luadaqmx

OneLuaPro access to NI's DAQmx driver (v24.5.0 a.k.a. 2024 Q3).

Usage

writeDigitalLine(device,port,line,value,timeout)

This function writes either 0 or 1 to a digital line specified by its physical designation Px.y, with x as the port number and y as the line number.

readDigitalLine(device,port,line,timeout)

This function reads a digital line specified by its physical designation Px.y, with x as the port number and y as the line number.

getNIDAQVersion()

This function returns the version information of the NI-DAQmx SDK, to which luadaqmx was linked.

```
local daq = require "luadaqmx"

local major, minor, update = daq.getNIDAQVersion()
print(string.format("Built with NI-DAQmx version %d.%d.%d.",major, minor, update))

Built with NI-DAQmx version 24.5.0.
```

Install

- Install OneLuaPro to c:\Apps.
- Install MSVC Build Tools as described in https://github.com/OneLuaPro?tab=read me-ov-file#building-and-installing-oneluapro-from-source-code
- Download and install https://www.ni.com/de/support/downloads/drivers/download.ni-daq-m
 x.html#544231
 - o Install NI-DAQmx Support for C
 - NI-Certificates
 - Assumes installation of headers and libraries into C:\Program Files (x86)\National
 Instruments\Shared\ExternalCompilerSupport\C

```
mkdir build && cd build
cmake .. -G "Visual Studio 17 2022" -A x64
cmake --build . --config Release
cmake --install . --config Release

# Available architectures (-A ...) are: Win32, x64, ARM, ARM64
```

License

See https://github.com/OneLuaPro/luadaqmx/blob/master/LICENSE.