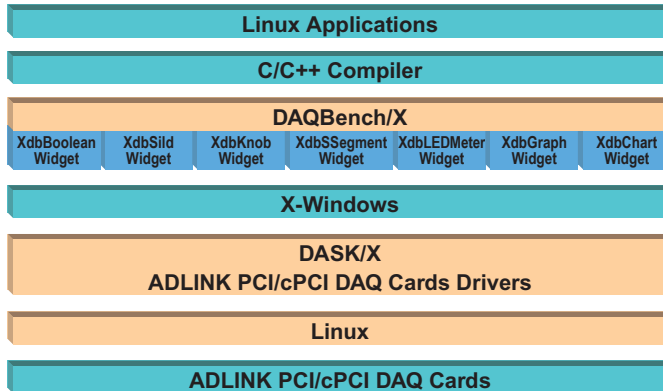


Linux Support

Linux Support for ADLINK Products

ADLINK Linux Solution



Why Linux

Few people would debate that Linux is a reliable, secure operating system. In addition to being cost-effective, it is constantly being updated and refined with the latest technologies. As Linux gains greater acceptance throughout the computing industry, more and more companies are supporting Linux via both application and hardware compatibility.

Currently ADLINK provide three Linux related products for customer. With these three products, user can program easily to control the ADLINK PCI/cPCI DAQ cards, program easily to construct the HMI(Human Machine Interface) for a control program.

Product: PCIS-DASKIX, D2K-DASKIX

Introduction

PCIS-DASK/X and D2K-DASK/X are the device drivers for custom data acquisition applications under Linux. DASK/X software drivers provide a common Application Programming Interfaces (APIs) to ADLINK's extensive family of PCI/CompactPCI/PXI plug-in data acquisition cards, and utilize the full capabilities of these cards under Linux environment. With DASK/X driver, you can easily access all of the functionalities of ADLINK NuDAQ and DAQ-2000 series PCI /CompactPCI/PXI data acquisition cards and get the best performance of them.

Specification

- **PCIS-DASK/X Support ADLINK NuDAQ series cards**
- **D2K-DASK/X Support ADLINK DAQ-2000 series cards**
- **Linux ELF shared library**
- **Functions**
 - • Single-point analog input
 - • Buffered data acquisition
 - • Double-buffered data acquisition
 - • Single-point analog output
 - • Arbitrary waveform generation
 - • Digital I/O control
 - • Buffered digital I/O
 - • Double-buffered digital I/O
 - • Counter/Timer I/O
 - • Auto calibration(only in D2K-DASK/X)



Product: DAQBenchIX

Introduction

DAQBench/X is a collection of Widgets for data presentation within Linux X Window system. With DAQBench/X, you can easily develop complex custom user interfaces to display your data.

- **XdbBoolean**: UI component for operating Boolean functions.
- **XdbSlide**: UI component for operating slide functions using linear displays, such as the variant slide, thermometers and tank display
- **XdbKnob**: UI component for operating knob functions using circular displays, such as the knob, dial and different type of meters
- **XdbSSegment**: UI component for display number using style of seven-segment display
- **XdbLEDMeter**: UI component for operating linear meter functions using a LED Bar style display
- **XdbGraph**: UI component for plotting data
- **XdbDChart**: UI component for plotting moving data

Specification

- **Widgets for Linux X Window system**
- **Easy-to-use data-presentation software components**

Software Information

- **PCIS-DASK/X**:
Data Acquisition Software Kit for ADLINK NuDAQ PCI-bus data acquisition cards for Linux
- **D2K-DASK/X**:
Data Acquisition Software Kit for ADLINK DAQ-2000 series data acquisition cards for Linux
- **DAQBench/X**:
Widgets for measurement and automation application under Linux X Window environment

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