ADLINK GPIB Interfaces Configuration

The ADLINK GPIB library for Linux uses a configuration file, /etc/adgpib/adgpib.cfg, to configure the following settings:

- The Board Index
- The Board Type
- Gpib bus address
- I/O timeout
- GPIB Bus Timing
- Enable/Disable auto_polling

A default configuration file, *adgpib.cfg*, can be found in the driver folder of the installation package and is copied to /etc/adgpib during driver installation. You can modify the file for your requirement and copy it to /etc/adgpib or call driver installation script to update the board configuration file.

The first line of the configuration file is the number of PCI/PCIe/USB-348A interfaces in the system. Ex. *number_of_gpib=1;*

Each interface has its own [section], the name of the section indicates the interface index and type. Section Name:

Section name	Board Type	Description	Example
adgpib**x**	PCI/PCIe-348A	***x*** is the board index	*[adgpib0]*
usbgpib**x**	USB-348A	***x*** is the board index	*[usbgpib1]*

Configuration Items:

Items	Description	Example
system_controller	System controller or not 1: enable 0: disable	1
primary_address	GPIB primary address	0
seconday_address	GPIB secondary address	0
bus_timing	GPIB Bus timing in microseconds	500
io_timeout	IO Timeout in microseconds	10000000
auto_polling_enable	Enable/disable serial auto polling 1: enable 0: disable	1

An example of ***adgpib.cfg***:

number_of_gpib=3;

[adgpib0]
system_controller=1;
primary_address=0;
seconday_address=-1;
bus_timing=500;
io_timeout=10000000;
auto_polling_enable=1;

[usbgpib1]
system_controller=1;
primary_address=1;
seconday_address=-1;
bus_timing=500;
io_timeout=10000000;
auto_polling_enable=1;

[usbgpib2]
system_controller=1;
primary_address=0;
seconday_address=-1;
bus_timing=500;
io_timeout=10000000;
auto_polling_enable=1;