

## Ruby - Feature #14487

### [PATCH] simplify altstack and enable reuse with thread cache

02/18/2018 09:28 PM - normalperson (Eric Wong)

|  |        |  |
|--|--------|--|
| <b>Status:</b>   | Closed |  |
| <b>Priority:</b>   | Normal |  |
| <b>Assignee:</b>   |        |  |
| <b>Target version:</b>   |        |  |
| <b>Description</b>   |        |  |
| simplify altstack and enable reuse with thread cache   |        |  |
| Instead of allocating and registering the altstack in different places, do it together to reduce code and improve readability. When thread cache is enabled, storing altstack in <code>rb_thread_t</code> is wasteful and we may reuse altstack in the same pthread. |        |  |
| This also lets us clearly allow use of <code>xmalloc</code> to allow GC to recover from <code>ENOMEM</code> .  |        |  |
| This seems straightforward and will commit soonish if no objections.   |        |  |
| (Still working on improving + benchmarking thread cache; hardware sucks :<)  |        |  |

#### Associated revisions

##### Revision 475b4aa40b6cf83e57176a063d368d55bf779e7c - 04/20/2018 09:38 PM - Eric Wong

simplify altstack and enable reuse with thread cache

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[ruby-core:85621] [Feature #14487]

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@63213 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

##### Revision 475b4aa4 - 04/20/2018 09:38 PM - Eric Wong

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##### Revision c95467e597963a3016ba918235c4400c6e00adb5 - 07/29/2018 10:15 AM - Eric Wong

`thread_pthread.c`: clear altstacks in thread cache at GVL destruction

Otherwise, an altstack may live past `ObjectSpace` destruction and `xfree`-ing the altstack will segfault.

[ruby-core:85621] [Feature #14487]

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@64102 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

**Revision c95467e597963a3016ba918235c4400c6e00adb5 - 07/29/2018 10:15 AM - Eric Wong**

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and xfree-ing the altstack will segfault.

[ruby-core:85621] [Feature #14487]

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@64102 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

**Revision c95467e5 - 07/29/2018 10:15 AM - Eric Wong**

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and xfree-ing the altstack will segfault.

[ruby-core:85621] [Feature #14487]

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@64102 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

## History

**#1 - 04/20/2018 09:38 PM - normalperson (Eric Wong)**

- Status changed from Open to Closed

Applied in changeset trunk|r63213.

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[\[ruby-core:85621\]](#) [Feature [#14487](#)]

## Files

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|   |         |            |                          |
|---|---------|------------|--------------------------|
| 0001-simplify-altstack-and-enable-reuse-with-thread-cache.patch | 5.88 KB | 02/18/2018 | normalperson (Eric Wong) |
|---|---------|------------|--------------------------|