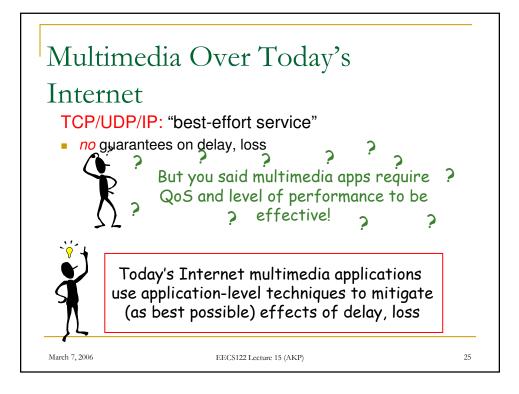
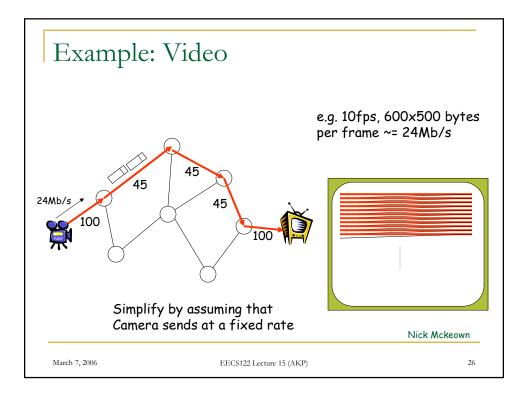
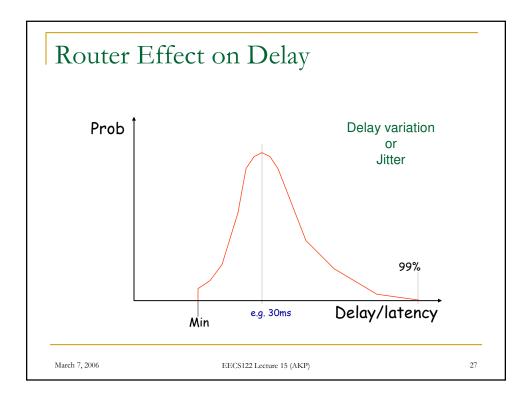
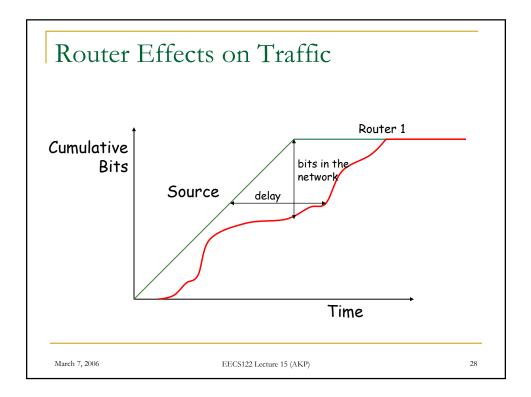


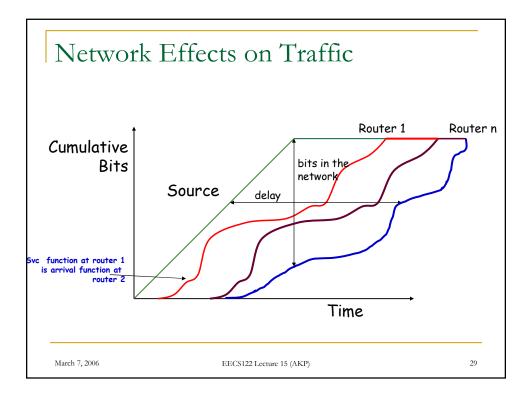
| | Best-Effort | Diffserv | Intserv |
|------------------|---|--|---|
| Service | Connectivity | Per aggregate isolation | Per flow isolation |
| | No isolation No guarantees | Per aggregate guarantee | Per flow guarantee |
| Service scope | End-to-end | Domain | End-to-end |
| Complexity | No setup | Long term setup | Per flow steup |
| Scalability | Highly scalable (nodes maintain only routing state) | Scalable (edge routers maintains per aggregate state; core routers per class state) | Not scalable (each router maintains per flow state) |

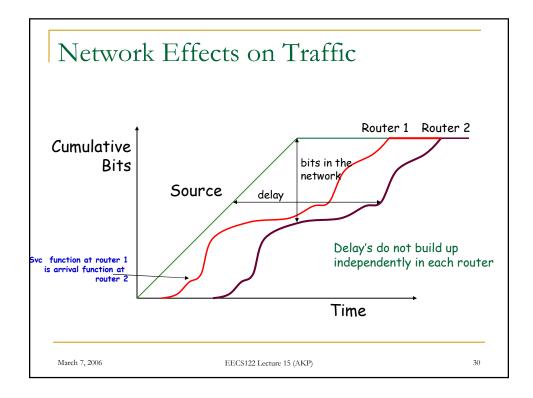


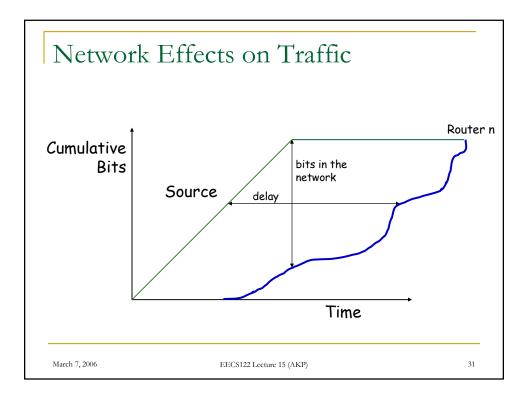


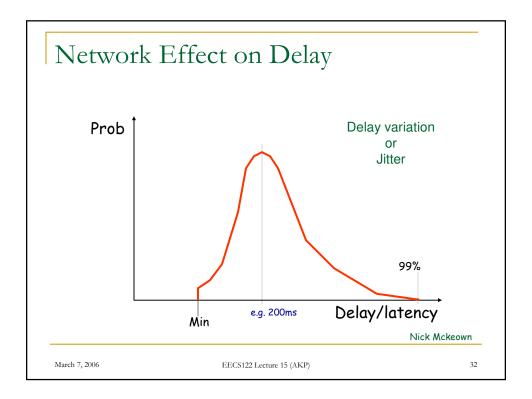


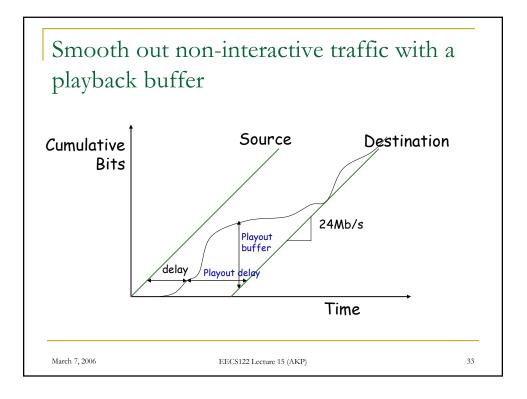


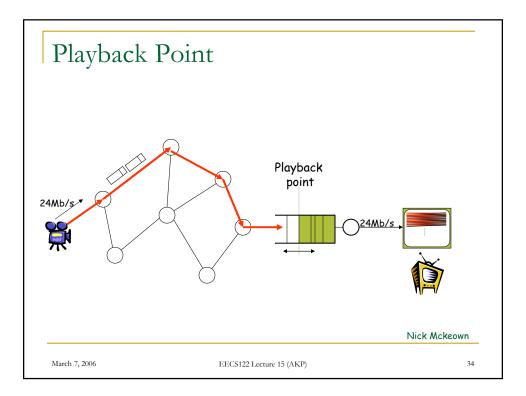


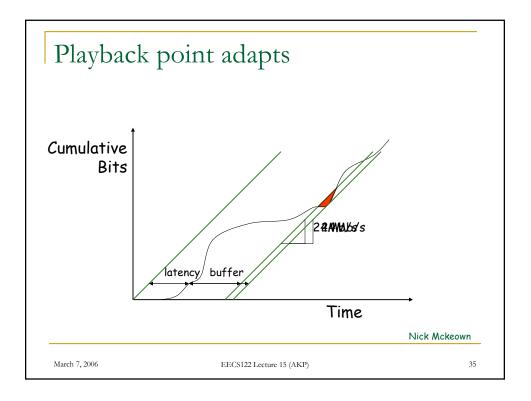


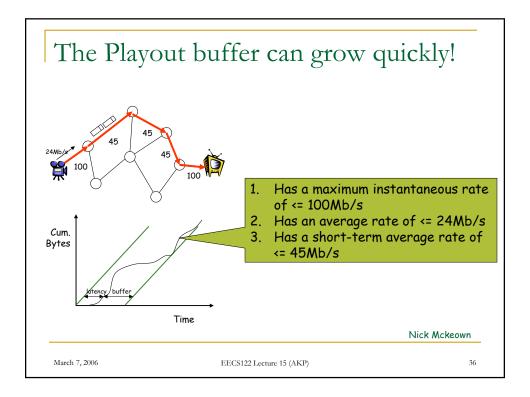


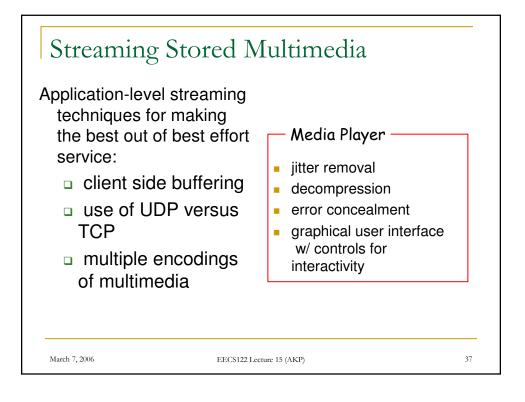


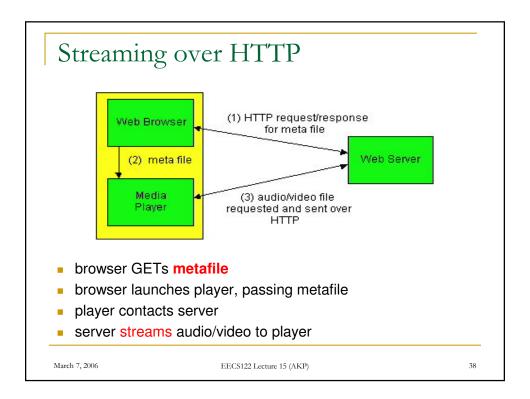


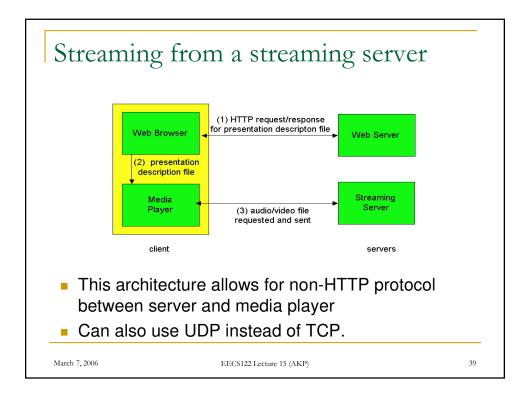


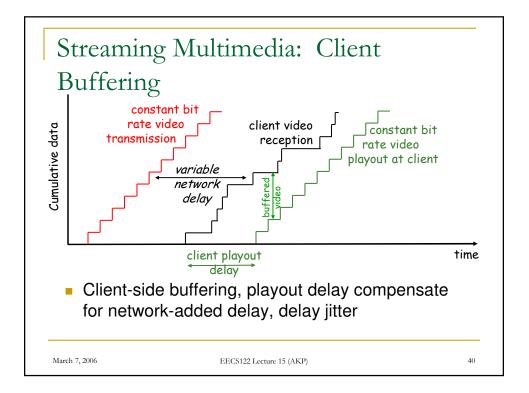


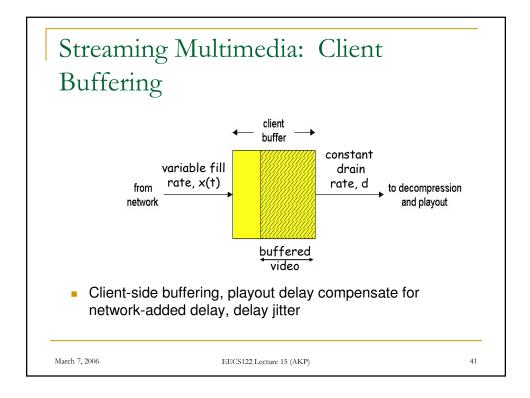


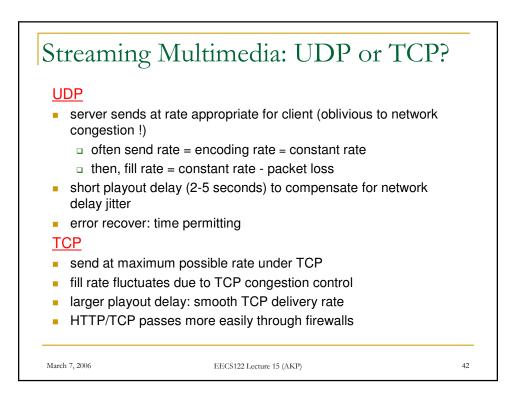


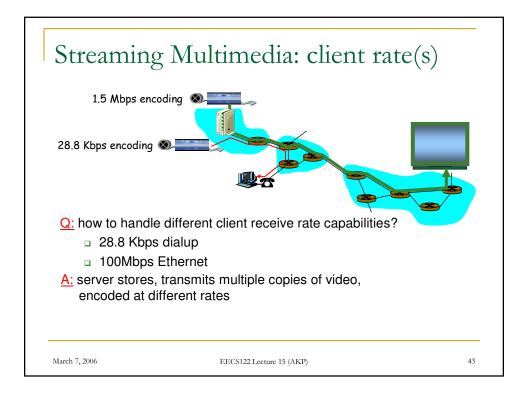


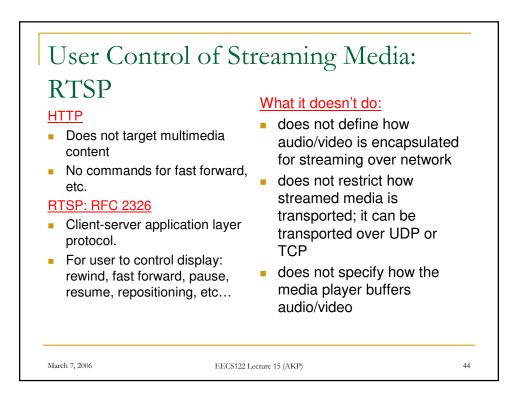


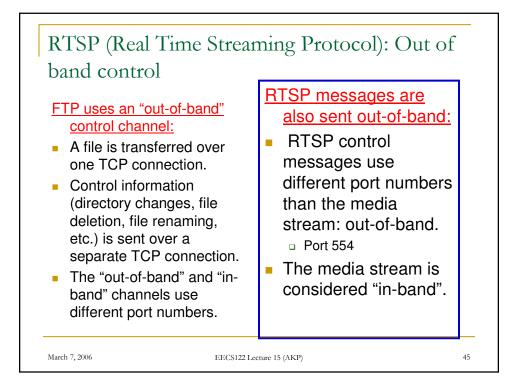


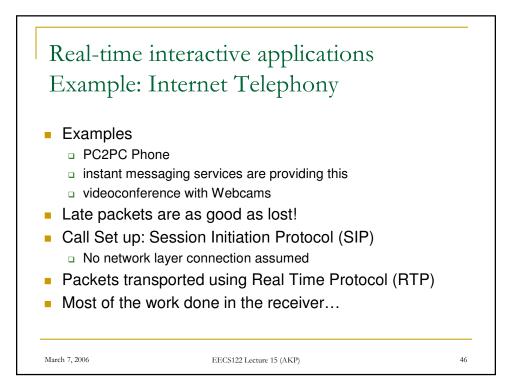


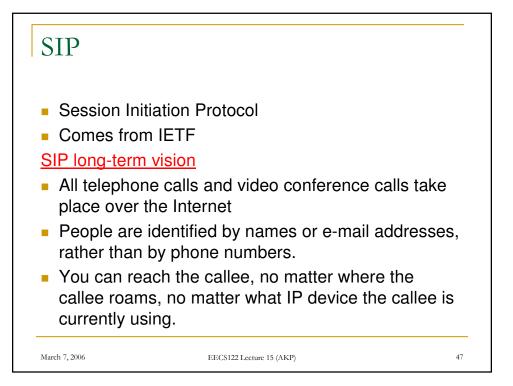


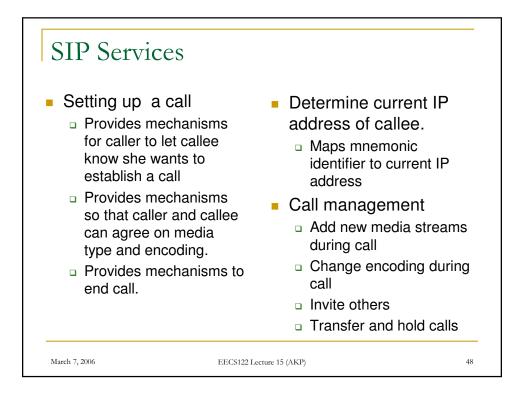


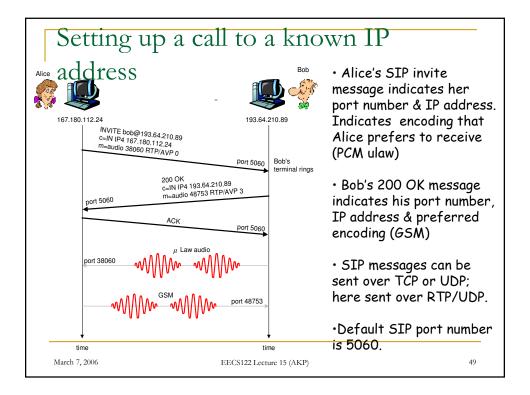


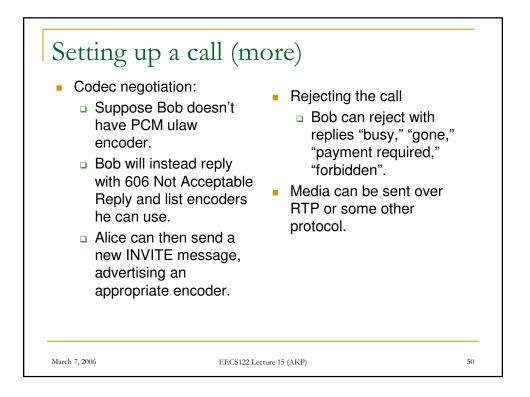


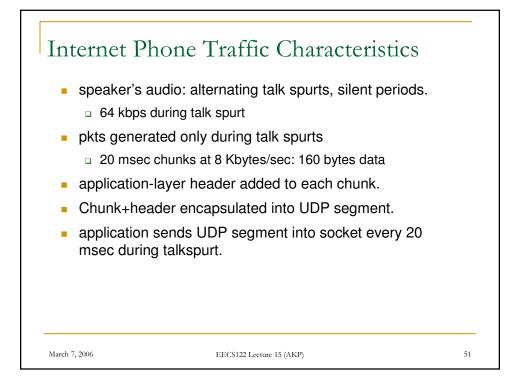


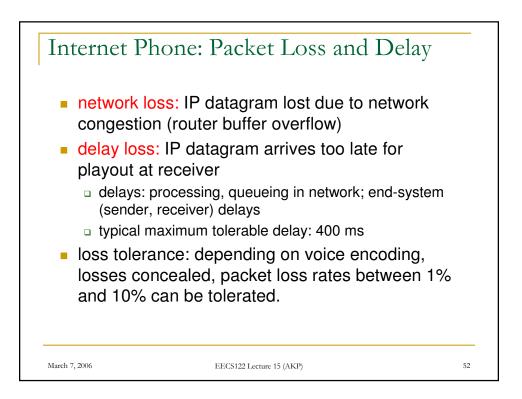


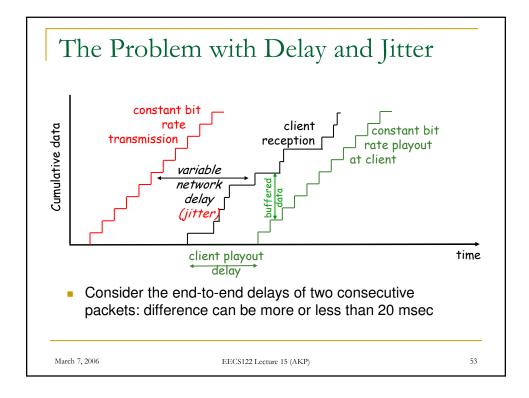


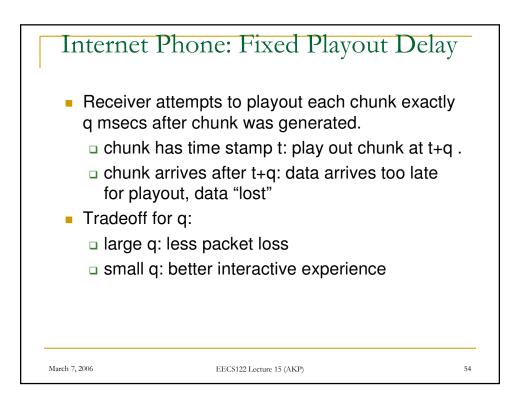


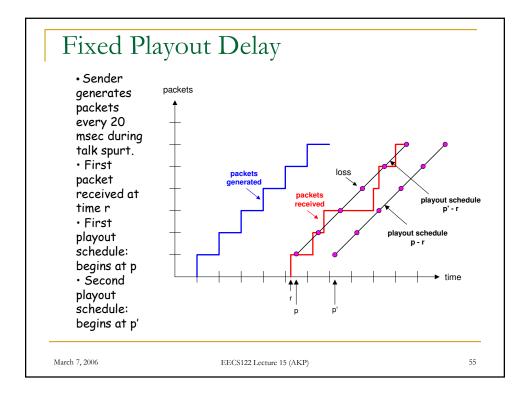


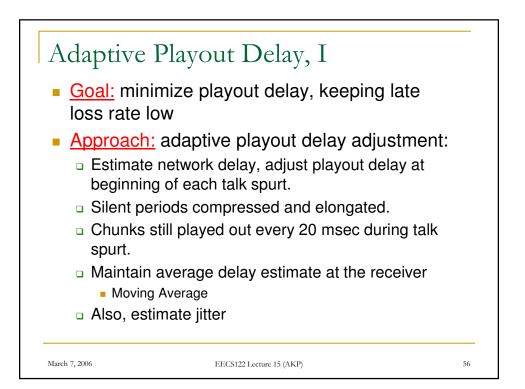


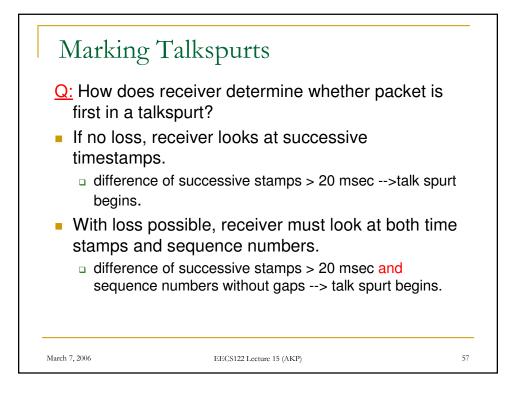












| Estimating Jitter |
|---|
| Suppose the network delay estimate when packet i arrives is D_i, but packet i itself is delayed by d_i time units. |
| The deviation from the estimate is D_i - d_i . The receiver maintains an estimate of this variation for each packet. This is J_i, its estimate of the jitter. Again, this is a moving average estimate. |
| When the first packet of a talkspurt is received, hold it in the buffer for K J_i time units to allow for time for more of the packets from the Talkspurt to arrive. Play the rest of the packets from that talkspurt out periodically |
| |
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