

Re: ALC883 recording troubles...

Source: <http://linux.derkeiler.com/Mailing-Lists/Kernel/2008-06/msg04963.html>

- *From:* Takashi Iwai <tiwai@xxxxxxx>
 - *Date:* Thu, 12 Jun 2008 12:45:16 +0200
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At Wed, 11 Jun 2008 22:37:49 +0100,
Daniel J Blueman wrote:

On Wed, Jun 11, 2008 at 8:00 PM, Daniel J Blueman
<daniel.blueman@xxxxxxxxxx> wrote:

On Tue, Jun 10, 2008 at 6:59 AM, Takashi Iwai <tiwai@xxxxxxx> wrote:

At Mon, 9 Jun 2008 20:59:00 +0100,
Daniel J Blueman wrote:

Hi Takashi-san,

I'm experiencing DC offset with the
microphone on 2.6.24 (Ubuntu 8.04
LTS x86-64). I can see on Audacity that the
DC offset that varies with
the recording capture level.

Could you elaborate? The mic bias level could be changed
via the pin
control value. Usually, it's set as VREF 80%.

When the recording->capture level is set to 0, the mic has no DC
offset as expected. Maxing the recording->capture level, the mic input
is saturated, in between, we see a linear connection.

Plus, the mixer playback->mic-boost
muting enables/disables mic-boost in
recording.

This is a known bug in alsalib mixer abstraction. No kernel
issue.

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It feels like the ALC883 pins aren't configured quite right. The mobo is an Asus P5E-VM with current BIOS [1]

What's the routine to debug this? Would it help to install windows, dump the register space and compare?

You can find *.INI file that contains the default pin configuration in Windows. This might be useful in the case BIOS is broken but Windows does a black magic.

That'll be these defaults stashed in the INF file [2]. Let me know if it's not what you expected and I'll publish the complete INF file.

Anyway, please run `alsa-info.sh` with `--no-upload` option and show the generated file here. It contains the codec information and mixer setup.
<http://hg.alsa-project.org/alsa/raw-file/tip/alsa-info.sh>

See [3].

Also, you can adjust the pin setting on the fly via `hda-verb` utility below:
<http://ftp.suse.com/pub/people/tiwai/misc/hda-verb-0.2.tar.bz2>

Don't forget to build `snd-hda-intel` module with `CONFIG_SND_HDA_HWDEP=y` to use this command.

I'll give this a shot if I get time.

Looking at the datasheet and ALSA report, changing the front mic node id also affects capturing from the (rear) mic input.

Depends on the hardware implementation. But, usually, no, different

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pin widgets are assigned for front and mic jacks.

ftp://66.104.77.130/pc/audio/ALC883_DataSheet_1.3.pdf

We get the "hda_codec: Unknown model for ALC883, trying auto-probe from BIOS..." kernel message, so we may need to tweak `pci/hda/patch_realtek.c`.

Note that this is no error but information. The driver has preset models for known devices and use the static configuration table for such devices. For other devices, the driver just relies on BIOS setup.

Also, I can reproduce the problem the with HD and legacy front-panel audio settings in the BIOS. Do you know a way to dump eg the pin configuration in windows or other useful state, so I can compare with all the possible node ID configuration values?

Sorry, no, I've not booted Windows over years :)

Takashi

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