



























What is				
	Central	Flood	Super- node flood	Route
Whole File	Napster	Gnutella		Freenet
Chunk Based	BitTorrent		KaZaA	DHTs eDonkey 2000
		•	•	15

W	hen are p2p Useful?	]
	<ul> <li>Works well for caching and "soft-state", read-only data</li> <li>Works well! BitTorrent, KaZaA, etc., all use peers as caches for hot data</li> </ul>	-
	<ul> <li>Difficult to extend to persistent data</li> <li>Nodes come and go: need to create multiple copies for availability and replicate more as nodes leave</li> </ul>	
	<ul> <li>Not appropriate for search engine styles searches</li> <li>Complex intersection queries ("the" + "who"): billions of hits for each term alone</li> </ul>	F
• :	<ul> <li>Sophisticated ranking: Must compare many results</li> <li>Search time tends to be unpredictable</li> </ul>	
	16	6













































