



```

public component class WebServer {
  private final Router r = new Router();
  connect r.request, create;
  connect pattern Router.workers, Worker.serve;

  private port create {
    provides r.workers requestWorker() {
      final Worker newWorker = new Worker();
      r.workers connection
      = connect(r.workers, newWorker.serve);
      return connection;
    }
  }
  public void run() { r.listen(); }
}

public component class Router {
  public port interface workers {
    requires void httpRequest(InputStream in,
                              OutputStream out);
  }
  public port request {
    requires this.workers requestWorker();
  }
  public void listen() {
    ServerSocket server = new ServerSocket(80);
    while (true) {
      Socket sock = server.accept();
      this.workers conn = request.requestWorker();
      conn.httpRequest(sock.getInputStream(),
                      sock.getOutputStream());
    }
  }
}

public component class Worker extends Thread {
  public port serve {
    provides void httpRequest(InputStream in,
                              OutputStream out) {
      this.in = in; this.out = out; start();
    }
  }
  public void run() {
    File f = getRequestedFile(in);
    sendHeaders(out);
    copyFile(f, out);
  }
  // more method & data declarations...
}

```