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*   *   *   *   *

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## APPENDIX- A

1. Sample of Database Files of Size 1.6 MB, 3.1 AND 6 MB used by NBDS and CBDS Distributed Systems.

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2. C Program to transmit data files for Comport Based Distributed System (CBDS).

```c
#include <dos.h>
#include <stdio.h>
#include <conio.h>
#define PORT1 0x3F8
void main(void)
{
    int c;
    int ch;

    FILE *ft;
    ft=fopen("c:\s.txt","r");
    if(ft==NULL)
    {
        puts("Cannot open file");
        exit();
    }
    outportb(PORT1 + 1 , 0); /* Turn off interrupts - Port1 */

    /* PORT 1 - Communication Settings */
    outportb(PORT1 + 3 , 0x80); /* SET DLAB ON */
    outportb(PORT1 + 0 , 0x03); /* Set Baud rate - Divisor Latch Low Byte */
    /* Default 0x03 = 38,400 BPS */
    outportb(PORT1 + 1 , 0x00); /* Set Baud rate - Divisor Latch High Byte */
    outportb(PORT1 + 3 , 0x03); /* 8 Bits, No Parity, 1 Stop Bit */
    outportb(PORT1 + 2 , 0xC7); /* FIFO Control Register */
    outportb(PORT1 + 4 , 0x0B); /* Turn on DTR, RTS, and OUT2 */
    clrscr();
    printf("The file transfer process is started now.......\n");
    while(1) {
        ch=fgetc(ft);
        if (ch==EOF)
            break;
        else
            outportb(PORT1, ch);
    } /* Send Char to Serial Port */
    printf("file has been sent succesfully");
    fclose(ft);
}
/* **********END OF PROGRAM***********/
```

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3. C program to receive data using Comport Based Distributed System (CBDS).

```c
#include <dos.h>
#include <stdio.h>
#include <conio.h>
#define PORT1 0x3F8

void main(void)
{
    int c;
    int ch=0;
    FILE *fr;

    fr=fopen("d:\r.txt","wt");
    if(fr== NULL)
    {
        puts("can not open file");
        exit();
    }
    outportb(PORT1 + 1 , 0); /* Turn off interrupts - Port1 */
    /* PORT 1 - Communication Settings */
    outportb(PORT1 + 3 , 0x80); /* SET DLAB ON */
    outportb(PORT1 + 0 , 0x03); /* Set Baud rate - Divisor Latch Low Byte */
    /* Default 0x03 = 38,400 BPS */
    outportb(PORT1 + 1 , 0x00); /* Set Baud rate - Divisor Latch High Byte */
    outportb(PORT1 + 3 , 0x03); /* 8 Bits, No Parity, 1 Stop Bit */
    outportb(PORT1 + 2 , 0xC7); /* FIFO Control Register */
    outportb(PORT1 + 4 , 0x0B); /* Turn on DTR, RTS, and OUT2 */
    clrscr();
    printf("n Wait file will be receiving \n");
    while(ch!=90)
    {
        c = inportb(PORT1 + 5); /* Check to see if char has been */
        /* received. */
        if (c & 1) {ch = inportb(PORT1); /* If so, then get Char */
            fputc(ch,fr);
        }
    }
    fclose(fr);
}

/**********END OF PROGRAM**********/
```
APPENDIX- B

1. Sample of Database Text Files of Size 1.6 MB, 3.1 AND 6 MB used by CBDS.

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#include "TFTP.h"
#include "source\States.c"

void main()
{
    state = INIT;
    InitDevices();

    while(TRUE){
        switch(state){
            case INIT    : State_Init();
                break;
            case MENU    : State_Menu();
                break;
            case DETECT  : State_Detect();
                break;
            case DHO     : State_DHO();
                break;
            case INCALL  : State_IncomingCall();
                break;
            case VNET    : State_VirtualNetwork();
                break;
            case ENET    : State_ExistingNetwork();
                break;
            case COMP    : State_Computer();
                break;
            case DIAL    : State_Dial();
                break;
            case OUTCALL : State_OutCall();
                break;
        }
    }
}

/* **********END OF PROGRAM***********/