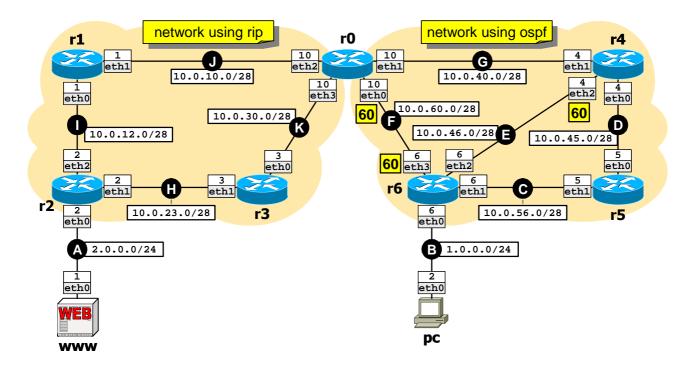
### ICN - Examination date: 29-11-2013 - "Chimneys"



## Available time: 60 minutes.



Using Netkit, implement the network shown in the figure and described below.

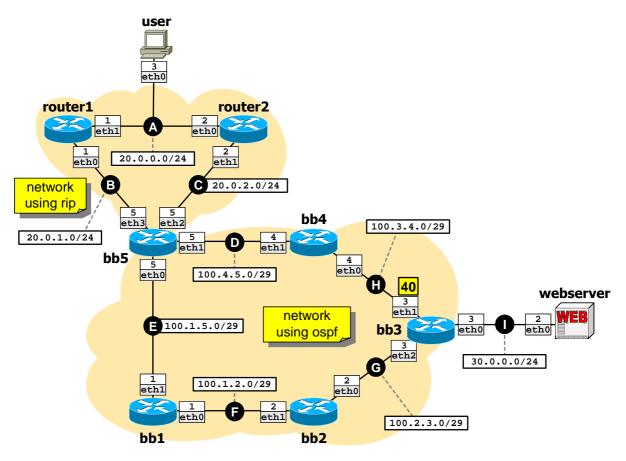
- Each network, indicated by a cloud, uses the specified routing protocol.
- Router **r0**:
  - announces in RIP *solely* a default route (**0.0.0.0/0**);
  - redistributes into OSPF all the routes learned by RIP.
- All OSPF routers belong to area 0.0.0.0.
- Interfaces must be assigned OSPF costs as indicated in the figure. If the cost is unspecified, the default value is to be assumed.
- www is a web server that runs apache2 and serves page http://2.0.0.1/

- pc must be able to access the Web page exposed by www by using links.
- By running suitable traceroutes, check that traffic from pc to www traverses link E, while traffic from www to pc traverses links D and C.

## ICN - Examination date: 29-11-2013 - "Antenna"



## Available time: 60 minutes.



Using Netkit, implement the network shown in the figure and described below.

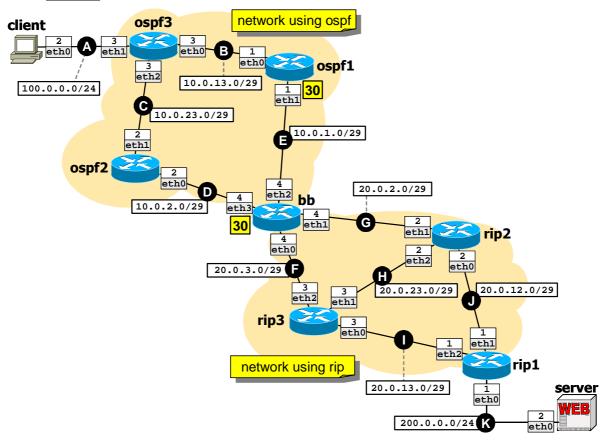
- Each network, indicated by a cloud, uses the specified routing protocol.
- Router **bb5**:
  - announces in RIP *solely* a default route (**0.0.0.0/0**);
  - redistributes into OSPF all the routes learned by RIP.
- All OSPF routers belong to area 0.0.0.0.
- Interfaces must be assigned OSPF costs as indicated in the figure. If the cost is unspecified, the default value is to be assumed.
- webserver is a web server that runs apache2 and serves page http://30.0.0.2/

- user must be able to access the Web page exposed by webserver by using links.
- By running suitable traceroutes, check that traffic from user to webserver traverses links **D** and **H**, while traffic from webserver to user traverses links **G**, **F**, and **E**.

## ICN - Examination date: 29-11-2013 - "Steps"



## Available time: 60 minutes.



Using Netkit, implement the network shown in the figure and described below.

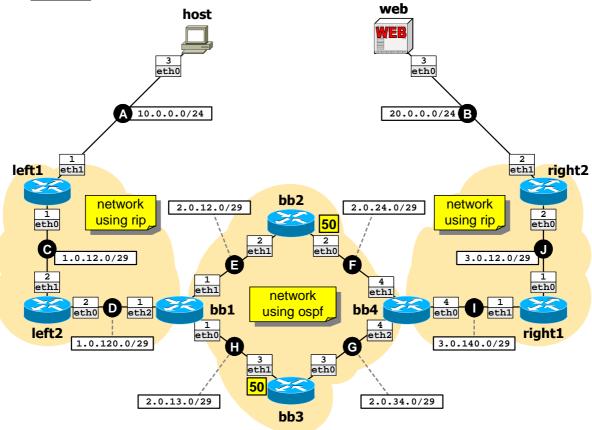
- Each network, indicated by a cloud, uses the specified routing protocol.
- Router **bb**:
  - announces in RIP solely a default route (0.0.0.0/0);
  - redistributes into OSPF all the routes learned by RIP.
- All OSPF routers belong to area **0.0.0.0**.
- Interfaces must be assigned OSPF costs as indicated in the figure. If the cost is unspecified, the default value is to be assumed.
- server is a web server that runs apache2 and serves page http://200.0.0.2/

- client must be able to access the Web page exposed by server by using links.
- By running suitable traceroutes, check that traffic from client to server traverses links C and D, while traffic from server to client traverses links E and B.

# ICN - Examination date: 29-11-2013 - "Crab"



## Available time: 60 minutes.



Using Netkit, implement the network shown in the figure and described below.

- Each network, indicated by a cloud, uses the specified routing protocol.
- Routers bb1 and bb4:
  - announce in RIP solely a default route (0.0.0.0/0);
  - redistribute into OSPF all the routes learned by RIP.
- All OSPF routers belong to area 0.0.0.0.
- Interfaces must be assigned OSPF costs as indicated in the figure. If the cost is unspecified, the default value is to be assumed.
- web is a web server that runs apache2 and serves page http://20.0.0.3/

- host must be able to access the Web page exposed by web by using links.
- By running suitable traceroutes, check that traffic from host to web traverses links H and G, while traffic from web to host traverses links F and E.