SevenDeadlySYNs

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**Design Specification**

1. Input
   1. Client
      * Command Input: ./client\_app [tracker IP address] [synced file system]
      * Example Command Input: ./client\_app 127.0.0.1 ~/dart\_sync
      * [tracker IP address]
      * Requirement: must be parsed by inet\_pton
      * Usage: used to connect to the tracker on a specific standard host
      * [Synced File System]
      * Requirement: must exist
      * Usage: used to sync with the tracker’s master filesystem. The tracker’s files will overwrite the local versions initially.
   2. Tracker
      * Command Input; ./tracker\_app
2. Output
   1. Client
      * Print statements that describe the client’s actions on both network and logic threads
      * File additions and deletions that the client receives from its peers that are written and committed to disk atomically
   2. Tracker
      * Print statements that describe the tracker’s actions on both network and logic threads
3. Data Flow
4. Data Structures
5. Error Conditions Detected and Reported