

## Ruby trunk - Bug #12731

### rb\_path\_to\_class should call custom const\_defined? methods (take 2)

09/07/2016 12:01 AM - oggy (George Ogata)

<b>Status:</b> Open	
<b>Priority:</b> Normal	
<b>Assignee:</b>	
<b>Target version:</b>	
<b>ruby -v:</b> 2.3.1	<b>Backport:</b> 2.1: UNKNOWN, 2.2: UNKNOWN, 2.3: UNKNOWN

#### Description

(This is a continuation of [#3511](#), as I don't see a way to reopen the ticket, as Matz requested there.)

I'm sorry to be a pain, but I've given this more thought and I think this is still worth considering.

My current use case is a Rails application that stores serialized objects to a queue for background processing. The queue data is stored as YAML, and then a separate worker process deserializes the YAML object to process it. This is a common pattern, as used in popular job queue libraries like `resque`, `sidekiq`, `qless`, etc.

Serializing arbitrary objects in the job data is less common, but can still be handy. In our most frequent use case, we push an arbitrary receiver & method name to the queue as a convenient way of pushing a method call to the background. The class of these receivers are often lazy loaded in development.

If I understand the problems/danger you're referring to, this happens when you lazily load constants in parallel threads. My responses would be:

- There are lots of single-threaded rails applications out there for which this risk is not an issue. And even when running multithreaded in production, one might still want to run single-threaded in development to take advantage of lazy loading. I think it should up to the author to understand the risks and solutions here.
- The same risks are present with `autoload`. I think this is/was under consideration for removal, although for the reasons above I think it should stay, and unless it's going to be removed soon, I think the patch should be applied to make the constant loading behavior of `autoload` and deserialization *consistent*.
- It's not technically running `const_missing` that's dangerous here (which is all this patch does), but modifying global state (defining a constant) in separate threads. On that ground, if `const_missing` exists, it seems wrong to not invoke it when loading a constant from `Marshal/YAML`.

What do you think?