

MicroBoard Web Link

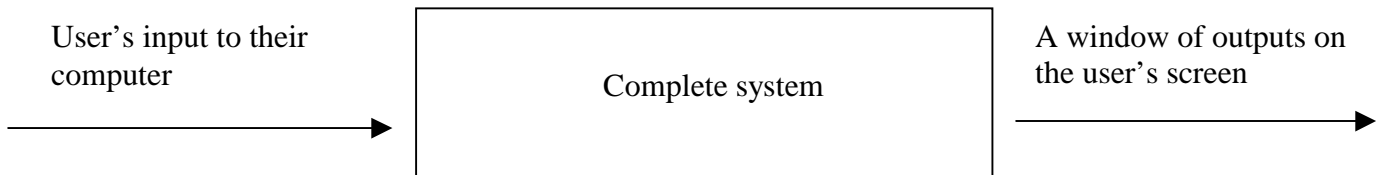


Fig 1 overall system

The complete system can be modeled as three different subsystems, the user's computer, the link between computers and the board's computer. The user's computer system takes in input from the user from the keyboards and translates that into signals that may or not require and action depending on their type. If they are signals that are responsible for doing something on the board they will have another step added to them once they reach the board's computer, otherwise they function as normal inputs to whatever the user is doing. The link between the computers is a bi-directional channel that functions as an encoder and decoder at both ends for the signals that the computers will send out to each other. The system on the board's computer will run the board. It will receive the code from the user and run it upon the user's request. It will reset the board and grab the data off the LCD by using a camera. It will send signals and interrupts to the board mimicking the keypad as the users uses the keypad on their computer.

Fig 2 Description of system elements

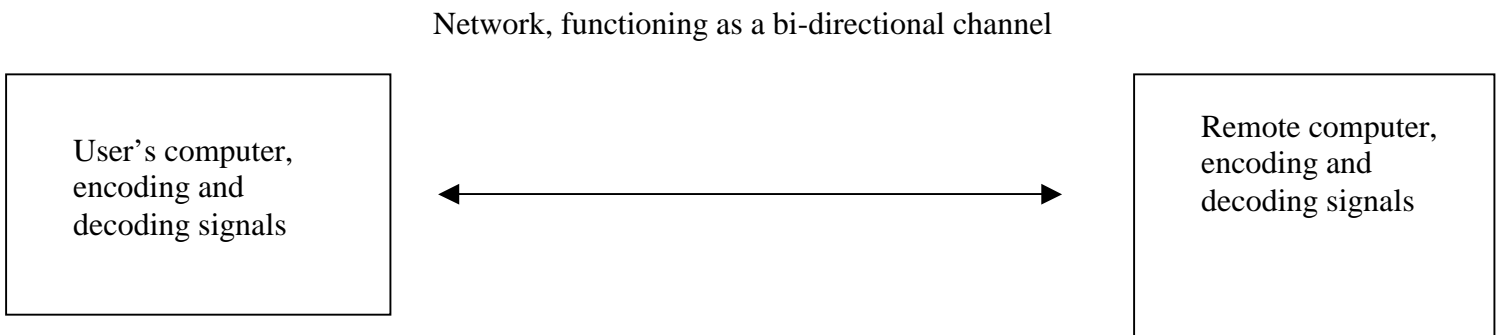


Fig 3 Link between computers system.