Distributed and Operating Systems Group

Advanced Operating System Issues (AOSI)

Excercise Sheet 5
Due date: 06.12.2012

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?

3. Can a client open a file remotely on a NFSv3 Server while another Client holds a lock on this file?

4. Consider a NFSv3 server, which is accessed by multiple clients. Two or more of these client access the same file and lock the file mutually for write acces. If one of the clients crashes while holding the lock, what would happen? Is there a mechanism in NFSv3 which solves the resulting problem?

5. Compare NFSv3 and WebDAV. Especally consider attributes like data consistency and performance.