

## Ruby trunk - Bug #5517

### Unable to build trunk/ruby\_1\_9\_3 with Windows SDK for Windows 7

10/31/2011 12:36 AM - jonforums (Jon Forums)

<b>Status:</b> Closed	
<b>Priority:</b> Normal	
<b>Assignee:</b> usa (Usaku NAKAMURA)	
<b>Target version:</b> 1.9.3	
<b>ruby -v:</b> ruby 1.8.7 (2011-06-30 patchlevel 352) [i386-mingw32]	<b>Backport:</b>

**Description**

While attempting to build with Windows SDK for Windows 7 (7.1), 7.1.7600.0.30514 I get the following error:

```
C:\Users\Jon\Documents\RubyDev\ruby-git\build>..\win32\configure.bat --prefix=c:\projects\ruby193-mswin
--target=i686-mswin32 --disable-install-doc --disable-win95
~setup~.mak(4) : fatal error U1034: syntax error : separator missing
Stop.
```

**BUILD ENVIRONMENT**

```
C:\Users\Jon\Documents\RubyDev\ruby-git\build>ruby --version
ruby 1.8.7 (2011-06-30 patchlevel 352) [i386-mingw32]

C:\Users\Jon\Documents\RubyDev\ruby-git\build>bison --version
bison (GNU Bison) 2.4.2

C:\Users\Jon\Documents\RubyDev\ruby-git\build>sed --version
GNU sed version 4.2.1

C:\Users\Jon\Documents\RubyDev\ruby-git\build>nmake /?
Microsoft (R) Program Maintenance Utility Version 10.00.30319.01

C:\Users\Jon\Documents\RubyDev\ruby-git\build>cl /?
Microsoft (R) 32-bit C/C++ Optimizing Compiler Version 16.00.30319.01 for 80x86

C:\Users\Jon\Documents\RubyDev\ruby-git\build>lib /?
Microsoft (R) Library Manager Version 10.00.30319.01

C:\Users\Jon\Documents\RubyDev\ruby-git\build>dumpbin /?
Microsoft (R) COFF/PE Dumper Version 10.00.30319.01
```

**file: ~setup~.mak**

```
ifndef CONFIGURE_ARGS
configure_args = --prefix=c:\projects\ruby193-mswin --target=i686-mswin32 --disable-install-doc --disable-win95
endif

####
conf = ..\win32\configure.bat
$(conf): nul
@del ~setup~.mak
@-$(MAKE) -I$(MAKEFLAGS) -f $(@D)/setup.mak \
"prefix=c:\projects\ruby193-mswin" \
"i686-mswin32" \
"RDOCTARGET=nodoc" \
"ENABLE_WIN95=no" \
WIN32DIR=$(@D:=)
@if exist Makefile.old del Makefile.old
@if exist Makefile ren Makefile Makefile.old
@ren Makefile.new Makefile
```

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## Associated revisions

### Revision 3e6ea930 - 11/03/2011 07:55 PM - usa (Usaku NAKAMURA)

- win32/configure.bat: disable delayed expansion of environment variable. [Bug #5517] [ruby-core:40531]

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@33630 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

### Revision 33630 - 11/03/2011 07:55 PM - usa (Usaku NAKAMURA)

- win32/configure.bat: disable delayed expansion of environment variable. [Bug #5517] [ruby-core:40531]

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### Revision 33630 - 11/03/2011 07:55 PM - usa (Usaku NAKAMURA)

- win32/configure.bat: disable delayed expansion of environment variable. [Bug #5517] [ruby-core:40531]

### Revision 496e9a7b - 01/02/2012 11:55 PM - kosaki (Motohiro KOSAKI)

merge revision(s) 33630:

```
* win32/configure.bat: disable delayed expansion of environment variable.  
[Bug #5517] [ruby-core:40531]
```

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/branches/ruby\_1\_9\_3@34177 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

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## History

### #1 - 11/03/2011 03:47 AM - jonforums (Jon Forums)

Category should have been set to "build" but redmine doesn't allow me to switch it now. Relevant to both 2.0.0 and 1.9.3.

### #2 - 11/03/2011 06:18 AM - drbrain (Eric Hodel)

- *Category set to build*

### #3 - 11/03/2011 07:22 AM - luislavena (Luis Lavena)

- *Assignee set to usa (Usaku NAKAMURA)*

### #4 - 11/04/2011 12:27 AM - phasis68 (Heesob Park)

From the log, I noticed the line #188 of configure.bat  
echo>>confargs.c !ifndef CONFIGURE\_ARGS

output "ifndef CONFIGURE\_ARGS" without "!" for some reason.

I guess this issue is related with the V option of CMD.EXE.  
According to the help message:

```
/V:ON Enable delayed environment variable expansion using ! as the  
delimiter. For example, /V:ON would allow !var! to expand the  
variable var at execution time. The var syntax expands variables
```

at input time, which is quite a different thing when inside of a FOR loop.

Here is a test case

```
C:\Tmp>type a.bat
@echo off
echo !ifndef CONFIGURE_ARGS
```

```
C:\Tmp>cmd /v:on
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.
```

```
C:\Tmp>a.bat
ifndef CONFIGURE_ARGS
```

```
C:\Tmp>cmd /v:off
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.
```

```
C:\Tmp>a.bat
ifndef CONFIGURE_ARGS
```

In order to workaround this issue, you can use "setlocal DISABLEDELAYEDEXPANSION" in front of batch file.

```
C:\Tmp>type a.bat
@echo off
@setlocal DISABLEDELAYEDEXPANSION
echo !ifndef CONFIGURE_ARGS
```

```
C:\Tmp>cmd /v:on
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.
```

```
C:\Tmp>a.bat
ifndef CONFIGURE_ARGS
```

```
C:\Tmp>cmd /v:off
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.
```

```
C:\Tmp>a.bat
ifndef CONFIGURE_ARGS
```

#### #5 - 11/04/2011 01:22 AM - jonforums (Jon Forums)

Very nice. I checked the shortcut I use to launch a shell and found the "Target:" had

```
C:\Windows\System32\cmd.exe /E:ON /V:ON /T:0E /K "C:\Program Files\Microsoft SDKs\Windows\v7.1\Bin\SetEnv.Cmd" /x86 /release /win7
```

After changing to /V:OFF I get the following and am off and running again.

```
C:\Users\Jon\Documents\RubyDev\ruby-git\build>..\win32\configure.bat --prefix=c:\projects\ruby193-mswin --target=i686-mswin32
--disable-install-doc --disable-win95
Creating Makefile.new
PROCESSOR_LEVEL =
type `nmake' to make ruby.
```

Normally this is where I'd suck it up and eat a little plate of steaming crow for not configuring my system correctly by saying something like "Sorry for the noise, please close".

But seems to be one of those tweeky issues we should make disappear. Is there a way to make configure.bat immune to /V:ON or /V:OFF in this case, perhaps by adding your @setlocal DISABLEDELAYEDEXPANSION workaround? Would it then cause problems for those using the IDE to build?

If the workaround isn't solid, I'd like to see this issue documented in win32/README.win32

#### #6 - 11/04/2011 04:55 AM - usa (Usaku NAKAMURA)

- Status changed from Open to Closed

- % Done changed from 0 to 100

This issue was solved with changeset [r33630](#).

Jon, thank you for reporting this issue.

Your contribution to Ruby is greatly appreciated.

May Ruby be with you.

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- win32/configure.bat: disable delayed expansion of environment variable. [Bug [#5517](#)] [ruby-core:40531]

**#7 - 11/04/2011 05:05 AM - usa (Usaku NAKAMURA)**

Thank you reporting, Jon.  
And, thank you debugging, Heesob.

**#8 - 11/04/2011 05:24 AM - jonforums (Jon Forums)**

Thank you both as this was fantastically easy. Onto learning how to covert optflags and debugflags options into cl options.

```
nmake
...
nmake test
...
PASS all 943 tests
...
KNOWNBUGS.rb .
PASS all 1 tests
nmake install
...
C:\projects\ruby193-mswin>bin\ruby.exe -ve "puts 'Hello Ruby from Windows SDK!'"
ruby 2.0.0dev (2011-11-04 trunk 33630) [i386-mswin32_100]
Hello Ruby from Windows SDK!
```