**Autorun C++ program**

1. Make program full authorize

sudo chmod 777 /BIO/Program/MCC\_DAQ\_HATS/MCC\_DAQHATS

sudo chmod +x /BIO/Program/MCC\_DAQ\_HATS/MCC\_DAQHATS

1. Create the "rc.local" file. The rc.local file in Linux is a script that traditionally allowed system administrators to execute custom commands or scripts during the system startup process, specifically after all other standard init scripts had completed and the system had reached a multi-user runlevel.

sudo nano /etc/rc.local

#!/bin/bash

/BIO/Program/MCC\_DAQ\_HATS/MCC\_DAQHATS &

exit 0

1. Make "rc.local" full authorize

sudo chmod 777 /etc/rc.local

sudo chmod +x /etc/rc.local

1. Create the "rc-local.service" full authorize. The rc-local.service file in Linux is a systemd unit that provides compatibility for the traditional /etc/rc.local script.

sudo nano /etc/systemd/system/rc-local.service

[Unit]

Description=/etc/rc.local Compatibility

ConditionPathExists=/etc/rc.local

After=network-online.target

[Service]

Type=forking

ExecStart=/etc/rc.local start

TimeoutSec=0

StandardOutput=tty

RemainAfterExit=yes

SysVStartPriority=99

[Install]

WantedBy=multi-user.target

1. To enable "rc-local.service" autorun in Linux

sudo systemctl enable rc-local.service

1. To check "rc-local.service" status

sudo systemctl status rc-local.service

1. Manual start the service

sudo systemctl start rc-local.service

1. Manual stop the service

sudo systemctl stop rc-local.service