

## Syllabus markets tradeoffs actual needs



- ♦ corporate vs. ISP
- ♦ LAN vs WAN
- default vs default free







## Tradeoffs

- ♦ cache size
- routing table size
- ♦ lookup type
- "flow"-based "switching"

session C15 - Bradner - 7

## Cache Size

 if cache-based & cache < routing table easy overload if cache load is expensive - real problems



- if market is corporate (or small ISP) then restricted routing table is OK
- if market is default-free ISP then need to deal with full routing table

and full path table





## **Actual Needs**

- need is never as great as the hype
- remember its a mixed packet size world
- 100 Mb Ethernet (per port pair)
   148,800 pps (64) but "only" 8120 pps at 1518
- the "right" thing
   "all" > 512 byte packets that the media can deliver forever
- but if its not perfect the competition will step on it anyway