

Audacious - Bug #725

[xsf] Many warnings with GCC 7

June 07, 2017 02:57 - John Lindgren

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

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)]); \
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)]); \
                        ^~~~~~
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>).

[William Pitcock](#): 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 (William Pitcock)
- Target version set to 3.9
- % Done changed from 0 to 100

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