

Assignment No. 8

Title :- implement Dos command

problem statement :- Write x86 menu-driven assembly language program to implement OS (Dos) commands TYPE, COPY & DELETE using file operations. User suppose to provide command line argument in all cases.

Objective :-

To understand how to implement OS (Dos) command using file operation.

Outcome:-

student will study different DOS commands & file operations.

slw & h/w used :-

core i3/i5/i7

OS linux 32/64 bit

NASM

gedit

GDB debugger

Theory -

TYPE command -

- Open file in read mode using open interrupt.
- Read the content of file using read interrupt.
- Display content of file using write interrupt.
- Close file using close interrupt.

COPY command -

- Open file in read mode using open interrupt.
- Read content of file using read interrupt.
- Create another file using read interrupt change only attribute.
- Open another file using open interrupt.
- Write the content of buffer into opened file.
- Close both files using close interrupt.

DELETE command -

- Delete the file using DELETE interrupt.

DOS commands -

DOS commands are commands available in MS-DOS that are used to interact with OS & other command-line based SW.

Unlike the windows, Dos commands are primary way in which you use the OS. win & and other modern OS use graphics based system designed for touch or mouse.

Algorithm:-

• COPY command-

- i) start
- ii) pop no. of arguments, exec arguments & source filename
- iii) save source file name
- iv) pop destination filename
- v) save destination filename
- vi) open file for reading
- vii) open or create file for writing
- viii) close source file.
- ix) close destination file
- x) Exit.

• DELETE command:-

- i) start
- ii) pop no. of arguments, exec arguments & source filename
- iii) save source file name
- iv) Delete file
- v) Exit

TYPE Command -

- i) start
- ii) pop no. of arguments, exec args & source file name
- iii) save source file name
- iv) open the file for reading
- v) write to the terminal
- vi) close source file
- vii) exit.

Conclusion -

Hence we implemented Dos commands & implemented type, copy & delete file through Dos commands.