

Weekly Report:

Paper Study:

The Design Trade-offs of BitTorrent-like File Sharing Protocols

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This paper gives a model on how allocating different peers' uploading rates between them will change the system's performance and fairness. First it analyzes the rate assignment strategies under the assumption of knowing maximum uploading and downloading capacities of all peers. Then the distributed algorithms that BT protocol has implemented in practice are analyzed.

This paper considers the different bandwidth between peers, while the papers I read before assume the peers' bandwidth is the same. But meanwhile, with the consideration of difference in bandwidth, it assumes that each peer always has some chunks to upload. So this paper doesn't consider the content distribution. But we know a peer's uploading rate and downloading rate are related to both the bandwidth and the content the peer has.