Assignment no - 8

Title - Implement DOS commands

Problem statement - Write X86 menu driven assembly language program to implement OS (DOS) commands TYPE, COPY and DELETE using file operations. User is supposed to provide command line arguments in all cases.

Objective - To understand how to implement OS (DOS) commands using file operations

Outcome - students will study different DOS commands and file operations.

S/W and H/W packages - Core i3/i5/i7, OS Linux 32/64 bi NASM, gedit, GDB debugger.

Theory -

Type command

① Open file in read mode using open interrupt
② Read contents of file using read interrupt
③ Display contents of file using write interrupt
④ Close file using close interuppt.

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Copy command-

① Open file in read mode using open interrupt.
② Read contents of file using read interrupt
③ Create another file using read interrupt change only attribute
④ Open another file using open interrupt
⑤ Write contents of buffer into opened file
⑥ Close both files using close interrupt

Delete command-

① Delete using delete interrupt

DOS commands-

DOS commands are the commands available in MS-DOS that are used to interact with the operating system and other command line based software.

Unlike in windows, DOS commands are the primary way in which you use the os. Linux and other modern os : use graphics based system desgined for touch or mouse

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Algorithm -

Copy command -

1. Start
2. Pop no. of argument, exec arguments and source filename
3. Save source file name
4. Pop destination filename
5. Save destination filename
6. Open file for reading
7. Open or create file for writing
8. Close source file
9. Close destination file
10. Exit.

Delete command -

1. Start
2. Pop no. of arguments exec arguments and source filename
3. Save source filename
4. Delete file
5. Exit

Type command -

1. Start
2. Pop no. of arguments, exec arguments and source filename
3. Save source file name
4. Open the file for reading
5. Write to the terminal
6. Close source file
7. Exit

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Conclusion - Hence we implemented DOS commands and implement type, copy and delete file through DOS commands.

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