/869239</a> ). 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>	

#### History

##### #1 - 06/25/2011 09:04 PM - luislavena (Luis Lavena)

- Category set to core

- Assignee set to usa (Usaku NAKAMURA)

##### #2 - 06/27/2011 04:21 PM - usa (Usaku NAKAMURA)

- Status changed from Open to Assigned

(Please wait for progress in trunk. )

##### #3 - 10/21/2017 10:39 AM - usa (Usaku NAKAMURA)

- Project changed from Ruby 1.8 to Backport186

- Tracker changed from Feature to Backport

1.8 is out of date

**#4 - 10/21/2017 10:39 AM - usa (Usaku NAKAMURA)**

*- Status changed from Assigned to Closed*

**Files**

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add_socket.1_8.patch	906 Bytes	06/19/2011	ghazel (Greg Hazel)
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