MIT WORLD PEACE UNIVERSITY

Operating Systems Second Year B. Tech, Semester 3

COPY UTILITY USING C

ASSIGNMENT 9 PRACTICAL REPORT

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1 Code

```
1 // copy utility
2 #include <fcntl.h>
#include <stdio.h>
#include <stdlib.h>
5 #include <unistd.h>
6 char buffer[2048]; // the uninitalized data is the arrray buffer.
7 int version = 1;
8 void copy(int fdold, int fdnew)
9 {
      int count;
10
      while (read(fdold, buffer, sizeof(buffer)))
11
12
          printf("%s", buffer);
13
          write(fdnew, buffer, sizeof(buffer));
14
15
16
      close(fdold);
      close(fdnew);
17
18 }
void main(int argc, char *argv[])
20
      int fdold, fdnew;
21
      if (argc != 3)
22
23
          printf("need 2 arguements for copy program:\n");
24
25
           exit(1);
26
      fdold = open(argv[1], O_RDONLY);
27
28
      if (fdold == -1)
29
          printf("We cant open the file");
30
           exit(1);
31
      }
32
      fdnew = creat(argv[2], 0666);
33
      if (fdnew == -1)
34
35
          printf("We cant open the file");
36
          exit(1);
37
38
      // read(fdold, buffer, sizeof(buffer));
39
      // printf("%c", buffer);
40
41
      copy(fdold, fdnew);
      close(fdold);
42
      close(fdnew);
43
44 }
```

Listing 1: Assignment 9

2 Input and Output

```
MIT
WPU
PUNE
```

Listing 2: Input File

OS Assignment 9

- WPUPUNE

Listing 3: Output File

PA 20. A.1 Lab - Assignment _] 30 11 22 (P.) How does copy command work! explain duggeout options. cp - copies files and directories. CP [OPTIONS] ... SOURCE ... DIRECTORY_DEST it copies files or folders at some to distination directory, of multiple sources to distinction dissertory: Some options (1) cp -- attributes - only · · · · would only copy attibutes and not the data. (2) cp - +, -- force If the existing destination file cont be opened, Gernone it and try again. (3) cp. -r, - reassin. copy discoveries secuseively,

(8.2) Explain Wolking of System collersend, write, open, dose read (int ofd, roid * buf, size-t count); From the file indicated by file descriptor Id, read court bythe of isput into memory area indicated by but. -> wouth (int Ad, void * but, size-t count); voite ont bytes from buy to file of socket associated with ofd. -> open (const ches * path, int plage [, int mode]); → vert to open a file for scading of writing or both depending on given flags. -> close (int Ad): Tells the operating system that you are done with the file pointed

by for; and and to don it.

\$3 explais op -p. -> cp -p. .. or cp --preserve =[Attr list] preserves the specified attributes (default : mode, Ownership, timestamp), and if possible additioned attributes like context tist links, xattr, all.