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FAKULTÄT FÜR
INFORMATIK

Distributed and Operating Systems Group

Advanced Operating System Issues (AOSI)

Excercise Sheet 2

Due date: 08.11.2012

1 Communication Models

Define the basic idea of communication and the special characteristics in the following communication models: **Message Passing, Remote Procedure Call, Shared Data Spaces, Publish/Subscribe**

2 Message Passing

Is the TCP protocol appropriate to realize cooperation in a distributed System? Give reasons for your decisions!

3 RPC

Imagine a crashing server during the processing of a synchronous RPC of a client. Which problems can happen?

4 Shared Data Spaces

Why is it necessary for data space to be immutable? How can an overwrite operation be simulated by the existing operations on the data space?

5 Publish/Subscribe

Describe why multicast support is beneficial for a Publish/Subscribe communication.