Algorithms for Clock Synchronisation Cristian's algorithm Client C with time to sends a time request to semer S. 5 sends C his time ts. C receives to at time to gound trip time C sets his time to ts + RTT , RTT = tr-tc Berkeley algorithm 1) There is one master node that polls its slave nodes. 2) Each slave replies to the master with its time. 3) The master <u>averages</u> the slaves' and its own time and eliminates any times with excessive RTTs. to compute one final time. (4) The master sends each slave a delta which tells them how much to add or take off to/from their clocks. Network time protocol (NTP) De Works for retworks of a larger scale (unlike Gristian, Berkeley) D There are three methods of synchronization Multicast mode Time server sends his time to all server on LAN at · Each server receives and resets its clock (assuming little Procedure call. Effectively Cristian's algorithm Requesting node sets its time to ts + RIT Most accurate, messages are exchanged and data is built up to irri-prove accuracy of synchronization over time. Messages contain timing into about the previous message received (time sent, time received, etc.)