

## Audacious - Bug #725

### [xsf] Many warnings with GCC 7

June 07, 2017 02:57 - John Lindgren

<b>Status:</b> Closed	<b>Start date:</b> June 07, 2017
<b>Priority:</b> Minor	<b>Due date:</b>
<b>Assignee:</b>	<b>% Done:</b> 100%
<b>Category:</b> plugins/xsf	<b>Estimated time:</b> 0.00 hour
<b>Target version:</b> 3.9	
<b>Affects version:</b>	

**Description**

The xsf plugin generates many warnings with GCC 7.1.1, such as:

```
desmume/MMU.cc: In function 'void MMU_clearMem()':
desmume/MMU.cc:310:43: warning: 'memset' used with length equal to number of elements without multiplication by element size [-Wmemset-elt-size]
    memset(ARM9Mem.blank_memory, 0, 0x020000);
    ^
```

In file included from desmume/armcpu.h:26:0,  
from desmume/cp15.h:25,  
from desmume/arm\_instructions.cc:25:  
desmume/arm\_instructions.cc: In function 'u32 OP\_SBC\_S\_LSL\_IMM(armcpu\_t\*)':  
desmume/arm\_instructions.cc:1333:46: warning: '~' on an expression of type bool [-Wbool-operation]  
 cpu->CPSR.bits.V = SIGNED\_UNDERFLOW(v, (!cpu->CPSR.bits.C), tmp) | SIGNED\_UNDERFLOW(tmp, shi  
ft\_op, cpu->R[REG\_POS(i,12)]);\br/>desmume/bits.h:38:23: note: in definition of macro 'BIT31'  
#define BIT31(i) ((i)>>31)  
 ^

desmume/arm\_instructions.cc:1333:25: note: in expansion of macro 'SIGNED\_UNDERFLOW'  
 cpu->CPSR.bits.V = SIGNED\_UNDERFLOW(v, (!cpu->CPSR.bits.C), tmp) | SIGNED\_UNDERFLOW(tmp, shi  
ft\_op, cpu->R[REG\_POS(i,12)]);\br/> ^~~~~~

desmume/arm\_instructions.cc:1343:6: note: in expansion of macro 'OP\_SBCS'  
 OP\_SBCS(2, 4);  
 ^~~~~~

desmume/arm\_instructions.cc:1333:46: note: did you mean to use logical not ('!')?

These look like legitimate problems, and I'm not familiar enough with the code to implement a fix. We also have a very old fork of desmume while upstream has moved on (<https://github.com/TASVideos/desmume>).

[Ariadne Conill](#): Thoughts? Do you have any interest in updating this plugin or at least fixing the warnings?

### History

#1 - June 07, 2017 03:52 - John Lindgren

- Status changed from New to Closed
- Assignee deleted (Ariadne Conill)
- Target version set to 3.9
- % Done changed from 0 to 100

Never mind, I implemented some minimal/hopefully safe fixes.