Audacious - Bug #326

Buffer size too small for HVSC songlengths db

July 30, 2013 14:20 - Matti Tiainen

Status: Closed
Priority: Trivial
Assignee: plugins/sid
Category: plugins/sid
Target version: 3.4.1
Affects version: 3.4

Start date: July 30, 2013
Due date:
% Done: 100%
Estimated time: 0.00 hour

Description
When enabling HVSC songlength db support in the SID plugin code, I noticed that the current XS_BUF_SIZE is too small for some really long lines in the db, and the song lengths are not read correctly and/or the sids won't play (can't remember exactly).

The attached patch fixes the issue.

History
#1 - July 31, 2013 20:32 - John Lindgren
What type of line are we talking about here, a line of text? 1024 bytes seems like it should be more than long enough.

#2 - July 31, 2013 20:49 - Michael Schwendt
$ wc -L Songlengths.txt
1312 Songlengths.txt

It's a INI-style database file with key=value pairs, and since some sidtune files contain lots of sub-songs (or sound effects), the "value" can get rather large.

#3 - July 31, 2013 21:02 - Matti Tiainen
Ok, I tried to reproduce the issue again with the original XS_BUF_SIZE 1024, but could not actually trigger any other problems than this warning in audacious log:

Invalid MD5-hash in SongLengthDB file '/Volumes/Shared/C64Music/DOCUMENTS/Songlengths.txt' line #17712!
Invalid MD5-hash in SongLengthDB file '/Volumes/Shared/C64Music/DOCUMENTS/Songlengths.txt' line #17715!

Which is caused by the songlengths for these SIDS:

;/MUSICIANS/B/Bond_Alan/Randomly_generated_music_2_BASIC.sid
;/MUSICIANS/B/Bond_Alan/Randomly_generated_music_BASIC.sid

So probably my memory fails and I just wanted to fix the warnings tweaking SID plugin (I did some initial quick and dirty port of the SID plugin for sidplayfp before the "official" support arrived) or the issue got fixed some other way.

Sorry for the noise :P
You may have misinterpreted my previous comment. A buffer size of 1024 is not enough, because the two longest lines in the file are 1312 characters plus end-of-line delimiters. The two entries you've mentioned are exactly those very long lines.

```
; /MUSICIANS/B/Bond_Alan/Randomly_generated_music_2_BASIC.sid
24a19792bb845f93dac18ccd94d66476=0:31 0:50 1:02 0:45 0:57 0:50 0:45 0:46 1:09 1:04 1:04 0:43 0:43 0:46 0:31 1:15 0:50 0:54 1:09 1:04 1:09
1:02 0:58 1:04 0:39 0:57 0:46 0:46 0:43 0:52 0:36 1:04 0:43 0:45 0:59 1:04 0:43 0:58 0:59 0:46 0:52 0:58 0:58 0:52 0:39 0:50 0:50 0:58 0:46 0:41
0:39 0:45 1:02 0:58 1:02 0:52 0:46 0:57 0:54 0:52 0:39 0:14 0:46 0:50 0:39 1:04 0:52 0:52 0:43 0:50 0:58 0:50 0:45 0:37 0:57 0:46 0:14 0:58 0:58 0:19
1:02 0:54 0:39 0:31 1:09 0:43 0:52 1:15 0:50 0:52 0:43 0:14 0:10 1:09 0:59 0:43 0:45 0:45 0:31 0:45 0:10 0:58 0:57 0:41 0:57 0:46 0:39 1:04 0:57 1:09
0:57 1:09 0:45 0:43 0:43 0:50 0:50 0:57 1:09 0:14 0:02 0:52 0:50 0:58 0:58 0:45 0:45 0:46 0:14 0:09 0:41 0:57 0:43 1:15 1:09 0:45 0:45 0:31 0:52
0:57 0:50 0:46 0:46 0:46 0:50 0:41 0:43 1:04 0:10 0:10 0:36 0:41 0:57 0:52 0:14 0:43 0:43 0:52 0:58 0:52 0:58 1:15 0:39 0:35 0:43 0:54 0:46 0:50
0:52 0:52 0:46 0:43 0:43 0:50 0:57 1:09 0:35 0:43 1:08 0:10 0:08 0:57 0:58 0:54 0:31 0:35 0:45 0:50 0:45 0:58 0:54 0:10 0:45 0:43 0:54 0:39 0:58 0:50
0:58 0:57 0:52 0:39 1:07 0:52 0:52 0:25 0:45 0:58 0:59 0:57 0:58 1:04 0:35 0:43 0:35 0:46 0:50 1:09 0:57 1:04 0:52 0:45 0:43 1:15 0:39 0:39
0:45 0:52 0:57 0:41 0:52 0:57 0:45 0:43 1:02 0:43 0:50 0:50 0:57 1:04 0:35 0:50 0:35 0:46 0:50 0:57 0:41 0:39 0:39 0:58 0:41 1:09 0:57 1:02 1:07
0:39 1:09 0:46
```