## POP Code, Complete

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| /etc/rc.local |
| /usr/local/bin/pop\_init.sh  exit 0 |

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| /usr/local/bin/pop\_init.sh |
| This script is executed only one time at system boot and launches pop\_loop.sh |
| #!/bin/sh  set -x  # Kernel 4.3  # 408 - LED  # 409 - S1 – lower position  # 410 - S2 – upper position  # 411 - B1 RED BUTTON-> RESET/SHUTDOWN  # 412 - B2 BLACK BUTTON  echo 408 > /sys/class/gpio/export  echo out > /sys/class/gpio/gpio408/direction  echo 1 > /sys/class/gpio/gpio408/value  echo 409 > /sys/class/gpio/export  echo in > /sys/class/gpio/gpio409/direction  echo 410 > /sys/class/gpio/export  echo in > /sys/class/gpio/gpio409/direction  echo 411 > /sys/class/gpio/export  echo in > /sys/class/gpio/gpio409/direction  echo 412 > /sys/class/gpio/export  echo in > /sys/class/gpio/gpio409/direction  v409=`cat /sys/class/gpio/gpio409/value`  v410=`cat /sys/class/gpio/gpio410/value`  echo $v409  echo $v410  # 408=1 409=0 -> Mantenimiento, switch abajo  # 408=1 409=1 -> Switch enmedio  # 408=0 409=1 -> Switch arriba  if [ "$v409" -eq 1 ] && [ "$v410" -eq 0 ]  then  mode=mnt  elif [ "$v409" -eq 1 ] && [ "$v410" -eq 1 ]  then  mode=p2  elif [ "$v409" -eq 0 ] && [ "$v410" -eq 1 ]  then  mode=p1  fi  echo $mode  if [ "$mode" != "mnt" ]  then  echo "iface wlan0 inet manual" > /etc/network/interfaces  else  :> /etc/network/interfaces  fi  /usr/local/bin/pop\_loop.sh $mode &  if [ "$mode" = "p1" ]  then  pop\_script="pop\_p1.sh"  fi  if [ "$mode" = "p2" ]  then  pop\_script="pop\_p2.sh"  fi  if [ "$mode" = "mnt" ]  then  pop\_script="pop\_mnt.sh"  fi  date >> /var/log/pop.log  echo 1 > /sys/class/gpio/gpio408/value  chmod 777 /sys/class/gpio/gpio408/value  /sbin/runuser -l C.H.I.P. /home/C.H.I.P./${pop\_script} >> /var/log/pop.log 2>&1 & |

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| /usr/local/bin/pop\_loop.sh |
| This is the main loop that watches for buttons changes, switches between effects and resets/shuts down the unit |
| #!/bin/sh  # Kernel 4.3  # 408 - LED  # 409 - S1  # 410 - S2  # 411 - B1 RED BUTTON -> RESET/SHUTDOWN  # 412 – B2 BLACK BUTTON  mode=$1  mode\_orig=$mode  while [ 1 ]  do  sleep 1  v411=`cat /sys/class/gpio/gpio411/value`  v409=`cat /sys/class/gpio/gpio409/value`  v410=`cat /sys/class/gpio/gpio410/value`  v412=`cat /sys/class/gpio/gpio412/value`  # echo $v411  if [ $v411 -eq 1 ]  then  amixer -c 0 cset numid=7 off  sleep 5  v411=`cat /sys/class/gpio/gpio411/value`  if [ $v411 -eq 1 ]  then  shutdown -h 0  else  shutdown -r 0  fi  while [ 1 ]  do  sleep 1  echo 1 > /sys/class/gpio/gpio408/value  sleep 1  echo 0 > /sys/class/gpio/gpio408/value  done  fi  if [ $v412 -eq 1 ]  then  # Black button pressed  echo "Black button " >> /var/log/pop.log  runuser -l C.H.I.P. /home/C.H.I.P./autoovation/autoovation.sh 20 20 &  fi  if [ "$v409" -eq 1 ] && [ "$v410" -eq 0 ]  then  mode=mnt  elif [ "$v409" -eq 1 ] && [ "$v410" -eq 1 ]  then  mode=p2  elif [ "$v409" -eq 0 ] && [ "$v410" -eq 1 ]  then  mode=p1  fi  if [ "$mode" = "p1" ]  then  pop\_script="pop\_p1.sh"  fi  if [ "$mode" = "p2" ]  then  pop\_script="pop\_p2.sh"  fi  if [ "$mode" = "mnt" ]  then  pop\_script="pop\_mnt.sh"  fi  if [ "$mode" != "$mode\_orig" ]  then  mode\_orig=$mode  echo 1 > /sys/class/gpio/gpio408/value  killall jackd  killall mod-host  killall a2jmidi\_bridge  pkill -f ".\*autoovation.\*"  /sbin/runuser -l C.H.I.P. /home/C.H.I.P./${pop\_script} >> /var/log/pop.log 2>&1 &  fi  done |

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| /usr/local/bin/led\_off.sh |
| #!/bin/sh  echo 1 > /sys/class/gpio/gpio408/value |

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| /usr/local/bin/led\_on.sh |
| #!/bin/sh  echo 0 > /sys/class/gpio/gpio408/value |

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| /home/C.H.I.P./pop\_p1.sh |
| This script is launched when mode 1 (switch in upper position) is chosen |
| #!/bin/sh  sudo rmmod snd\_usb\_audio  sudo rmmod snd\_usbmidi\_lib  sudo rmmod snd\_rawmidi  sudo insmod ./snd-seq-device.ko  sudo insmod ./snd-seq.ko  sudo insmod ./snd-rawmidi.ko  sudo insmod ./snd-seq-midi-event.ko  sudo insmod ./snd-seq-midi.ko  sudo insmod ./snd-usbmidi-lib.ko  sudo insmod ./snd-usb-audio.ko  amixer -c 0 cset numid=7 on  sleep 4  /usr/local/bin/jackd -P70 -R -t2000 -dalsa -dhw:0 -r48000 -p256 -n3 -S -s -i 1 -o 1 &  sleep 2  a2jmidi\_bridge midi\_controller &  sleep 2  aconnect 20:0 129:0  aconnect 20:0 128:0  cd /home/C.H.I.P./lv2  /usr/local/bin/led\_on.sh  ./mod-host.sh delay |

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| /home/C.H.I.P./pop\_p2.sh |
| This script is launched when mode 2 (switch in middle position) is chosen |
| #!/bin/sh  sudo rmmod snd\_usb\_audio  sudo rmmod snd\_usbmidi\_lib  sudo rmmod snd\_rawmidi  sudo insmod ./snd-seq-device.ko  sudo insmod ./snd-seq.ko  sudo insmod ./snd-rawmidi.ko  sudo insmod ./snd-seq-midi-event.ko  sudo insmod ./snd-seq-midi.ko  sudo insmod ./snd-usbmidi-lib.ko  sudo insmod ./snd-usb-audio.ko  amixer -c 0 cset numid=7 on  sleep 4  /usr/local/bin/jackd -P70 -R -t2000 -dalsa -dhw:0 -r48000 -p256 -n3 -S -s -i 1 -o 1 &  #/usr/local/bin/jackd -R -t1000 -dalsa -dhw:0 -r48000 -p512 -n2 -S -s -i 1 -o 1 &  sleep 2  a2jmidi\_bridge midi\_controller &  sleep 2  aconnect 20:0 129:0  aconnect 20:0 128:0  cd /home/C.H.I.P./lv2  /usr/local/bin/led\_on.sh  ./mod-host.sh compressor |

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| /home/C.H.I.P./pop\_mnt.sh |
| This script is launched when mode MNT (switch in lower position) is chosen |
| #!/bin/sh  sudo rmmod snd\_usb\_audio  sudo rmmod snd\_usbmidi\_lib  sudo rmmod snd\_rawmidi  sudo insmod ./snd-seq-device.ko  sudo insmod ./snd-seq.ko  sudo insmod ./snd-rawmidi.ko  sudo insmod ./snd-seq-midi-event.ko  sudo insmod ./snd-seq-midi.ko  sudo insmod ./snd-usbmidi-lib.ko  sudo insmod ./snd-usb-audio.ko  amixer -c 0 cset numid=7 on  sleep 4  /usr/local/bin/jackd -P70 -R -t2000 -dalsa -dhw:0 -r48000 -p256 -n3 -S -s -i 1 -o 1 &  #/usr/local/bin/jackd -R -t1000 -dalsa -dhw:0 -r48000 -p512 -n2 -S -s -i 1 -o 1 &  sleep 2  a2jmidi\_bridge midi\_controller &  sleep 2  aconnect 20:0 129:0  aconnect 20:0 128:0  cd /home/C.H.I.P./lv2  /usr/local/bin/led\_on.sh  ./mod-host.sh reverb |

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| /home/C.H.I.P./lv2/mod-host.sh |
| This script launches mod-host with the commands file given as an argument |
| #!/bin/sh  echo load commands\_$1.txt | mod-host -i |

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| /home/C.H.I.P./lv2/commands\_trem\_delay.txt |
| Commands file for delay+tremolo effect |
| add http://www.drowaudio.co.uk/audio/audio\_plugins/tremolo 0  add http://invadarecords.com/plugins/lv2/delay/mono 1  connect system:capture\_1 effect\_0:lv2\_audio\_in\_1  connect effect\_0:lv2\_audio\_out\_2 effect\_1:in  connect midi\_controller:capture mod-host:midi\_in  connect effect\_1:outL mod-host:monitor-in\_1  connect effect\_0:lv2\_audio\_out system:playback\_1  param\_set 1 delay1 0.2  param\_set 1 fb1 25  param\_set 0 rate 0.25  param\_set 0 depth 0.90  param\_set 0 shape 0.09  midi\_map 0 rate 0 16 0 1  midi\_map 0 depth 0 0 0 1  midi\_map 0 shape 0 17 0 1  midi\_map 1 delay1 0 2 0 2  midi\_map 1 delay2 0 3 0 2  midi\_map 1 fb1 0 18 0 133  midi\_map 1 fb2 0 19 0 133  midi\_map 1 vol1 0 4 0 100  midi\_map 1 vol2 0 5 0 100 |

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| /home/C.H.I.P./lv2/commands\_leslie.txt |
| Commands file for leslie effect |
| add http://drobilla.net/plugins/mda/Leslie 0  connect system:capture\_1 effect\_0:right\_in  connect midi\_controller:capture mod-host:midi\_in  connect effect\_0:right\_out mod-host:monitor-in\_1  param\_set 0 mode 1  param\_set 0 lo\_width 0.8  param\_set 0 speed 0.8  midi\_map 0 speed 0 16 0 1 |

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| /home/C.H.I.P./lv2/commands\_reverb.txt |
| Commands file for a reverb effect |
| add http://invadarecords.com/plugins/lv2/erreverb/mono 0  connect system:capture\_1 effect\_0:in  connect midi\_controller:capture mod-host:midi\_in  connect effect\_0:outL mod-host:monitor-in\_1  connect effect\_1:outR mod-host:monitor-in\_2  param\_set 0 roomHeight 10  midi\_map 0 roomHeight 0 0 3 30  midi\_map 0 roomWidth 0 1 3 100  midi\_map 0 roomLength 0 2 3 100  midi\_map 0 warmth 0 16 0 100  midi\_map 0 difussion 0 17 0 100 |