

# REACTIVE ENVIRONMENT FOR NETWORK MUSIC PERFORMANCE

## AUTOMATIC INSTALLATION INSTRUCTIONS

### Step 1: Run our installation script

1. In the directory where you have downloaded and unzipped our package, type the following commands in a terminal:

```
# cd reactive_environment_for_NMP
# 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 NMP, please read "User Manual.pdf"**