1 Routing in circuit switched networks

In the following exercise Route Trees for hierarchical networks are asked. In these exercises the hierarchical networks should thought as models of PSTN (Public Switched Telephone Network). This is not limit your creativity in creating the Route Trees but to give you perspective and a frame of reference. Any and all written comments are welcome if not obligatory.

1. *Girard 2.8 ja 2.9* Use the three level network in Figure 1 and assume SOC. Construct

   - *Augmented routing tree* from the low level node in the down left hand corner to the down right hand corner.
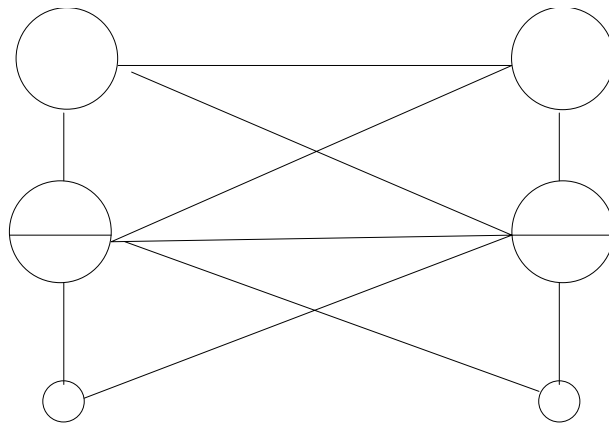   - Draw also the *influence graph* based on the routing tree.

Figure 1: Three level network

2. Draw a Route Tree for the network in Figure 2. The network is hierarchical with SOC in use. No cranckback.

3. Now, draw a Route Tree for the network in Figure 2. The network is hierarchical with OOC in use. Still no cranckback. Explain how the solution differs from the previous one. Do any other solutions exist?
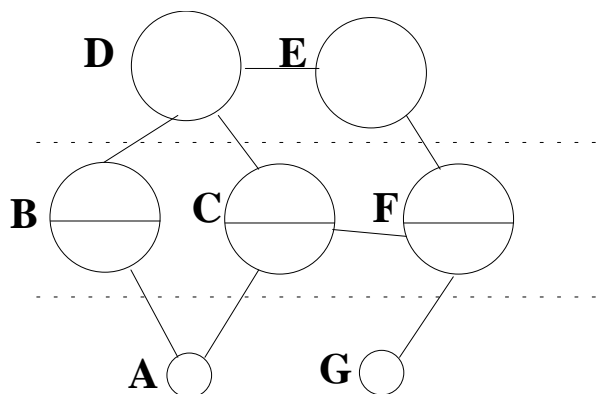

Figure 2: Another three level network

4. Your thoughts on... Write a couple of lines (max. half a page) on how clear and concise the routing instructions given in writing are. What do you think would be the best way or method to describe routing rules and different routing options.