

Ruby - Bug #14260

test failure related with proc arity on 32-bit environment (e.g. Solaris 10 with 32-bit compile)

12/30/2017 04:23 PM - ngoto (Naohisa Goto)

Status:	Closed	
Priority:	Normal	
Assignee:		
Target version:		
ruby -v:		
Backport:		2.3: DONTNEED, 2.4: DONTNEED, 2.5: DONE

Description

r59358 #####sparc Solaris 10 Oracle Developer Studio (Oracle Solaris Studio) 12.x 32#####
make test-all ##### failure #####
(##### r61515 #####)

1) Failure:
TestLazyEnumerator#test_each_cons_limit [/XXXXX/test/ruby/test_lazy_enumerator.rb:548]:
<[[1, 2], [2, 3]]> expected but was
<[[2, 3], [2, 3]]>.

2) Failure:
TestProc#test_bound_parameters [/XXXXX/test/ruby/test_proc.rb:1184]:
<[:rest]]> expected but was
<[]>.

3) Failure:
TestEnumerator#test_cons [/XXXXX/test/ruby/test_enumerator.rb:118]:
<[[1, 2, 3],
[2, 3, 4],
[3, 4, 5],
[4, 5, 6],
[5, 6, 7],
[6, 7, 8],
[7, 8, 9],
[8, 9, 10]]> expected but was
<[[8, 9, 10],
[8, 9, 10],
[8, 9, 10],
[8, 9, 10],
[8, 9, 10],
[8, 9, 10],
[8, 9, 10],
[8, 9, 10]]>.

4) Failure:
TestEnumerator#test_slice [/XXXXX/test/ruby/test_enumerator.rb:113]:
<[[1, 2, 3], [4, 5, 6], [7, 8, 9], [10]]> expected but was
<[[10], [10], [10], [10]]>.

#####

6) Failure:
TestProc#test_arity2 [/XXXXX/test/ruby/test_proc.rb:439]:
<-1> expected but was
<0>.

7) Failure:
TestLazyEnumerator#test_each_slice_limit [/XXXXX/test/ruby/test_lazy_enumerator.rb:554]:
<[[1, 2], [3, 4]]> expected but was
<[[3, 4], [3, 4]]>.

#####

[illegible]

Revision 2adf28159308bd09fdaa92c019ce7ed15b7c94e4 - 12/30/2017 04:38 PM - ngoto (Naohisa Goto)

- `internal.h` (`struct vm_ifunc_argc`): Bit fields are unsigned by default. For storing negative values to bit fields, they must be declared as signed int. Fix multiple test failure observed by 32-bit binaries compiled with Oracle Developer Studio (Solaris Studio) 12.x on Solaris 10 on sparc architecture. [Bug #14260]

Revision 2adf2815 - 12/30/2017 04:38 PM - ngoto (Naohisa Goto)

- `internal.h` (`struct vm_ifunc_argc`): Bit fields are unsigned by default. For storing negative values to bit fields, they must be declared as signed int. Fix multiple test failure observed by 32-bit binaries compiled with Oracle Developer Studio (Solaris Studio) 12.x on Solaris 10 on sparc architecture. [Bug #14260]

Revision 70c59ba555d80e0d7f795c20cfa4974d822f29f6 - 01/07/2018 10:25 PM - naruse (Yui NARUSE)

```
* internal.h (struct vm_ifunc_argc): Bit fields are unsigned by default.
For storing negative values to bit fields, they must be declated as
signed int. Fix multiple test failure observed by 32-bit binaries
```

```
compiled with Oracle Developer Studio (Solaris Studio) 12.x on
Solaris 10 on sparc architecture. [Bug #14260]
```

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/branches/ruby_2_5@61660 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision 70c59ba5 - 01/07/2018 10:25 PM - naruse (Yui NARUSE)

merge revision(s) 61518: [Backport #14260]

```
bit fields treating negative values should be declared as signed int
```

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* internal.h (struct vm_ifunc_argc): Bit fields are unsigned by default.
For storing negative values to bit fields, they must be declared as
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git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/branches/ruby_2_5@61660 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

History

#1 - 12/30/2017 04:38 PM - ngoto (Naohisa Goto)

- Status changed from Open to Closed

Applied in changeset trunk|r61518.

bit fields treating negative values should be declared as signed int

- internal.h (struct vm_ifunc_argc): Bit fields are unsigned by default. For storing negative values to bit fields, they must be declared as signed int. Fix multiple test failure observed by 32-bit binaries compiled with Oracle Developer Studio (Solaris Studio) 12.x on Solaris 10 on sparc architecture. [Bug [#14260](#)]

#2 - 12/31/2017 11:46 AM - nagachika (Tomoyuki Chikanaga)

- Backport changed from 2.3: UNKNOWN, 2.4: UNKNOWN, 2.5: UNKNOWN to 2.3: DONTNEED, 2.4: DONTNEED, 2.5: REQUIRED

bit field r59358 (2017-07-18) 2.5 REQUIRED

#3 - 12/31/2017 01:22 PM - shyouhei (Shyouhei Urabe)

unsigned int C

C

#4 - 12/31/2017 04:28 PM - ngoto (Naohisa Goto)

unsigned int C

C

implementation-defined

C99 6.7.2.1
http://en.cppreference.com/w/c/language/bit_field

Oracle Solaris Studio IBM int unsigned

Oracle: <https://docs.oracle.com/cd/E19205-01/820-1209/bjavo/index.html>

IBM: https://www.ibm.com/support/knowledgecenter/en/SSQ2R2_8.5.1/com.ibm.tpf.toolkit.compilers.doc/ref/langref_zos/clrc03defbitf.htm

GCC signed

<https://gcc.gnu.org/onlinedocs/gcc-5.2.0/gcc/Structures-unions-enumerations-and-bit-fields-implementation.html>

~~~~~ GCC ~ Oracle Developer Studio ~~~~~

**#5 - 01/02/2018 06:59 AM - shyouhei (Shyouhei Urabe)**

ngoto (Naohisa Goto) wrote:

~~~~~ unsigned int ~~~~~C~~~~~

~~~~~C~~~~~

~~~~~  
~~~~~ implementation-defined ~~~~~

~~~~~C99 ~ 6.7.2.1 ~~~~~  
~~~~~: [http://en.cppreference.com/w/c/language/bit\\_field](http://en.cppreference.com/w/c/language/bit_field)

Oracle Solaris Studio ~ IBM ~~~~~int~ unsigned ~~~~~

Oracle: <https://docs.oracle.com/cd/E19205-01/820-1209/bjavo/index.html>

IBM: [https://www.ibm.com/support/knowledgecenter/en/SSQ2R2\\_8.5.1/com.ibm.tpf.toolkit.compilers.doc/ref/langref\\_zos/clrc03defbitf.htm](https://www.ibm.com/support/knowledgecenter/en/SSQ2R2_8.5.1/com.ibm.tpf.toolkit.compilers.doc/ref/langref_zos/clrc03defbitf.htm)

~~~~GCC~ signed ~~~~~  
<https://gcc.gnu.org/onlinedocs/gcc-5.2.0/gcc/Structures-unions-enumerations-and-bit-fields-implementation.html>

~~~~~ GCC ~ Oracle Developer Studio ~~~~~

~~~~~int~~~~~signed~unsigned~~~~~

#6 - 01/07/2018 10:25 PM - naruse (Yui NARUSE)

- Backport changed from 2.3: DONTNEED, 2.4: DONTNEED, 2.5: REQUIRED to 2.3: DONTNEED, 2.4: DONTNEED, 2.5: DONE

ruby_2_5 r61660 merged revision(s) 61518.