

Name	Signature	Student Id Nr	Points

Operating Systems, miniexam 5, 4.4.2016 (6p)

Write your answer on this exam paper in the space given. Please notice, that the exam paper is 2-sided.

a) [2 p] What problem does the *Shortest process next (SPN)* scheduling policy exactly solve?

How does it work in principle?

How would it be better than FIFO and why?

How do you know what the "shortest process" is, if the information relating to it is not given?

b) [1 p] What problem is solved with *Fair Share scheduling* policy?

What system data must be collected for it?

c) [2 p] What problem is solved with *Rate Monotonic Scheduling* policy?

What kind of computational environment is it intended for?

When can one use it?

How does it work?

d) [1 p] What is the priority inversion problem in real time systems?

Why is it a problem?

Why is it not a problem in ordinary computational environment?

How do you solve it?