

## Web Audio Evaluation Tool - Feature #1498

### Add bit depth warning to test creator

2015-12-16 02:45 PM - Nicholas Jillings

<b>Status:</b>	Resolved	<b>Start date:</b>	2015-12-16
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>		<b>% Done:</b>	0%
<b>Category:</b>		<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>			

#### Description

Have the test creator inform the user that, when they use a file with a bit depth above 16-bit, that Firefox may not work (and in the future that Firefox will quantise the information).

#### History

##### #1 - 2016-01-19 10:06 AM - Nicholas Jillings

- Status changed from New to Resolved

Not needed now as by default all WAV files pass through our WAVE decoder first then through the browser decoders if failed.

##### #2 - 2016-01-19 10:16 AM - Brecht De Man

Sorry, I'm not sure I understand. My thinking was that if a researcher is conducting a test with 32 bit wave files (let's say he's trying to establish whether some people can hear the difference between 32 bit recordings and 16 bit recordings) he gets a warning about his files being requantised if he's using Firefox.

You are saying that this requantising now happens, without the user being made aware, no? I would say a warning about this when using Firefox is still useful. Perhaps I misunderstood.

##### #3 - 2016-01-19 01:20 PM - Nicholas Jillings

The web audio API has its data stored as 32-bit normalised floats, all input data must go up to that. However the 'decoder' is browser based and Firefox does not like performing the conversion if the WAVE is a 32-bit float as well. The WAVE.js module simply takes the incoming binary level data and converts it into the float32array that the web audio API needs. No quantising at all.

##### #4 - 2016-01-19 01:51 PM - Brecht De Man

Got it, thanks. That's really good then.