### Ruby master - Bug #17676

**Accessing ENV from Ractor raises IsolationError**

03/08/2021 04:12 PM - delner (David Elner)

<table>
<thead>
<tr>
<th>Status:</th>
<th>Assigned</th>
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<tbody>
<tr>
<td>Priority:</td>
<td>Normal</td>
</tr>
<tr>
<td>Assignee:</td>
<td>ko1 (Koichi Sasada)</td>
</tr>
<tr>
<td>Target version:</td>
<td>ruby 3.0.0p0 (2020-12-25 revision 95aff21468) [x86_64-linux]</td>
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#### Description

##### Background

Accessing ENV variables from a Ractor will raise Ractor::IsolationError, as the Hash is non-shareable.

##### How to reproduce

```ruby
ractor = Ractor.new do
  ENV['PATH']
end
ractor.take
```

##### Expectation and result

Ractor raises Ractor::IsolationError for ENV

Expect to be able to access ENV variables from Ractors without raising an error.

```
`block in <main>`: can not access non-shareable objects in constant Object::ENV by non-main Ractor . (Ractor::IsolationError)
```

##### Additional Notes

Attempting to create a shareable copy of ENV currently fails:

```ruby
Ractor.make_shareable(ENV, copy: true)
# TypeError: cannot freeze ENV
# from <internal:ractor>:812:in `freeze'
```

##### Suggested solutions

1. If ENV is a mutable hash, make a Ractor-compatible copy of ENV isolated to that Ractor.

### History

#### #1 - 03/08/2021 04:23 PM - delner (David Elner)

- Description updated

#### #2 - 03/09/2021 12:43 AM - hsbt (Hiroshi SHIBATA)

- Assignee set to ko1 (Koichi Sasada)
- Status changed from Open to Assigned
- Tags set to ractor

#### #3 - 03/09/2021 02:37 AM - ko1 (Koichi Sasada)

I agree ENV should be shareable.
It is in my task list, but not high priority.