

## Ruby trunk - 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)

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

#### Description

##### r59358 ##### sparc Solaris 10 Oracle Developer Studio (Oracle Solaris Studio) 12.x 32-bit  
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]]>.
```

#####



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 61660 - 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

```
* internal.h (struct vm_ifunc_argc): Bit fields are unsigned by default.
For storing nagative 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]
```

### History

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

- Status changed from Open to Closed

Applied in changeset [trunk|r61518](#).

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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 nagative 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]

#### #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

?

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

unsigned int

?

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/bjajo/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

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

ngoto (Naohisa Goto) wrote:

int 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/bjajo/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.