tracker c:\users\finn\351project\p2p_fileshare\tracker.py

Module that tracks downloads, matching peers together

Modules

os socket sys time

Functions

cleanup_seeders()
    Periodically remove seeders that haven't been heard from in a while

discover_peers()
    Listen for peers broadcasting the files they have/want

generate_metainfo(file_path)
    Given a base file, generate a .torrent file containing the metainfo
    file_path: path of base file

main(file)
    Main function that creates threads for discovery and cleanup,
    and runs main loop where peers are matched

match_peers(dl_peer)
    Match a peer to another peer that has file parts it needs
    dl_peer: peer searching for parts of the file

Data

TIMEOUT_MAX = 4294967.0
dl_peers = []
dling_peers = []
file_pieces = {}
p_len = 8
peer_timeout = 60
seeders = {}
sock = <socket.socket fd=404, family=2, type=2, proto=0, laddr=('127.0.0.1', 9000)>
tr_port = 9000
wait = 2