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