```
(base) andre@DESKTOP-UMIB7RM:/mnt/c/Users/andre/OneDrive/Systems/LabOR$ ./server
Data from client: 1 2
Data from client: 2 3

[]

(base) andre@DESKTOP-UMIB7RM:/mnt/c/Users/andre/OneDrive/Systems/LabOR$ ./client 1 2
The sum of 1 and 2 is 3
(base) andre@DESKTOP-UMIB7RM:/mnt/c/Users/andre/OneDrive/Systems/LabOR$ ./client 1 2
The sum of 1 and 2 is 3
(base) andre@DESKTOP-UMIB7RM:/mnt/c/Users/andre/OneDrive/Systems/LabOR$ ./client 2 3
The sum of 1 and 2 is 3
(base) andre@DESKTOP-UMIB7RM:/mnt/c/Users/andre/OneDrive/Systems/LabOR$ ./client 2 3
The sum of 1 and 2 is 3
(base) andre@DESKTOP-UMIB7RM:/mnt/c/Users/andre/OneDrive/Systems/LabOR$ ./client 2 3
The sum of 1 and 2 is 3
(base) andre@DESKTOP-UMIB7RM:/mnt/c/Users/andre/OneDrive/Systems/LabOR$ ./client 2 3
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(base) andre@DESKTOP-UMIBTRM:/mnt/c/Users/andre/OneDrive/Systems/LabOR$ ./client 2 3
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The sum of 1 and 2 is 3
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The sum of 1 and 2 is 3
(base) andre@DESKTOP-UMIBTRM:/mnt/c/Users/andre/OneDrive/Systems/LabOR$ ./client 2 3
The sum of 1 and 2 is 3
(base) andre@DESKTOP-UMIBTRM:/mnt/c/Users/andre/OneDrive/System
```

```
***********
#include <arpa/inet.h>
#include <netdb.h>
#include <netinet/in.h>
#include <stdio.h>
#include <string.h>
#include <sys/socket.h>
#include <unistd.h>
#include <stdlib.h>
int main(int argc, char **argv) {
   int sock;
   int arg1, arg2;
   int i;
   int rc;
   struct sockaddr address;
   socklen t addrLength = sizeof(address);
   struct addrinfo hints;
   struct addrinfo *addr;
   char *message;
```

```
hints.ai socktype = SOCK DGRAM;
hints.ai_flags = AI_PASSIVE | AI_ADDRCONFIG;
if((rc = getaddrinfo(NULL, "4321", &hints, &addr))) {
   printf("host name lookup failed: %s\n", gai strerror(rc));
   exit(1);
sock = socket(addr->ai family, addr->ai socktype, addr->ai protocol);
if(sock < 0) {
   printf("Can't create socket\n");
   exit(1);
setsockopt(sock, SOL SOCKET, SO REUSEADDR, &i, sizeof(i));
rc = bind(sock, addr->ai addr, addr->ai addrlen);
if(rc < 0) {
   printf("Can't bind socket\n");
   exit(1);
freeaddrinfo(addr);
```

```
while(1) {
        recvfrom(sock, (char*) &arg1, sizeof(arg1), 0, (struct sockaddr*)
&address, &addrLength);
        recvfrom(sock, (char*) & arg2, sizeof(arg2), 0, (struct sockaddr*)
&address, &addrLength);
       printf("Data from client: %d %d\n", arg1, arg2);
       arg1 = arg1 + arg2;
       sendto(sock, (char *) &arg1, sizeof(arg1), 0,
                (const struct sockaddr*) &address, addrLength);
   close(sock);
   exit(0);
#include <arpa/inet.h>
#include <netdb.h>
#include <netinet/in.h>
#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#include <sys/socket.h>
```

```
#include <unistd.h>
int main(int argc, char **argv) {
   struct addrinfo hints;
   struct addrinfo *addr;
   int rc;
   int sock;
   int result;
   int arg1, arg2;
   if (argc != 3) {
       printf("Usage: client num1 num2\n");
       exit(1);
   arg1 = atoi(argv[1]);
   arg2 = atoi(argv[2]);
   hints.ai socktype = SOCK DGRAM;
   hints.ai flags = AI ADDRCONFIG;
   rc = getaddrinfo("localhost", NULL, &hints, &addr);
       printf("Host name lookup failed: %s\n", gai strerror(rc));
       exit(1);
```

```
sock = socket(addrinfo->sin family, addr->ai socktype,
addr->ai protocol);
   if(sock < 0) {
       printf("Can't create socket\n");
       exit(1);
   addrinfo->sin port = htons(4321);
   freeaddrinfo(addr);
   sendto(sock, (char*) &arg1, sizeof(arg1), 0,
            (const struct sockaddr*) addrinfo, addr->ai addrlen);
   sendto(sock, (char*) &arg2, sizeof(arg2), 0,
            (const struct sockaddr*) addrinfo, addr->ai addrlen);
   recvfrom(sock, (char*) &result, sizeof(result), 0, NULL, NULL);
   printf("The sum of %d and %d is %d\n", arg1, arg2, result);
   close(sock);
```