

Master Program in Computer Science and Networking
High Performance Computing

2012-13

Homework 1

Submit the written answer. Deadline: September 24 at the lecture, or send an e-mail: vannesch@di.unipi.it. The solution has to be discussed at Question Time.

Question 1

Explain Section 1.3.3 (Part 0 Course Notes) in more detail, in general and also using different examples about paragraph 3 (“In other terms …”). Explain paragraph 4 (“It is important …”).

Explain the last paragraph (“Moreover, …”): in particular explain the differences between the level structuring of Section 1 and the protocol stack structuring.

Question 2

Consider a service, e.g. of the operating system, available to applications and linkable to them. Two or more applications cannot use the service simultaneously. Explain how this condition is respected in two different scenarios:

- a)* the service is a process
- b)* the service is a procedure.