Chiragkumar solanki

Student id: 15035

Answers:

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Answer :

Hear calculating the minimum distribution time for client server distribution , we use the following formula :

Dcs = max { NF /us, F/dmin}

Same way , for calculating minimum distribution time for P2P distrubuation , we use the this following formula :

D p2p = max {F/u, F/d min , NF/(u + ∑ ui )}

Where , f = 15 Gbits = 15 \* 1024 Mbits

Us = 30 MBps

Dmin = di = 2Mbps

Note, 3000 kbps = 300 /1024 mbps

Client server

|  |  |  |  |
| --- | --- | --- | --- |
|  | **N** | | |
| 10 | 100 | 1000 |
| 300kbps | 7680 | 51200 | 51200 |
| 700kbps | 7680 | 51200 | 51200 |
| 2mbps | 7680 | 51200 | 51200 |

Peer to peer

|  |  |  |  |
| --- | --- | --- | --- |
|  | **N** | | |
| 10 | 100 | 1000 |
| 300kbps | 7680 | 25490 | 47559 |
| 700kbps | 7680 | 15616 | 21525 |
| 2mbps | 7680 | 7680 | 7680 |

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Answers:

1. Bob claim is possible Because p2p connection depends upon how many peers there are , and as long as there enough people , bob can still receive data.
2. Bob can run a client one each machine , and allow each computer to free – ride the torrent so

That he can get the file.

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Answer:

Yes , we can configure browser to open multiple simultaneous connection to a website . the advantages of having a large number of TCP connection is the fact that the data will be transferred reliably , the data packets will be in order and lost packet will be re transmitted . A major disadvantage is that TCP has a congestion control mechanism, which will slow down the transfer of data when the connection is congested. In this instance, the transfer rate would be very slow since there are many simulations connection open at once.