

Ruby trunk - Feature #6611

Comments requested on implementation of `set_parse_func`

06/20/2012 07:46 AM - cjheath (Clifford Heath)

Status:	Assigned
Priority:	Normal
Assignee:	matz (Yukihiro Matsumoto)
Target version:	
Description	
Folk,	
I've implemented Twister, a new mutation testing tool to replace Heckle. It relies on a new hook into the Ruby parser, in order to modify what the parser thinks it has seen.	
Although I have written C extensions before, there are some aspects of the Ruby core which I'm unfamiliar with and as a result don't know the right way to handle. I'd like your comments, suggestions and improvements please.	
https://github.com/cjheath/ruby/commit/ea99527feaf7dd06b3e8433ec640238441b188db	
In particular, I'd like to know the following:	
1) Do you prefer that I move the literal strings (which occur once each) to <code>#defined</code> ?	
https://github.com/cjheath/ruby/commit/ea99527feaf7dd06b3e8433ec640238441b188db#L1R1003	
2) Will this line of code mess up the GC, and how should I fix that?	
https://github.com/cjheath/ruby/commit/ea99527feaf7dd06b3e8433ec640238441b188db#L1R3853	
3) The <code>set_parse_func</code> is extern though it should be static, but I need to move the <code>rb_define_global_function</code> out of <code>thread.c</code> . Can someone please tell me where I should move it to, since there is no <code>Init_Parser</code> ?	
https://github.com/cjheath/ruby/commit/ea99527feaf7dd06b3e8433ec640238441b188db#L1R9029	
https://github.com/cjheath/ruby/commit/ea99527feaf7dd06b3e8433ec640238441b188db#L3R4705	
4) I think I should change <code>set_parse_func</code> to accept a flags argument and a block, instead of assuming all flags, and taking a Proc. What are the downsides of using a block instead of a Proc (does this reduce the number of Bindings that get created)? How do I change <code>set_parse_func</code> to use a block?	
The initial implementation of Twister is an extension to RSpec which adds the option <code>--twist file-or-dir</code> . It's still a bit rough - it needs to change the reporting on the twisted runs that follow the first (untwisted) run - but it does prove then concept.	
Clifford Heath, Data Constellation, http://dataconstellation.com Agile Information Management and Design.	

History

#1 - 06/21/2012 06:23 AM - cjheath (Clifford Heath)

Bump.

Please comment on <https://bugs.ruby-lang.org/issues/6611>.
I need to finish this implementation, and the support in RSpec.

Clifford Heath.

On 19/06/2012, at 10:45 AM, Clifford Heath wrote:

Folk,

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3) The set_parse_func is extern though it should be static, but I need to move the rb_define_global_function out of thread.c. Can someone please tell me where I should move it to, since there is no Init_Parser?

<https://github.com/cjheath/ruby/commit/ea99527feaf7dd06b3e8433ec640238441b188db#L1R9029>

<https://github.com/cjheath/ruby/commit/ea99527feaf7dd06b3e8433ec640238441b188db#L3R4705>

4) I think I should change set_parse_func to accept a flags argument and a block, instead of assuming all flags, and taking a Proc. What are the downsides of using a block instead of a Proc (does this reduce the number of Bindings that get created)? How do I change set_parse_func to use a block?

The initial implementation of Twister is an extension to RSpec which adds the option "--twist file-or-dir". It's still a bit rough - it needs to change the reporting on the twisted runs that follow the first (untwisted) run - but it does prove the concept.

Clifford Heath, Data Constellation, <http://dataconstellation.com>
Agile Information Management and Design.

#2 - 06/24/2012 02:25 PM - naruse (Yui NARUSE)

Generally speaking on ruby, feature request is hard to accept. Submitter must make people understand why the feature is required. The challenger must explain

- Background
- use case and current workaround
- how the new feature make their life well

Therefore for your proposal, why ripper is not enough?

#3 - 11/24/2012 09:09 AM - mame (Yusuke Endoh)

- Status changed from Open to Assigned
- Assignee set to matz (Yukihiro Matsumoto)
- Target version set to 2.6

#4 - 12/25/2017 06:15 PM - naruse (Yui NARUSE)

- Target version deleted (2.6)