

Ruby master - Bug #13829

NUL char in \$0

08/19/2017 03:53 AM - nobu (Nobuyoshi Nakada)

Status: Closed	
Priority: Normal	
Assignee:	
Target version:	
ruby -v:	Backport: 2.2: UNKNOWN, 2.3: UNKNOWN, 2.4: UNKNOWN

Description

\$0 and Process.setproctitle ignore \0 and the after.
Is it intentional?

```
$ ruby -e '$0 = "foo\0bar"; system("ps", "#$$"); Process.setproctitle("bar\0foo"); system("ps", "#$$")'
```

```
  PID  TT  STAT      TIME COMMAND
34931 s001  S+      0:00.06 foo
  PID  TT  STAT      TIME COMMAND
34931 s001  S+      0:00.06 bar
```

I'd expect an exception instead.

```
commit c136175ff118c7837948cf6fbdcd0d96bc8a837
Author: Nobuyoshi Nakada <nobu@ruby-lang.org>
Date:   Fri Aug 18 22:30:06 2017
```

```
ruby.c: reject NUL in $0
```

```
* ruby.c (ruby_setproctitle): raise if the argument contains NUL
char. process title is a NUL-terminated string.
```

```
diff --git a/ruby.c b/ruby.c
index f2f3c86e09..09ab1c24c4 100644
--- a/ruby.c
+++ b/ruby.c
@@ -2041,6 +2041,8 @@ proc_argv0(VALUE process)
     return rb_orig_progname;
 }

+static VALUE ruby_setproctitle(VALUE title);
+
+/*
+ * call-seq:
+ *   Process.setproctitle(string) -> string
@@ -2061,10 +2063,14 @@ proc_argv0(VALUE process)
 static VALUE
 proc_setproctitle(VALUE process, VALUE title)
 {
-    StringValue(title);
-
-    setproctitle("%.*s", RSTRING_LENINT(title), RSTRING_PTR(title));
+    return ruby_setproctitle(title);
+}

+static VALUE
+ruby_setproctitle(VALUE title)
+{
+    const char *ptr = StringValueCStr(title);
+    setproctitle("%.*s", RSTRING_LENINT(title), ptr);
     return title;
 }
```

```

@@ -2074,7 +2080,7 @@ set_arg0(VALUE val, ID id)
     if (origarg.argv == 0)
       rb_raise(rb_eRuntimeError, "$0 not initialized");

-   rb_progname = rb_str_new_frozen(proc_setproctitle(rb_mProcess, val));
+   rb_progname = rb_str_new_frozen(ruby_setproctitle(val));
 }

static inline VALUE
diff --git a/test/ruby/test_rubyoptions.rb b/test/ruby/test_rubyoptions.rb
index d6297c8979..5d2967e65e 100644
--- a/test/ruby/test_rubyoptions.rb
+++ b/test/ruby/test_rubyoptions.rb
@@ -534,6 +534,13 @@
     def test_setproctitle
       skip "platform dependent feature" unless defined?(PSCMD) and PSCMD

+     assert_separately([], "#{<<-\"begin;\"\n#\<<-\"end;\"}")
+     begin;
+       assert_raise(ArgumentError) do
+         Process.setproctitle("hello\0")
+       end
+     end;
+
     with_tmpchdir do
       write_file("test-script", "$_0 = $_0.dup; Process.setproctitle('hello world'); $_0 == $_0 or
Process.setproctitle('$0 changed!'); sleep 60")

```

Associated revisions

Revision f16f0441 - 10/19/2017 11:24 AM - nobu (Nobuyoshi Nakada)

ruby.c: reject NUL in \$0

- ruby.c (ruby_setproctitle): raise if the argument contains NUL char. process title is a NUL-terminated string. [ruby-core:82425] [Bug #13829]

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@60215 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision 60215 - 10/19/2017 11:24 AM - nobu (Nobuyoshi Nakada)

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History

#1 - 10/19/2017 11:24 AM - nobu (Nobuyoshi Nakada)

- Status changed from Open to Closed

Applied in changeset [trunk|r60215](#).

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