Hello folks. This is a quick tutorial for who are having problems with swapped surround sound problems using realtek alc892.

By default Linux Kernel/ALSA does not support this chipset correctly. It swaps the rear speakers, the side speakers and the LFE/center speakers as well. In other words, only the front speakers works right.

Using the "automated" realtek official driver installation leaves you to a no-sound and no hardware sound support.

So, how to install the correctly and working drivers:

1. Visit "http://www.realtek.com.tw/downloads/downloadsCheck.aspx?Langid=1&PNid=14&PFid=24&Level=4&Conn=3&DownTypeID=3&GetDown=false" and download the lastest Unix/Linux driver. In this example,

2. Open terminal.

3. Type: "sudo su" and enter root password.

4. Change to the folder where you downloaded the driver (ie: "cd ~/Downloads")

4. Type: "tar -xjf LinuxPkg\_XXX.tar.bz2" , where XXX is the version of your downloaded driver (as sown in filename, example: "tar -xjf LinuxPkg\_5.17rc13.tar.bz2").

5. Type: "cd realtek-linux-audiopack-YYY" , where YYY is the version of your downloaded driver (as shown if folder name, example: "cd realtek-linux-audiopack-5.17").

6. Type "tar -xjf alsa-driver-ZZZ.tar.bz2" , where ZZZ is the version corresponding to the filename (example: "tar -xjf alsa-driver-1.0.25-5.17rc13.tar.bz2").

7. Type "cd alsa-driver-WWW" , where WWW is the version corresponding to the folder name (example: "cd alsa-driver-1.0.25").

8. Type "./configure --with-cards=hda-intel"

9. Type "make"

10. Type "make install"

11. Reboot

12. Test the audio output. You can do this by right-clicking on you speaker icon and selecting sound preferences -> hardware -> select the desired audio output -> select the desired surround profile (ie: Analog Surround 5.1 Output + Analog Stereo Input) -> Test Speakers. During the installation the sound level can be mutted, check out in the slider if it is not mute!

I hope it helps. It took a long time to reach this. This tutorial probably also applies to:

ALC100,100P
ALC200,200P
ALC650D
ALC650E
ALC650F
ALC650
ALC655
ALC653
ALC658
ALC658D
ALC850
ALC101
ALC202
ALC250
ALC203
ALC221
ALC260
ALC262
ALC267
ALC268
ALC259
ALC269
ALC270
ALC271X
ALC272
ALC273
ALC275
ALC276
ALC280
ALC281X
ALC282
ALC283
ALC290
ALC656
ALC660
ALC660VD
ALC661
ALC662
ALC663
ALC665
ALC668
ALC670
ALC671
ALC672
ALC680
ALC861
ALC861VD
ALC880
ALC882
ALC883
ALC885
ALC888
ALC889A
ALC898
ALC892
ALC899
ALC900
ALC1150
ALC1200