## POP Code, Complete

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| /etc/rc.local |
| /usr/local/bin/pop\_init.shexit 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/shset -x# Kernel 4.3# 408 - LED# 409 - S1 – lower position# 410 - S2 – upper position# 411 - B1 RED BUTTON-> RESET/SHUTDOWN# 412 - B2 BLACK BUTTONecho 408 > /sys/class/gpio/exportecho out > /sys/class/gpio/gpio408/directionecho 1 > /sys/class/gpio/gpio408/valueecho 409 > /sys/class/gpio/exportecho in > /sys/class/gpio/gpio409/directionecho 410 > /sys/class/gpio/exportecho in > /sys/class/gpio/gpio409/directionecho 411 > /sys/class/gpio/exportecho in > /sys/class/gpio/gpio409/directionecho 412 > /sys/class/gpio/exportecho in > /sys/class/gpio/gpio409/directionv409=`cat /sys/class/gpio/gpio409/value`v410=`cat /sys/class/gpio/gpio410/value`echo $v409echo $v410# 408=1 409=0 -> Mantenimiento, switch abajo# 408=1 409=1 -> Switch enmedio# 408=0 409=1 -> Switch arribaif [ "$v409" -eq 1 ] && [ "$v410" -eq 0 ]then mode=mntelif [ "$v409" -eq 1 ] && [ "$v410" -eq 1 ]then mode=p2elif [ "$v409" -eq 0 ] && [ "$v410" -eq 1 ]then mode=p1fi echo $modeif [ "$mode" != "mnt" ]then echo "iface wlan0 inet manual" > /etc/network/interfaceselse :> /etc/network/interfaces fi/usr/local/bin/pop\_loop.sh $mode &if [ "$mode" = "p1" ]then pop\_script="pop\_p1.sh"fiif [ "$mode" = "p2" ] then pop\_script="pop\_p2.sh"fiif [ "$mode" = "mnt" ]then pop\_script="pop\_mnt.sh"fidate >> /var/log/pop.logecho 1 > /sys/class/gpio/gpio408/valuechmod 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 BUTTONmode=$1mode\_orig=$modewhile [ 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 & fidone |

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

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| /usr/local/bin/led\_on.sh |
| #!/bin/shecho 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/shsudo rmmod snd\_usb\_audiosudo rmmod snd\_usbmidi\_libsudo rmmod snd\_rawmidisudo insmod ./snd-seq-device.kosudo insmod ./snd-seq.kosudo insmod ./snd-rawmidi.kosudo insmod ./snd-seq-midi-event.kosudo insmod ./snd-seq-midi.kosudo insmod ./snd-usbmidi-lib.kosudo insmod ./snd-usb-audio.koamixer -c 0 cset numid=7 onsleep 4/usr/local/bin/jackd -P70 -R -t2000 -dalsa -dhw:0 -r48000 -p256 -n3 -S -s -i 1 -o 1 &sleep 2a2jmidi\_bridge midi\_controller &sleep 2aconnect 20:0 129:0aconnect 20:0 128:0cd /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/shsudo rmmod snd\_usb\_audiosudo rmmod snd\_usbmidi\_libsudo rmmod snd\_rawmidisudo insmod ./snd-seq-device.kosudo insmod ./snd-seq.kosudo insmod ./snd-rawmidi.kosudo insmod ./snd-seq-midi-event.kosudo insmod ./snd-seq-midi.kosudo insmod ./snd-usbmidi-lib.kosudo insmod ./snd-usb-audio.koamixer -c 0 cset numid=7 onsleep 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 2a2jmidi\_bridge midi\_controller &sleep 2aconnect 20:0 129:0aconnect 20:0 128:0cd /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/shsudo rmmod snd\_usb\_audiosudo rmmod snd\_usbmidi\_libsudo rmmod snd\_rawmidisudo insmod ./snd-seq-device.kosudo insmod ./snd-seq.kosudo insmod ./snd-rawmidi.kosudo insmod ./snd-seq-midi-event.kosudo insmod ./snd-seq-midi.kosudo insmod ./snd-usbmidi-lib.kosudo insmod ./snd-usb-audio.koamixer -c 0 cset numid=7 onsleep 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 2a2jmidi\_bridge midi\_controller &sleep 2aconnect 20:0 129:0aconnect 20:0 128:0cd /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/shecho 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 0add http://invadarecords.com/plugins/lv2/delay/mono 1connect system:capture\_1 effect\_0:lv2\_audio\_in\_1connect effect\_0:lv2\_audio\_out\_2 effect\_1:inconnect midi\_controller:capture mod-host:midi\_inconnect effect\_1:outL mod-host:monitor-in\_1connect effect\_0:lv2\_audio\_out system:playback\_1param\_set 1 delay1 0.2param\_set 1 fb1 25param\_set 0 rate 0.25param\_set 0 depth 0.90param\_set 0 shape 0.09midi\_map 0 rate 0 16 0 1midi\_map 0 depth 0 0 0 1midi\_map 0 shape 0 17 0 1 midi\_map 1 delay1 0 2 0 2midi\_map 1 delay2 0 3 0 2midi\_map 1 fb1 0 18 0 133midi\_map 1 fb2 0 19 0 133midi\_map 1 vol1 0 4 0 100midi\_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 0connect system:capture\_1 effect\_0:right\_inconnect midi\_controller:capture mod-host:midi\_inconnect effect\_0:right\_out mod-host:monitor-in\_1param\_set 0 mode 1param\_set 0 lo\_width 0.8param\_set 0 speed 0.8midi\_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 0connect system:capture\_1 effect\_0:inconnect midi\_controller:capture mod-host:midi\_inconnect effect\_0:outL mod-host:monitor-in\_1connect effect\_1:outR mod-host:monitor-in\_2param\_set 0 roomHeight 10midi\_map 0 roomHeight 0 0 3 30midi\_map 0 roomWidth 0 1 3 100midi\_map 0 roomLength 0 2 3 100midi\_map 0 warmth 0 16 0 100midi\_map 0 difussion 0 17 0 100 |