

Thesis
B.Sc.

IDP,
Guided
Research

Simulation of a Network Redundancy Protocol

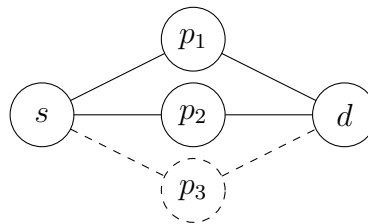
Introduction

Our chair currently is developing a network redundancy protocol. There are open questions on how the protocol behaves under various circumstances and topologies. Thus the goal of this topic is to give detailed insight in the behavior of the protocol and its implementation using modelling and simulation.

Tasks

- familiarize yourself with our protocol and similar protocols
- build a generalized model of the protocol deployment
- define relevant performance metrics (e.g. packet loss probability, state size, throughput...)
- find a suitable simulation approach or framework
- implement this model and assess the metrics and the impact of configuration parameters in a network simulation

Example



Basic example topology of redundant transmission with unreliable links.

Note

A more detailed project description and working plan will be elaborated together with the advisors.

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