CSE/EE 461 Lecture 20 More Multicast

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Peterson, Chapter 4.4











Hierarchical Broadcast and Prune

- Reverse Path Flooding
 - Discard incoming packet if not from reverse path
 - Multicast incoming packet to all borders
- Reverse Path Multicast
 - For each neighbor AS, compute if we're on its reverse path to source
 - Multicast incoming packets to all border routers for those AS's
 - Propagate prunes across the AS back towards the source

























- Use random delay before sending NACK/reply
 - want at least one node to send (short delay)
 - want at most one node to send (long delay)
- Bias delay to reduce competition
 - NACK delay based on distance to source
 - Reply delay based on distance to NACK
 - distance estimated using periodic session messages











