



NOTE 42

ASI58xx/ASI57xx/ASI67xx warm boot fail Linux

Introduction

ASI581x soundcards prior to hardware revision D5 and ASI57/67xx hardware revision H0 could sometimes fail to be recognized after a computer reset/reboot when running under Linux.

A workaround exists and involves unloading the drivers on shutdown. This is done automatically on Windows, but Linux distributions do not unload drivers on shutdown, so a script needs to be added to the shutdown process to implement this.

A permanent solution requires re-programming the card's bootloader which can only be done in AudioScience's manufacturing facilities. We offer customers who are experiencing this issue the opportunity to ship the affected cards to us for reprogramming free of charge.

Workaround for Linux systems

Add a script to your shutdown process containing either ``rmmod asihpi`` or ``rmmod snd-asihpi`` depending if you are using the HPI or ALSA+HPI driver respectively. See next section for detailed information on how to do this in CentOS and Ubuntu.

Detailed instructions:

Works for CentOS7 and Ubuntu 18.04 LTS (or 16.04 LTS)

Create the following file:

```
/usr/local/sbin/asihpi_unload.sh
```

with the following content:

```
#!/bin/sh
lsmod | grep -q "^snd_asihpi" && rmmod snd-asihpi
lsmod | grep -q "^asihpi" && rmmod asihpi
```

and make it executable with:

```
chmod a+x /usr/local/sbin/asihpi_unload.sh
```

Create the following file:

```
/etc/systemd/system/asihpi_unload.service
```

with the following content:

```
[Unit]
Description=Unload asihpi and snd-asihpi drivers on shutdown or reboot
DefaultDependencies=no
After=final.target

[Service]
Type=oneshot
ExecStart=/usr/local/sbin/asihpi_unload.sh
```

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```
[Install]  
WantedBy=final.target
```

Enable it with:
`systemctl daemon-reload`

```
systemctl enable asihpi_unload.service
```

Tech Support

If at any point you need help with this information please contact our Technical Support department at 585-271-8870 between the hours of 9AM and 5PM EST or by email at support@audioscience.com

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