

CS 430/594 Routing Spring, 2004 straight
labs on the cisco routers...claxton 118

- 1) connect two routers: **A ----- B** so that you can successfully ping B from A. I passed out a sheet showing this earlier.
- 2) connect 3 routers **A ----- B ----- C** with one of the links serial, the other ethernet so that you can ping C from A--this will involve setting up some static or default routes.
- 3) connect 4 (or more) routers in an interesting topology and run RIP:: e.g.
A ----- B ----- C ----- D.
- 4) connect 4 (or more) routers and run OSPF--with at least one area in addition to the backbone.
- 5) connect 5 (or more) routers and run OSPF with stub/nssa areas.

successfully completing these 5 labs will be counted as a software lab.

optional lab (tougher)

- 6) troubleshooting--this will involve debugging a routing setup--i.e. the routing has failed somewhere.

also: possible optional labs for the enthusiasts (these are NOT for students/groups trying to improve on a missing software lab or poor exam, etc)

- 7) ASBRs: run OSPF plus RIP--this means that one router will have one interface in RIP, the other in OSPF.
- 8) BGP (assuming this is possible on the equipment). (note: at this time we're replacing mars with mercury). pluto will be the "internet" BGP gateway for an autonomous system with mercury and venus, neptune will be the BGP gateway for the AS with jupiter and saturn.