

Ruby - Bug #21328

Gem::Ext::BuildError: ERROR: Failed to build gem native extension.

05/11/2025 03:27 PM - fagrela (Felipe Agrela)

Status:	Closed	
Priority:	Normal	
Assignee:		
Target version:		
ruby -v:	3.3.8	Backport: 3.2: UNKNOWN, 3.3: UNKNOWN, 3.4: UNKNOWN

Description

We are facing an issue that starts in 05/03/2025

We have an Azure Devops Pipeline that build and test a project, but in the test step we have the following error:

Gem::Ext::BuildError: ERROR: Failed to build gem native extension.

C:/hostedtoolcache/windows/Ruby/3.3.8/x64/lib/ruby/gems/3.3.0/gems/ffi-1.16.3/ext/ffi_c

'/c/hostedtoolcache/windows/Ruby/3.3.8/x64/lib/ruby/gems/3.3.0/gems/ffi-1.16.3/ext/ffi_c/libffi-x64-mingw-ucrt'

2025-05-08T20:17:16.1292182Z compiling AbstractMemory.c

2025-05-08T20:17:16.1293918Z AbstractMemory.c: In function 'rbffi_AbstractMemory_Init':

2025-05-08T20:17:16.1379827Z AbstractMemory.c(816,49): error G9F317667: passing argument 3 of 'rb_define_method' from [C:\Users\VssAdministrator\.nuget\packages\project.msbuild.sdk\8.0.10-platform-debuggi0004\build\Chef\ChefDependencies.proj] [D:\a\1\s\Tests\ChefUnitTests\ChefUnitTests.csproj]

2025-05-08T20:17:16.1382541Z incompatible pointer type [-Wincompatible-pointer-types]

2025-05-08T20:17:16.1384491Z 816 | rb_define_method(classMemory, "put_" #type, me

2025-05-08T20:17:16.1386316Z memory_put_##type, 2); \

2025-05-08T20:17:16.1386316Z | ^~

~~~~~

2025-05-08T20:17:16.1388056Z | |

2025-05-08T20:17:16.1389784Z | VALUE (\*)

2025-05-08T20:17:16.1391627Z ) (VALUE, VALUE,

2025-05-08T20:17:16.1393395Z VALUE) {aka long long unsigned int (\*) (long long unsigned

2025-05-08T20:17:16.1395349Z int, long long

2025-05-08T20:17:16.1397142Z unsigned int, long long unsigned int)}

2025-05-08T20:17:16.1398853Z AbstractMemory.c:833:5: note: in expansion of macro 'INT'

2025-05-08T20:17:16.1400582Z 833 | INT(int8);

2025-05-08T20:17:16.1402347Z | ^~~

2025-05-08T20:17:16.1404181Z In file included from

2025-05-08T20:17:16.1406077Z C:/hostedtoolcache/windows/Ruby/3.3.8/x64/include/ruby-3.3

2025-05-08T20:17:16.1407838Z .0/ruby/internal/anyargs.h:78,

2025-05-08T20:17:16.1409590Z from

2025-05-08T20:17:16.1411368Z C:/hostedtoolcache/windows/Ruby/3.3.8/x64/include/ruby-3.3

2025-05-08T20:17:16.1413229Z .0/ruby/ruby.h:27,

2025-05-08T20:17:16.1415037Z from

2025-05-08T20:17:16.1417112Z C:/hostedtoolcache/windows/Ruby/3.3.8/x64/include/ruby-3.3

2025-05-08T20:17:16.1419032Z .0/ruby.h:38,

2025-05-08T20:17:16.1420785Z from AbstractMemory.c:40:

2025-05-08T20:17:16.1422532Z C:/hostedtoolcache/windows/Ruby/3.3.8/x64/include/ruby-3.3

2025-05-08T20:17:16.1422532Z note: expected 'VALUE (\*) (void)' {aka 'long long unsigned

2025-05-08T20:17:16.1422532Z int (\*) (void)'} but

2025-05-08T20:17:16.1422532Z argument is of type 'VALUE (\*) (VALUE, VALUE, VALUE)' {ak

2025-05-08T20:17:16.1422532Z a 'long long unsigned

2025-05-08T20:17:16.1422532Z int (\*) (long long unsigned int, long long unsigned int,

2025-05-08T20:17:16.1422532Z long long unsigned

2025-05-08T20:17:16.1422532Z int)'} }

2025-05-08T20:17:16.1422532Z 99 | void rb\_define\_method(VALUE klass, const char \*mid, V

2025-05-08T20:17:16.1422532Z ALUE

```
2025-05-08T20:17:16.1424350Z      (*func) (ANYARGS), int arity);
2025-05-08T20:17:16.1427260Z      |
2025-05-08T20:17:16.1429021Z      ~~~~~^~~~~~
2025-05-08T20:17:16.1430845Z      AbstractMemory.c:96:1: note: 'memory_put_int8' declared he
re
2025-05-08T20:17:16.1432652Z      96 | memory_put_##name(VALUE self, VALUE offset, VALUE
value) \
2025-05-08T20:17:16.1434412Z      | ^~~~~~
2025-05-08T20:17:16.1436168Z      AbstractMemory.c:259:1: note: in expansion of macro 'NUM_O
P'
2025-05-08T20:17:16.1438040Z      259 | NUM_OP(int8, int8_t, NUM2INT, INT2NUM, NOSWAP);
2025-05-08T20:17:16.1439757Z      | ^~~~~~
2025-05-08T20:17:16.1446346Z AbstractMemory.c(817,49): error G9F317667: passing argument 3 of 'rb_
define_method' from [C:\Users\VssAdministrator\.nuget\packages\project.msbuild.sdk\8.0.10-platform
-debuggi0004\build\Chef\ChefDependencies.proj] [D:\a\1\s\Tests\ChefUnitTests\ChefUnitTests.csproj]
2025-05-08T20:17:16.1448813Z      incompatible pointer type [-Wincompatible-pointer-types]
2025-05-08T20:17:16.1450695Z      817 |      rb_define_method(classMemory, "get_" #type, me
mory_get_##type, 1); \
2025-05-08T20:17:16.1452471Z      |
~~~~~
2025-05-08T20:17:16.1454208Z |
2025-05-08T20:17:16.1455919Z | VALUE (*
) (VALUE, VALUE)
2025-05-08T20:17:16.1457703Z {aka long long unsigned int (*) (long long unsigned int, l
ong long unsigned
2025-05-08T20:17:16.1459434Z int)}
2025-05-08T20:17:16.1461252Z AbstractMemory.c:833:5: note: in expansion of macro 'INT'
2025-05-08T20:17:16.1463024Z 833 | INT(int8);
2025-05-08T20:17:16.1464707Z | ^~~
```

Any ideas or how can we fix that?

**Related issues:**

Is duplicate of Ruby - Bug #21286: Windows - MSYS2 just updated to GCC 15.1.0... **Closed**

**History**

**#1 - 05/11/2025 03:33 PM - fagrela (Felipe Agrela)**

- Description updated

**#2 - 05/11/2025 09:54 PM - mame (Yusuke Endoh)**

- Is duplicate of Bug #21286: Windows - MSYS2 just updated to GCC 15.1.0, builds failing added

**#3 - 05/11/2025 09:56 PM - mame (Yusuke Endoh)**

- Status changed from Open to Closed

I believe this is the same issue as [#21286](#).

Please apply the patch of <https://github.com/ruby/ruby/pull/13202> yourself, or wait for Ruby 3.3.9.

**#4 - 05/11/2025 09:56 PM - mame (Yusuke Endoh)**

Or, use GCC 14 for a while, if possible. (I am not familiar with MSYS2)

**#5 - 05/12/2025 07:42 AM - nobu (Nobuyoshi Nakada)**

- Description updated