Software Lab

A complete example

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Application overview (§11.1)

- A minimal web server
- It serves dynamic web pages
- Requested module is loaded "on the fly"
- 4 example modules: time, issue, diskfree, processes

Server implementation (§11.2)

- **common.c: common functions**
  - secure [re]allocation, error handling, paths
- **module.c: dynamic module loading (§2.3.6)**
- **server.c**
  - socket, fork, connection management and requests
- **main.c: option parsing, server start**

Server implementation (§11.3)

main.c

      main()

server.c

      server_run()
      handle_connection()
      handle_get()
      uncgi()

module.c

      module_open()
      module_close()

common.c

      xmalloc()
      xrealloc()
      xstrdup()
      system_error()
      get_self_exec_dir()