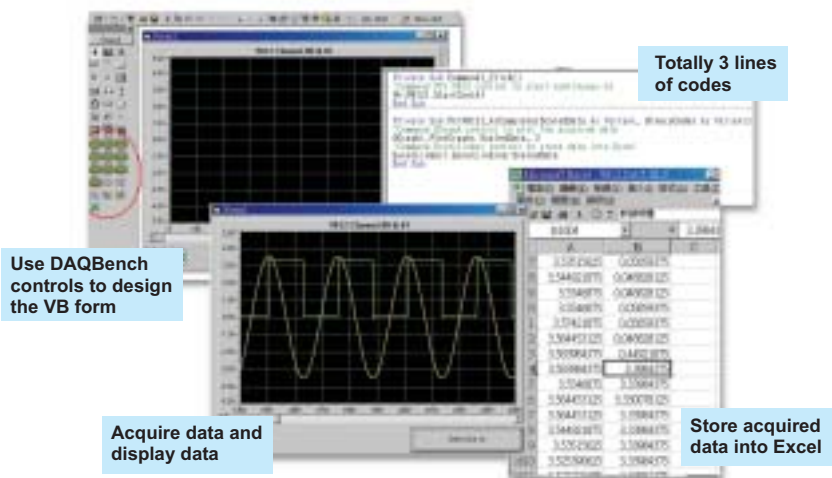


In a traditional way, users must call a series of driver API to control the DAQ cards, followed by a user-specified algorithm to process the data. In addition, users need to pay attention to the sophisticated Windows programming techniques to display the processed data. Furthermore, some users may have the necessary to integrate data with the database or excel.

DAQBench provides you a great help in each stages for a measurement application. With the advanced ActiveX technology, users may utilize proper DAQBench controls and "piece up" a measurement application with these controls. Here is an example using VB with DAQBench to finish a data acquisition application.



1 Software Solutions

2 PXI/ CompactPCI Platforms

3 PXI-Based Instruments

4 PXI/ CompactPCI Modules

5 PCI DAQ Cards

6 PCI DIO Cards

7 PC/104-Plus Products

8 ISA DAS/ DIO Cards

9 Wiring Termination Boards

10 Motion Control Cards

11 Machine Vision Products

12 Remote I/O Modules

▶ Unlimited SCADA/HMI application with network accessibility

What does a SCADA/HMI application need?

- Local and remote data acquisition
- Alarm generating and management
- Automatic data and alarms logging
- Real-time data trend displaying
- Historical data trend displaying
- Report generation
- Plenty of user-interface objects
- Plenty of industrial symbols

DAQBench provides a complete architecture to help users quickly developing a SCADA/HMI application without the limitation of hardware alternatives and application flexibility. In the bottom layer of this architecture, DAQBench uses the OPC standard as the unique interface to support any kind of hardware, including data acquisition modules, PLCs, DMMs, or any other hardware which has a corresponding OPC server. In the middle layer, a Tag Server that utilizes the COM/DCOM technology is provided to automatically gather data, update user-interface, log data, and generate alarms. While developing a SCADA/HMI application, users can use the SCADA/HMI controls provided in DAQBench package. These controls are designed to cooperate with Tag Server to automatically display the incoming data and alarms provided by Tag Server.



What is OPC?

OPC (OLE for Process Control) is a new-generation standard for data exchange in industrial automation. OPC utilizes Microsoft's COM/DCOM technology, so that not only the performance is enormously improved but also the network access ability is achievable. With the OPC standard, a SCADA/HMI application may access all kinds of devices using the identical interface. That is, hardware supporting is unlimited via OPC.

