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----- Strutture -----
union semun {
    int val;
    struct semid_ds *buf;
    unsigned short int *array;
    struct seminfo *__buf;
};

struct sembuf operations[...];
operations[i].sem_num = ...
operations[i].sem_op = ...
operations[i].sem_flg = ...

struct sigaction {
    void (*sa_handler)(int);
    void (*sa_sigaction)(int, siginfo_t *, void *);
    sigset_t sa_mask;
    int sa_flags;
    void (*sa_restorer)(void);
}

pthread_mutex_t mutex = PTHREAD_MUTEX_INITIALIZER;

struct sockaddr_un name;
struct sockaddr_in name;

struct sockaddr {
    sa_family_t sa_family;
    char sa_data[14];
}

struct hostent * hostinfo;

typedef void (*sighandler_t)(int);

----- Signatures -----

int accept(int s, struct sockaddr * address, socklen_t * addrlen);
void assert(scalar_expression);
int bind(int sockfd, struct sockaddr * my_address, socklen_t addrlen);
;
int chmod(const char * path, mode_t mode);
int close(int fd);
int connect(int sockfd, const struct sockaddr * serv_addr, socklen_t
addrlen);
int creat(const char * path, mode_t mode);
int dup(int oldfd);
int dup2(int oldfd, int newfd);
extern int errno;
void exit(int status);
struct hostent* gethostbyaddr(const char * address, int len, int type);
struct hostent* gethostbyname(const char * name);
int getopt_long(int argc, char * const argv[],
    const char * short_option_string,
    const struct option * long_option_struct,
    int *longindex);
    next_option = getopt_long(argc, argv, short_options,
        long_options, NULL);

extern char * optarg;
extern int optind, opterr, optopt;
uint32_t htonl(uint32_t hostlong);

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uint16_t htons(uint16_t hostshort);
int execl(const char * program_path, const char * arg, ...);
int execlp(const char * program_path, const char * arg, ...);
int execv(const char * program_path, char * const arg_list[]);
int execvp(const char * program_path, char * const arg_list[]);
int fchmod(int fd, mode_t mode);
int feof(FILE * stream);
int fflush(FILE * stream);
int fileno(FILE * stream);
int fcntl(int fd, int cmd);
int fcntl(int fd, int cmd, long arg);
int fcntl(int fd, int cmd, struct flock *lock);
pid_t fork(void);
int fprintf(FILE * stream, const char * format, ...);
size_t fread(void * ptr, size_t size, size_t nmemb, FILE * stream);
void free(void * ptr);
int fscanf(FILE * stream, const char * format, ...);
int fsync(int fd);
size_t fwrite(const void * ptr, size_t size, size_t nmemb,
FILE * stream);
pid_t getpid(void);
pid_t getppid(void);
int kill(pid_t pid, int sig);
int link(const char * oldpath, const char * newpath);
int listen(int s, int backlog);
void * malloc(size_t size);
int mkfifo(const char *pathname, mode_t mode);
int msgget(key_t key, int msgflg);
int msgsnd(int msqid, struct msgbuf *msgp, size_t msgsz, int msgflg);
ssize_t Å msgrcv(int msqid, struct msgbuf *msgp, size_t msgsz, long msgtyp, int
msgflg);
int msgctl(int msqid, int cmd, struct msqid_ds *buf);
void Å * Å mmap(void Å *start, size_t length, int prot, int flags, int fd, off_t
offset);
int munmap(void *start, size_t length);
uint32_t ntohl(uint32_t netlong);
uint16_t ntohs(uint16_t netshort);
int open(const char *pathname, int flags);
int open(const char *pathname, int flags, mode_t mode);
int pause(void);
int pipe(int filedes[2]);
int pipe_fds[2], read_fd, write_fd;
pipe(pipe_fds);
read_fd = pipe_fds[0];
write_fd = pipe_fds[1];
FILE *popen(const char *command, const char *type);
int pclose(FILE *stream);
int printf(const char * format, ...);
int pthread_create(pthread_t * thread, pthread_attr_t * attr,
void *(*start_routine)(void *), void * arg);
int pthread_cancel(pthread_t thread);
int pthread_detach(pthread_t th);
void pthread_exit(void * retval);
int pthread_join(pthread_t th, void ** thread_return);
int pthread_mutex_init(pthread_mutex_t *mutex, const pthread_mutex,
attr_t * mutexattr);
int pthread_mutex_lock(pthread_mutex_t * mutex);
int pthread_mutex_trylock(pthread_mutex_t * mutex);
int pthread_mutex_unlock(pthread_mutex_t * mutex);
ssize_t read(int fd, void * buf, size_t count);
void * realloc(void * ptr, size_t size);
int scanf(const char * format, ...);

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int sem_destroy(sem_t * sem);
int sem_getvalue(sem_t * sem, int * sval);
int sem_init(sem_t * sem, int pshared, unsigned int value);
int sem_trywait(sem_t * sem);
int sem_post(sem_t * sem);
int sem_wait(sem_t * sem);
int semctl(int semid, int semnum, int command, ...);
    command: IPC_RMID, SETALL
int semget(key_t key, int num_sems, int sem_flags);
    key : IPC_PRIVATE, ...
sem_flags : O_CREAT | S_IRWXU ,...
int semop(int semid, struct sembuf *sops, unsigned nsops);
int semtimedop(int semid, struct sembuf * sops,
unsigned nsops, struct timespec * timeout);
void * shmat(int shmid, const void * shmем_address, int shmем_flags);
int shmctl(int shmid, int command, struct shmид_ds * buffer);
command: IPC_STAT, IPC_RMID
int shmdt(const void *shmем_address);
int shmget(key_t key, size_t size, int shmем_flags);
    key : IPC_PRIVATE, ...
    sem_flags : PC_CREAT | IPC_EXCL | S_IRUSR | IWUSR, ...
sig_handler_t signal(int signum, sig_handler_t handler);
unsigned int sleep(unsigned int seconds);
int select(int n, fd_set * readfds, fd_set * writefds,
fd_set * exceptfds, struct timeval * timeout);
int snprintf(char * string, size_t size, const char * format, ...);
int socket(int domain, int type, int protocol);
    domain: PF_LOCAL, PF_INET, ...
    type : SOCK_STREAM, SOCK_DGRAM, ...
int sprintf(char * string, const char * format, ...);
int sscanf(const char * string, const char * format, ...);
char * strerror(int errnum);
void sync(void);
int system(const char * command_string);
int unlink(const char * pathname);
pid_t wait(int * status);
pid_t waitpid(pid_t pid, int * status, int options);
ssize_t write(int fd, const void *buf, size_t count);
```