GPIB on Raspberry Pi

1. Open the Raspi Desktop. Install Linux Gpib und Raspi Gpib. (Version 4.3.3 with Patch 4.3.0 are installed.)

https://github.com/elektronomikon/raspi_gpib_driver

https://sourceforge.net/projects/linux-gpib/files/

2. Change the gpib_config und gpib.conf files.

>>> sudo nano /etc/gpib.conf (content in file gpib.config.txt)

>>> sudo nano /etc/init.d/gpib_config (content in file gpib_config.txt)

>>> sudo cp /etc/gpib.conf /usr/local/etc/gpib.conf

>>> sudo modprobe gpib_common

>>> sudo modprobe raspi_gpib

>>> sudo ldconfig

>>> sudo gpib_config

3. use ibterm and ibtest to send GPIB commands and get the results. GPIB address of keithley 2000 is set as 19.

>>> ibterm -d 19 -N (Enter)

Enter

"Keithley ……."

>>> ibtest

d

19

w

*IDN?

R

100

"Keithley …..."

4. After restarting the system, the following must be done each time to connect with GPIB.

>>> sudo modprobe gpib_common

>>> sudo modprobe raspi_gpib

>>> sudo ldconfig

>>> sudo gpib_config