

Ruby master - Feature #15963

Add *_start and *_running methods to VM_COLLECT_USAGE_DETAILS API

06/27/2019 09:16 PM - gmcgibbon (Gannon McGibbon)

Status:	Closed
Priority:	Normal
Assignee:	ko1 (Koichi Sasada)
Target version:	
Description	
I want to count how many VM instructions get executed for an arbitrary block of ruby code with VM_COLLECT_USAGE_DETAILS enabled. However, the current API enables VM usage detail collection immediately and only exposes methods to turn collection off.	
I've issued a PR to add more methods to the VM usage details API and to disable collection by default: https://github.com/ruby/ruby/pull/2258	

History

#1 - 07/30/2019 03:21 AM - ko1 (Koichi Sasada)

- Assignee set to ko1 (Koichi Sasada)

Please list new methods to discuss.

existing:

```
rb_define_singleton_method(rb_cRubyVM, "USAGE_ANALYSIS_INSN_STOP", usage_analysis_insn_stop, 0);
rb_define_singleton_method(rb_cRubyVM, "USAGE_ANALYSIS_OPERAND_STOP", usage_analysis_operand_stop, 0);
rb_define_singleton_method(rb_cRubyVM, "USAGE_ANALYSIS_REGISTER_STOP", usage_analysis_register_stop, 0);
```

proposal:

```
rb_define_singleton_method(rb_cRubyVM, "USAGE_ANALYSIS_INSN_START", usage_analysis_insn_start, 0);
rb_define_singleton_method(rb_cRubyVM, "USAGE_ANALYSIS_OPERAND_START", usage_analysis_operand_start, 0);
rb_define_singleton_method(rb_cRubyVM, "USAGE_ANALYSIS_REGISTER_START", usage_analysis_register_start, 0);
rb_define_singleton_method(rb_cRubyVM, "USAGE_ANALYSIS_INSN_RUNNING", usage_analysis_insn_running, 0);
rb_define_singleton_method(rb_cRubyVM, "USAGE_ANALYSIS_OPERAND_RUNNING", usage_analysis_operand_running, 0);
);
rb_define_singleton_method(rb_cRubyVM, "USAGE_ANALYSIS_REGISTER_RUNNING", usage_analysis_register_running, 0);
```

do you need clear methods?

#2 - 08/06/2019 06:49 PM - gmcgibbon (Gannon McGibbon)

I have been using Hash#clear to clear the constants, but that's because a clear method doesn't exist. I will add the following to the PR:

```
rb_define_singleton_method(rb_cRubyVM, "USAGE_ANALYSIS_INSN_CLEAR", usage_analysis_insn_clear, 0);
rb_define_singleton_method(rb_cRubyVM, "USAGE_ANALYSIS_OPERAND_CLEAR", usage_analysis_operand_clear, 0);
rb_define_singleton_method(rb_cRubyVM, "USAGE_ANALYSIS_REGISTER_CLEAR", usage_analysis_register_clear, 0);
```

#3 - 08/08/2019 05:26 AM - ko1 (Koichi Sasada)

- Status changed from Open to Closed

Thank you, committed!

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