DVA218, LAB3a

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# Introduction

In this report we discuss how to implement reliable transport protocol build upon the existing UDP-protocol.

# Three-way-handshake

The three-way-handshake will be implemented with SYN and ACK messages send from client to server and back. See figure (\_) for the state machine diagrams of the client-side and server-side of the handshake. Messages are resent after a timeout. After three unsuccessful resends the action is aborted and state machine returns to its previous state.

# Sliding window

We use the Go-Back-N algorithm for the sliding window protocol. See figures (\_) for the state machines. The state machines are simplified in the respect that a infinite sequence of package sequence numbers is assumed.

# Connection teardown

The connection teardown follows a similar process as the three-way-handshake but utilizes FIN messages instead of SYN messages. See figures (\_) for the state machines.