

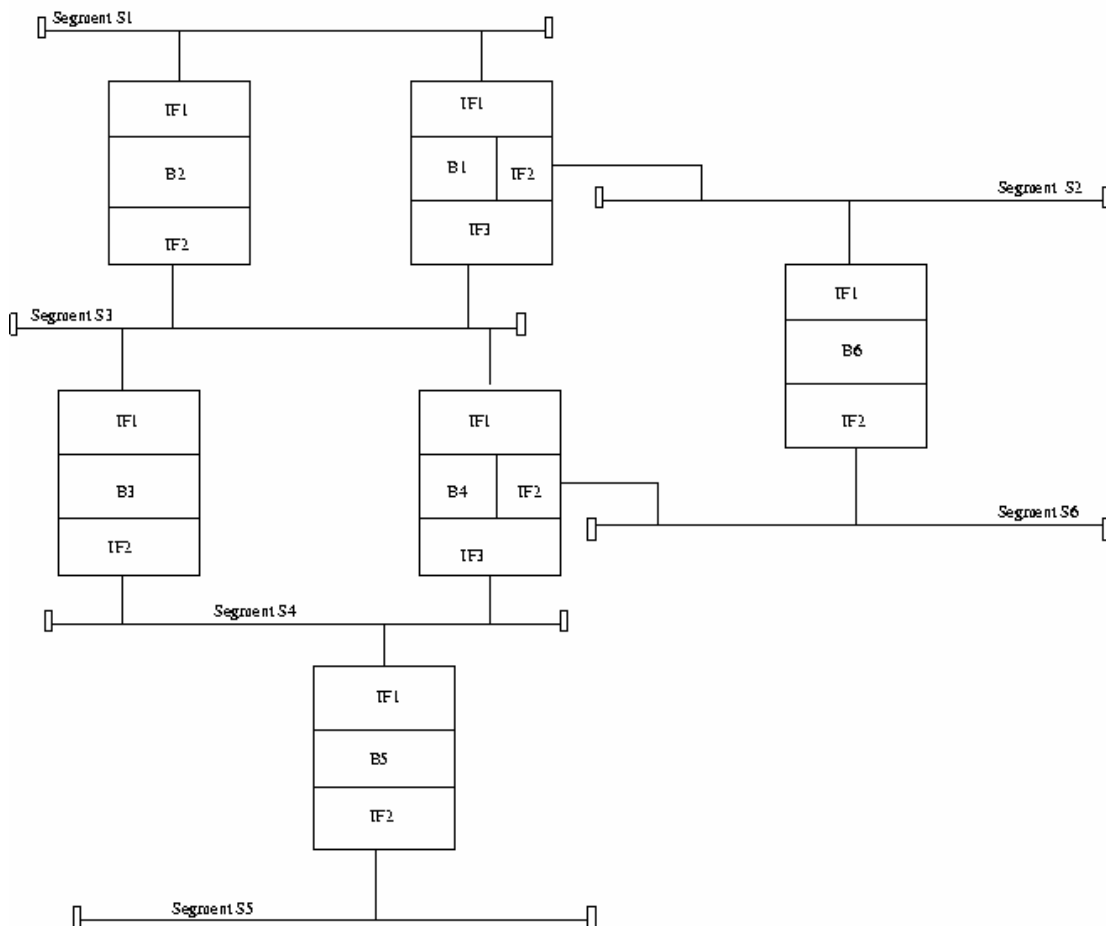
COE 444 - Internetwork Design and Management
Fall 2003 (Term 031)

Homework 2

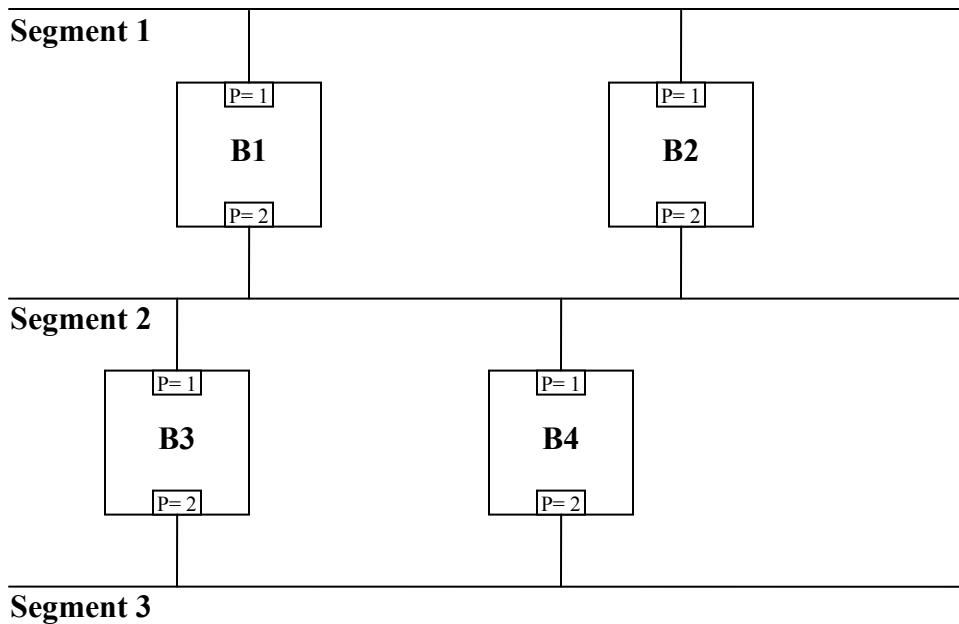
Date: Thursday, September 25, 2003

Q1. Given a LAN consisting of six Ethernet segments interconnected by 6 bridges as illustrated in the figure below. Note that the ID of each bridge is its name.

Suppose we are using fixed routing to configure the bridges. Determine the central routing directory for all segments, and the routing tables for Bridges B1 and B3. If alternate routes are available then chose the one with the least number of hops. If they are the same than choose the one with the lowest bridge ID.



Q2. Given a LAN consisting of three 100 Mbps Ethernet segments interconnected by 4 bridges as illustrated in the figure below. Note that the ID of each bridge is its name.



Assume that we are using fixed routing to configure the bridges. Determine the **central routing directory** for all segments, and the **routing table for Bridge B1**. If alternate routes are available then chose the one with the least number of hops. If they are the same then choose the one with the lowest bridge ID.