Ruby trunk - Feature #14643

Remove problematic separator '\0' of Dir.glob and Dir.[]

03/29/2018 03:52 AM - usa (Usaku NAKAMURA)

Status:	Closed	
Priority:	Normal	
Assignee:		
Target version:		

Description
Dir.glob and Dir.[] accepts '\0' separated string as the parameter, but this feature is very problematic. Shouldn't we remove this feature for Ruby3 ?

Associated revisions

Revision c635662d - 04/19/2018 07:05 AM - nobu (Nobuyoshi Nakada)

dir.c: warning for NUL

- dir.c (rb_push_glob): warn NUL-separated glob patterns. [Feature #14643]

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@63190 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision 63190 - 04/19/2018 07:05 AM - nobu (Nobuyoshi Nakada)

dir.c: warning for NUL

- dir.c (rb_push_glob): warn NUL-separated glob patterns. [Feature #14643]

Revision 63190 - 04/19/2018 07:05 AM - nobu (Nobuyoshi Nakada)

dir.c: warning for NUL

- dir.c (rb_push_glob): warn NUL-separated glob patterns. [Feature #14643]

History

#1 - 03/30/2018 11:13 AM - shevegen (Robert A. Heiler)

If it is to be removed, and it is decided to remove in ruby3,
perhaps a warning could be shown in next upcoming releases of
ruby, that this will no longer be supported, e. g. a bit similar
in how the '|' character is no longer supported as-is.

https://github.com/ruby/ruby/blob/trunk/NEWS#compatibility-issues-excluding-feature-bug-fixes

(I write if because I have no idea how ruby people use this
functionality. I myself never used '\0' and neither the '|'
character either so I could not tell. I am just saying it
in regards to whether this will change for ruby3.x)

#2 - 03/30/2018 01:28 PM - nobu (Nobuyoshi Nakada)

```
diff --git a/dir.c b/dir.c
index 6d2bedf557..432db031e9 100644
--- a/dir.c
+++ b/dir.c
@@ -2536,6 +2536,7 @@ rb_push_glob(VALUE str, VALUE base, int flags) /* '\0' is delimiter */
     long offset = 0;
     long len;
     VALUE ary;
+    int warned = FALSE;

     /* can contain null bytes as separators */
     if (!RB_TYPE_P((str), T_STRING)) {
@@ -2553,6 +2554,10 @@ rb_push_glob(VALUE str, VALUE base, int flags) /* '\0' is delimiter */
         const char *pbeg = RSTRING_PTR(str), *p = pbeg + offset;
         const char *pend = memchr(p, '\0', rest);
         if (pend) {
+            if (!warned) {
```

```
+                    rb_warn("use Array of glob patterns instead of nul-separated patterns");
+                    warned = TRUE;
+                }
                rest = ++pend - p;
                offset = pend - pbeg;
            }
```

#3 - 03/30/2018 01:38 PM - nobu (Nobuyoshi Nakada)

I've missed to set warned flag, and rubyspec shows the warning.

```
diff --git a/spec/ruby/core/dir/shared/glob.rb b/spec/ruby/core/dir/shared/glob.rb
index 40973995c1..2fe22ac6c3 100644
--- a/spec/ruby/core/dir/shared/glob.rb
+++ b/spec/ruby/core/dir/shared/glob.rb
@@ -25,9 +25,11 @@
     Dir.send(@method, obj).should == %w[file_one.ext]
   end

-  it "splits the string on \\0 if there is only one string given" do
-    Dir.send(@method, "file_o*\0file_t*").should ==
-            %w!file_one.ext file_two.ext!
+  ruby_version_is ""..."2.6" do
+    it "splits the string on \\0 if there is only one string given" do
+      Dir.send(@method, "file_o*\0file_t*").should ==
+          %w!file_one.ext file_two.ext!
+    end
   end

   it "matches non-dotfiles with '*'" do
```

#4 - 04/19/2018 06:55 AM - matz (Yukihiro Matsumoto)

LGTM. The change will reduce the potential security risk.

Matz.

#5 - 04/19/2018 07:06 AM - nobu (Nobuyoshi Nakada)

- Status changed from Open to Closed

Applied in changeset trunk|r63190.

---

dir.c: warning for NUL

- dir.c (rb_push_glob): warn NUL-separated glob patterns. [Feature #14643]