

input_file_path - char * output_file_path - char * key - char * GLOBAL VARIABLES keylen - int flag - int completed_jobs_ll_size - unsigned int void* arg Meta data Linked list structs completed_list_mutex - mutex active list mutex - mutex rename_files Struct work_struct_wrapper vat_args - var_arg (for input files) list - list_head dest_file_paths - char*[argc] async_job - work_struct op - int user_id - int job_id - int priority - int delete_files Struct = var_arg **Utility stuct** void* args (op dependent) job_status - int status(success/error per file) - int[argc] var_arg stat_files Struct = var_arg op_status (if op!=STAT||DELETE||RENAME) - int argc - int #EC: TimeMetadata argv - char*[argc] concat_files completed_jobs_node argc - int input_file_paths - char*[argc] list - list_head output_file_path - char * user_id - int job_id - int var_arg (filenames) status (success/error per file) - int[argc] hash_file Struct op_status (if op!=STAT||DELETE||RENAME) - int op - int input_file_path - char * output_file_path - char * file_hash - char* (to return) list api return structs compress_file input_file_path - char * output_file_path - char * list_all_jobs flag - int count - int jobs[count]

jobs user_id - int job_id - int job_status - int op - int priority - int

time_on_queue - time_t

count - int (Max: 20)

jobIDs - int[count]

poll_status

job_status - int

user_id - int

count - int

filenames - char*[]

status (success/error) - int[argc] op - int op_status - int

Input structs

enc_dec_arg Struct