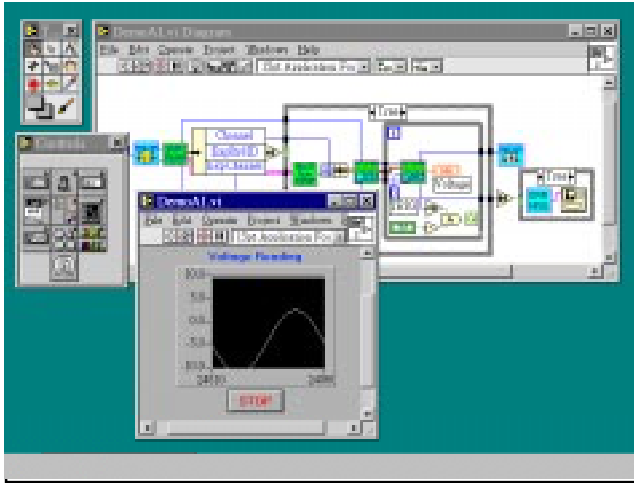


# 32-bit LabVIEW Driver *Support LabVIEW 4.1 for Windows 95/NT*



Now, Advantech announce to release 32-bit LabVIEW driver for Advantech PC-Lab Cards and remote data acquisition and control devices. These drivers will be executed in Microsoft Windows 95 and Windows NT 4.0 environment. 32-bit LabVIEW drivers feature with both high-speed and normal-speed data acquisition functions. And, LabVIEW drivers provide two different interfaces for users. One is Easy I/O VIs (virtual instrument) for ease-to-use, another is Advanced I/O VIs (virtual instrument) for complex applications. Through 32-bit LabVIEW drivers, you can easily integrate Advantech DA&C devices with LabVIEW software to build a powerful laboratory automation solution.

## Functionality

Advantech 32-bit LabVIEW drivers enable you to use PC-Lab Cards and remote data acquisition and control modules with LabVIEW software. The LabVIEW driver forms an interface between Advantech DA&C device DLL drivers, which contain all the relevant functions to control the PC-Lab Cards or remote DA&C device, and the LabVIEW software. LabVIEW driver forms a VI (virtual instrument) in the LabVIEW package, which enables other hardware to be used in conjunction with the PC-Lab Card hardware.

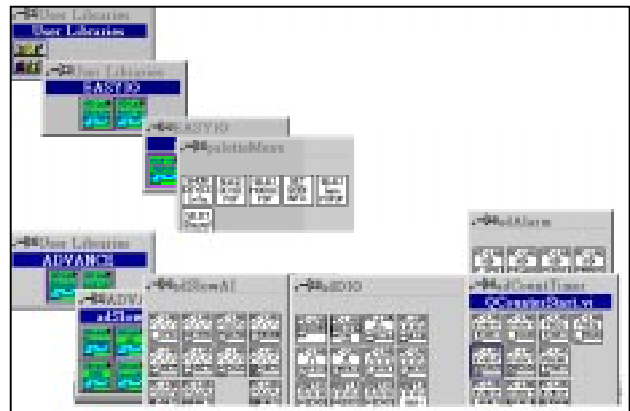
Advantech 32-bit LabVIEW drivers provide two different sets of VIs: Easy I/O VIs and Advanced I/O VIs. The Easy I/O VIs are a collection of I/O blocks which are used to perform basic I/O operations. The Advanced I/O VIs are more flexible than the Easy I/O VIs, at the cost of complexity.

**32-bit LabVIEW drivers provides the following I/O VI functions:**

- **Single Channel AI:** single channel of analog input
- **Multi-Channel AI:** multiple channel of analog input

- **Fast AI:** high speed analog input
- **AO:** one channel of analog output
- **Fast AO:** high speed analog output
- **Temp Measure:** temperature measurement
- **DI:** digital input
- **DO:** digital output
- **Event Counting:** event counting
- **Frequency Measure:** frequency measurement
- **Pulse Output:** pulse output
- **COM Port:** COM port read/write

The Advanced I/O VIs provide more hardware and software functionality, flexibility, and efficiency than the Easy I/O VIs. For functions of Advanced I/O VIs, please refer to Advantech DA&C device DLL drivers.



## Hardware Supporting

According to the functionality and features of hardware, 32-bit LabVIEW drivers are cataloged into four kinds of groups as below:

**Plug-in DA&C cards:** PCL-711S, PCL-720, PCL-722, PCL-724, PCL-725, PCL-726, PCL-727, PCL-728, PCL-730, PCL-731, PCL-733, PCL-734, PCL-735, PCL-812PG, PCL-813B, PCL-816, PCL-818H/HD/HG/L/LS, PCL-833, PCL-836

**MIC-2000 modules:** MIC-2718, MIC-2728, MIC-2730, MIC-2732, MIC-2750, MIC-2752 (Windows NT only)

**PCM series:** PCM-3718, PCM-3724, PCM-3730 (Windows NT only)

**ADAM DA&C modules:** ADAM-4000 series and ADAM-5000/485 series devices

## Order Information

□ **PCLS-NI:** 32-bit LabVIEW 4.1 drivers for DA&C modules.