

coreboot - Feature #74

Lenovo X200 Mute button mutes with the EC, not in software

09/19/2016 09:18 AM - Nathaniel Roach

Status:	New	Start date:	09/19/2016
Priority:	Normal	Due date:	
Assignee:		% Done:	0%
Category:		Estimated time:	0.00 hour
Target version:			
Description			
This has the side effect of only muting the speakers, and is not toggleable.			
Audio playing; press mute; muted audio (OS shows volume on still); press mute; still muted audio;			
This was (in the Lenovo BIOS) toggleable with an ACPI cmdline tweak to the kernel. [1] However when I tried this a while ago it didn't work (I presume that CB doesn't replicate this behavior).			
[1] https://bugzilla.kernel.org/show_bug.cgi?id=13934			

History

#1 - 11/28/2016 01:06 AM - Ix r

The behaviour should be configurable. There are 2 bits reserved to configure this behaviour. See bit 5-6 (count from 0) in 0x3 of the EC memory. You can change those bits using ectool under coreboot.git/util/ectool.

```
./ectool -d  
dumps the whole memory (a special buffer on the EC).
```

```
Read out the byte on 0x3 and play a little bit with bit 5-6  
./ectools -w 0x3 -z 0xXX
```

#2 - 05/14/2017 11:01 AM - Nico Huber

- *Tracker changed from Bug to Feature*

#3 - 08/10/2017 08:38 AM - Arthur Heymans

So do we implement an nvram parameter for this (so it is static and needs a reset/s3 cycle for it to be applied) or an ACPI method to change it during runtime with the acpi_call module or both?

#4 - 08/17/2017 02:26 PM - Patrick Rudolph

The thinkpad_acpi kernel module knows about the "hardware mute" and should be able to handle it, as it's not coreboot specific. I'll do some tests on T500.