

REACTIVE ENVIRONMENT FOR NETWORK MUSICAL PERFORMANCE

AUTOMATIC INSTALLATION INSTRUCTIONS

Step 1: Run our installation script

1. In a terminal, go to your '**RENMP**' folder (where you cloned our git repository) and type the following command:

```
# chmod a+x install.sh
# sudo ./install.sh
```

Step 2: Configure JACK to use realtime scheduling

1. If the file '**/etc/security/limits.d/99-realtime.conf**' doesn't already exist, create it file by typing the following command in a terminal:

```
# sudo gedit /etc/security/limits.d/99-realtime.conf
```

2. Add the following two lines to that file:

```
@audio      - rtprio 99
@audio      - memlock unlimited
@audio      - nice   -15
```

3. In a terminal, type the following command:

```
# sudo groupadd audio
# sudo usermod -G audio yourUserID
# sudo adduser yourUserID audio
```

4. Log out, then log in again.

Step 3: Configure SuperCollider to use SwingOSC

1. If the directory '**/home/yourUserID/.config/SuperCollider**' doesn't already exist, create it by typing the following command into a terminal:

```
# mkdir /home/yourUserID/.config/SuperCollider
```

2. In a terminal, type the following command:

```
# gedit /home/yourUserID/.config/SuperCollider/startup.scd
```

3. Add the following lines to the file:

```
GUI.swing;  
SwingOSC.java = "/usr/lib/jvm/java-8-oracle/jre/bin/java";  
SwingOSC.program = "/usr/bin/SwingOSC.jar";  
g = SwingOSC.default;  
g.boot;  
q = q ? ();  
  
ShutDown.run({  
    SwingOSC.default.quit;  
});  
  
Server.default=l=Server.local;  
l.boot;
```

Step 4: Disable gspca_kinect module

Edit the `"/etc/modprobe.d/blacklist.conf"` file by running the following command in a terminal:

```
# /etc/modprobe.d/blacklist.conf
```

Add the following line to the end of the file:

```
blacklist gspca_kinect
```

(Note: this change will not take effect until you reboot your computer)

Step 5: Reboot computer and select low-latency kernel

In order to use the low-latency kernel that was installed , you have to reboot your computer and select the **linux-lowlatency** kernel from the **GRUB menu**.

(Note: if you don't see the linux-lowlatency kernel in GRUB, select **"Previous linux entries"** instead. You should be able to the **linux-lowlatency** in the list that follows).

That is all!

To begin using our Reactive Environment for Network Musical Performance, please read "User Manual.pdf"