**Ruby master - Bug #9954**

**Unexpected Hash Modification and Segmentation Fault with Named Arguments**

06/18/2014 04:44 PM - Ajedi32 (Andrew M)

<table>
<thead>
<tr>
<th>Status:</th>
<th>Closed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Priority:</td>
<td>Normal</td>
</tr>
<tr>
<td>Assignee:</td>
<td></td>
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<tr>
<td>Target version:</td>
<td>2.2.0</td>
</tr>
<tr>
<td>ruby -v:</td>
<td>ruby 2.1.2p95 (2014-05-08 revision 45877) [i686-linux]</td>
</tr>
</tbody>
</table>

| Backport:         | 2.0.0: DONTNEED, 2.1: DONE |

**Description**

While experimenting with named arguments in Ruby 2.1.2, I encountered some strange behavior where a hash was modified after being passed as a set of named arguments with the double-splat operator. While attempting to examine the issue further, I encountered a segmentation fault which I believe to be related.

I have attached a log of my experiment, and a .rb file which reproduces both the unexpected hash modification and the segfault.

**Related issues:**

- Is duplicate of Ruby master - Bug #9898: Keyword argument oddities

**Associated revisions**

- Revision 370e83b7 - 06/29/2014 06:22 PM - nagachika (Tomoyuki Chikanaga)
  merge revision(s) r46342: [Backport #9954]

  * vm.c (core_hash_merge_kwd): should return the result hash, which may be converted from and differ from the given argument.
  [ruby-core:62921] [Bug #9898]

  git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/branches/ruby_2_1@46619 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

- Revision 46619 - 06/29/2014 06:22 PM - nagachika (Tomoyuki Chikanaga)
  merge revision(s) r46342: [Backport #9954]

  * vm.c (core_hash_merge_kwd): should return the result hash, which may be converted from and differ from the given argument.
  [ruby-core:62921] [Bug #9898]

**History**

- #1 - 06/19/2014 03:04 AM - nobu (Nobuyoshi Nakada)
  - Is duplicate of Bug #9898: Keyword argument oddities added

- #2 - 06/19/2014 03:05 AM - nobu (Nobuyoshi Nakada)
  - Status changed from Open to Closed
  - Backport changed from 2.0.0: UNKNOWN, 2.1: UNKNOWN to 2.0.0: DONTNEED, 2.1: REQUIRED

- #3 - 06/19/2014 03:39 AM - Ajedi32 (Andrew M)
  Hmm... that doesn't really seem like the same issue (it has totally different symptoms from what I described here) but I'll trust your judgement on this one.

- #4 - 06/19/2014 05:07 AM - nobu (Nobuyoshi Nakada)
  2.1.2p132 segfaults by your script, due to the access to the non-Hash object as a Hash object. r46342 fixes it to return the converted result.

- #5 - 06/29/2014 06:23 PM - nagachika (Tomoyuki Chikanaga)
  - Backport changed from 2.0.0: DONTNEED, 2.1: REQUIRED to 2.0.0: DONTNEED, 2.1: DONE

Backported into ruby_2_1 branch at r46619.