

CZECH TECHNICAL UNIVERSITY IN PRAGUE

FACULTY OF ELECTRICAL ENGINEERING

PAGER - DOCUMENTATION

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May 23, 2016

1 Introduction

The code is distributed into several files. Here we will describe each of them and the role they play.

2 `pci.c`

It is a starting point of the program, e.g. it has **main** function which has the main loop of the program. It calls all functions and is alternating between default mode and message mode. Also it starts all threads: for message receiving and keyboard listener, which is waiting until the user writes **end** in standard input and will finish the application.

3 `pci_lcd.c`

It is used for initiation of LCD display, writing to it, for reading from keyboard and displaying on LEDs. Also there are some helpers, such as make a beep, translating a key, writing data to bus, reading data from bus.

4 `klient.c`

This file makes working with a server easier. It provides functions for connection to the server and implements a listener for the message receiver.

5 **finder.h**

The file provides function `findMe()` which will initiate everything for searching, and returns found device afterwards. Function **bfs** implements breadth-first search in given directory.

6 **kbd_hw.h**

There definitions of `mmaped_8bit_bus_kbd` hardware are defined.

7 **chmod_lcd.h**

It's a file with control codes for two or four line character LCD modules.