A PC based low cost data acquisition system for physics applications

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A simple low cost DAQ system was built including most of the general options available in commercial DAQ systems. Device contains two channel 8-bit ADC, two channel 8-bit DAC, reference voltage selector, 8-bit digital input, one 8-bit register and a 8 step digital gain controller. Control software for the device was written in Delphi and assembler languages. The device can be operated at the speed of the parallel port (around 800 ksps max) and it can be implemented with a cost less than Rs. 4000.