

Aalto-yliopisto	
File Pull: CFT	
 Scenario: a file server offers files for partial download Like in the web (e.g., HTTP Range: header) Example: large source distributions Files may be structured (you don't need to worry about the structure) Clients can request all or parts of a file "RETRIEVE 16384 – 32768" "RETRIEVE 16384 – 32768" "RETRIEVE 131072 – " "RETRIEVE 131072 – " File content retrieval shall be according to a certain chunk size Fixed or dynamic (up to you) The chunk size and the retrieval part need not agree E.g., chunk size 1024 bytes RETRIEVE 300 – 1500 	
 Needs to be handled by the receiving client (not a protocol issue) Clients allow for complementary download in several passes 	
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Aalto-yliopisto Δ cft [-s] [-t <port>] [-p] [-q <q>] cft <host> [-t <port>] [-p] [-q <q>] [-r start:end] <file> server mode: accept incoming files from any host -s: Operate in client mode if "-s" is not specified <host> the host to send to or request from (hostname or IPv4 address) specify the port number to use (use a default if not given) -t: -p, -q: specify the loss probabilities for the Markov chain model if only one is specified, assume p=q; if neither is specified assume no loss -r: range of data to retrieve; all if not specified <file> the name of the file(s) to send Further options may be useful; up to you. Remember to do report errors (locally and across the network) as needed. You may want to do something useful if the user aborts either process (Ctrl-C). © 2010 Jörg Ott & Carsten Bormann