Distributed and Operating Systems Group

Advanced Operating System Issues (AOSI)

Excercise Sheet 4
Due date: 15.12.2011

1 NFS

1. Discuss the differences between NFSv3 and NFSv4! Try to motivate the changes in the protocol.

2. How can a client access the content of a file on a NFS server. Which situations need special care?

2 AFS

1. Explain the basic concept of AFS!

2. Suppose you are the administrator of an office which contains 20 PCs, that are often used at the same time (work hours). Would you prefere NFS or AFS to support collaboration on file level between your workers. Justify your decision!

3 Consistency

Compare the different approaches to ensure consistency in NFS, AFS and DSM! Estimate the impact of the consistency mechanism on the performance of the communication.