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#include <errno.h>
#include <string.h>
#include <unistd.h>
#include <netdb.h>
#include <sys/socket.h>
#include <netinet/in.h>
#include <sys/select.h> //
#include <stdio.h> //
#include <stdlib.h> //

/*********/
typedef struct s_client {
    int      fd;
    int      id;
    char   *buf;
} t_client;

t_client      clients[1024];
int max_fd = 0, next_id = 0;
fd_set read_set, write_set, active_set;

void    err(char *msg, int exit_code) {
    if (!msg)
        msg = "Fatal error\n";
    write(2, msg, strlen(msg));
    exit(exit_code);
}

void    send_all(int except, char *msg) {
    for (int i = 0; i <= max_fd; i++)
        if (clients[i].fd > 0 && i != except)
            send(clients[i].fd,
msg, strlen(msg), 0);
}
/**********/

int extract_message(char **buf, char **msg)
{
    char   *newbuf;
    int      i;

    *msg = 0;
    if (*buf == 0)
        return (0);
    i = 0;
    while ((*buf)[i])
    {
        if ((*buf)[i] == '\n')
        {
            newbuf = calloc(1, sizeof(*newbuf) * (strlen(*buf + i + 1) + 1));
            if (newbuf == 0)
                return (-1);
            strcpy(newbuf, *buf
+ i + 1);
            *msg = *buf;
            (*msg)[i + 1] = 0;
            *buf = newbuf;
            return (1);
        }
        i++;
    }
    return (0);
}

char *str_join(char *buf, char *add)
{
    char   *newbuf;
    int      len;

    if (buf == 0)
        len = 0;
    else
        len = strlen(buf);
    newbuf = malloc(sizeof(*newbuf) * (len + strlen(add) + 1));
    if (newbuf == 0)
        return (0);
    newbuf[0] = 0;
    if (buf != 0)
        strcat(newbuf, buf);
    free(buf);
    strcat(newbuf, add);
    return (newbuf);
}

int main(int ac, char **av) {
    int sockfd, connfd; //
    struct sockaddr_in servaddr; //
    *****
    if (ac != 2) {
        err("Wrong number of arguments\n");
    }
    *****
    // socket create and verification
    sockfd = socket(AF_INET, SOCK_STREAM, 0);
    if (sockfd == -1) {
        //printf("socket creation failed...\n");
        //exit(0);
        err(NULL, 1);
    }
    //else
    //    printf("Socket successfully created..\n");
    max_fd = sockfd; //
    bzero(&servaddr, sizeof(servaddr));

    // assign IP, PORT
    servaddr.sin_family = AF_INET;
    servaddr.sin_addr.s_addr = htonl(2130706433); //127.0.0.1
    servaddr.sin_port = htons(atoi(av[1]));
    // Binding newly created socket to given IP and verification
    if ((bind(sockfd, (const struct sockaddr *)&servaddr, sizeof(servaddr))) != 0) {
        //printf("socket bind failed...\n");
        //exit(0);
        err(NULL, 1);
    }
}

```

