

Ruby 1.8 - Bug #937

Recursive Hashes As Keys

12/28/2008 01:46 PM - dgtized (Charles Comstock)

Status:	Rejected
Priority:	Normal
Assignee:	mame (Yusuke Endoh)
Target version:	Ruby 1.8.7
ruby -v:	
Description	
=begin On 1.8.7 hashes which use themselves as keys appear to lack a meaningful value, yet are stored correctly in the keys and values list. \$ ruby -v ruby 1.8.7 (2008-08-11 patchlevel 72) [i486-linux] \$ ruby -e 'h = {}; h[h] = h; p h,h[h],h.keys[0],h.values[0]' {{...}=>{...}} nil {{...}=>{...}} {{...}=>{...}} Is this intended behavior or a bug? =end	

History

#1 - 12/28/2008 01:47 PM - dgtized (Charles Comstock)

=begin
Forgot to mention that h[h] on 1.8.6 is still h instead of degrading to a nil value.
=end

#2 - 12/28/2008 02:19 PM - mame (Yusuke Endoh)

=begin
Hi,

2008/12/28 Charles Comstock redmine@ruby-lang.org:

Bug [#937](#): Recursive Hashes As Keys
<http://redmine.ruby-lang.org/issues/show/937>

Author: Charles Comstock
Status: Open, Priority: Low
Target version: Ruby 1.8.7

On 1.8.7 hashes which use themselves as keys appear to lack a meaningful value, yet are stored correctly in the keys and values list.

```
$ ruby -v
ruby 1.8.7 (2008-08-11 patchlevel 72) [i486-linux]
$ ruby -e 'h = {}; h[h] = h; p h,h[h],h.keys[0],h.values[0]'
{{...}=>{...}}
nil
{{...}=>{...}}
{{...}=>{...}}
```

Is this intended behavior or a bug?

It's an intended change from 1.8.7. The hash value of h changes when it is assigned:

```
$ ruby18 -e 'h = {}; p h.hash; h[h] = h; p h.hash'
0
1
```

Mutable objects (such as Array and Hash) are basically improper for a hash key if you may modify them. If it is absolutely necessary, you can use Hash#rehash:

```
$ ruby18 -e 'h = {}; h[h] = h; h.rehash; p h[h]'  
{{...}=>{...}}
```

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Yusuke ENDOH mame@tsg.ne.jp

=end

#3 - 02/03/2009 10:24 AM - shyouhei (Shyouhei Urabe)

- Status changed from Open to Rejected

- Assignee set to mame (Yusuke Endoh)

=begin

=end