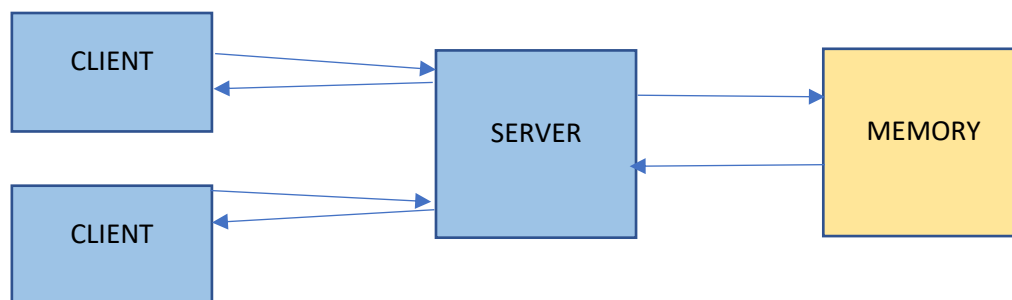# P2. Event-Driven Server

Concepts used

tcp sockets, select, FastCGI

Design

Event-driven server starts running on port number 8081. A client has to enter localhost:8081 on its web browser. The connection request is made and the server and client establish a connection. Initially the server sends a prompt which is displayed, asking the user for the name of the file. The client enters the name of the file and the request is sent back to the server. This file name is searched for in the machine and its contents are read. The server then sends the contents of the file back to the client.

If the request ends with a ".cgi", then a separate process is created and this process executes the file using FastCGI interface and sends the output back to the client. All .cgi files are assumed to have a shebang line (.eg #!/usr/bin/python3) at the beginning of the program.

Files Included

event_driven_server.c

How to run

Compile using make all.

Run ./srv to start the server

Limitations

Does not check whether file is present in RAM or not. Instead checks disk each time a file is to be searched.

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