

T3_47 THE BASIC WAY OF MEASURING SYSTEM COOPERATING WITH THE PC USING THE INTEGRATED FLASH ANIMATION INTO EDUCATIONAL MAINSTAYS.

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Current educational technologies place a special emphasis on implementation of measuring systems directly into educational mainstays. This combination brings significant effects, because it enables the connection of educational materials, educational simulations and measuring systems that measure, collect and process data and provide them directly to the educational system. The use of Adobe Flash is highly recommendable when creating the educational core in such systems. Thanks to its options and abilities, Adobe Flash gives nearly infinite number of possibilities to creators who program multimedia educational supports with high allotment of inner intelligence. The Masaryk University Department of Technical and Information Education has been focusing on this problem for a long time. That is one of the reasons why the experimental prototype of binary counter that cooperates with personal computer was created. The graphics interface is realized through Adobe Flash, the communication modulus in a personal computer is executed with the help of Visual Basic. The counter is build on single-chip micro-controller PIC16F84 and communicates with the personal computer over the RS232C bus. The advantage of such solution is the easy communication with a personal computer and the ability of the counter cross-connection with a personal computer through USB port or Bluetooth. The article concerning the example of the counter shows the basic way of measuring system execution. It shows its activity. It describes the communication between the counter and the personal computer. It outlines the communication between Flash animation and the software that was created in Visual Basic.