

Name	Signature	Student Id Nr	Points

Operating Systems, miniexam 5, 27.3.2017 (6p)

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

a) [2 p] How does the *Highest Response Ratio Next (HRRN)* scheduling work?

What data does it use in decision making and how is that data obtained?

What types of jobs does it prefer and why?

b) [1 p] *Fair Share scheduling* policy tries to give different users about equal execution time, independently on how many processes they have for execution.

How does *Fair Share scheduling* work in main principles?

- c) [2 p] In a real time system task A runs every 50 ms, task B every 20 ms, and task C every 100 ms. Under what circumstances could one use just priorities for scheduling?

How would the priorities be determined in this example? Who has the highest priority and why?

- d) [1 p] Mention one scheduling algorithm for multiprocessor systems, such that it is not suitable for uni-processor or real time systems. Explain, why not. Explain also how it works in main principles.