

Multithreading programming

Jan Faigl

Department of Computer Science

Faculty of Electrical Engineering

Czech Technical University in Prague

Lecture 09

B3B36PRG – C Programming Language

Overview of the Lecture

- Part 1 – Multithreading Programming

Part I

Part 1 – Multithreading Programming

Summary of the Lecture

Topics Discussed

- Multithreading programming
 - Terminology, concepts, and motivations for multithreading programming
 - Models of multi-threaded applications
 - Synchronization mechanisms
 - POSIX and C11 thread libraries

Example of an application

- Comments on debugging and multi-thread issues with the race condition and deadlock

- Next: ANSI C, C99, C11 – differences and extensions