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classmate report

experiment 2 Static I dynamic limbing -

are processed so as to make them operational.

The two types of linking are state and dynamic linking: 1) State linking: The linker copies all library routines used in the program into executible image. This method requires more Space but does not require prescence of library in the system white running, thus being faster and more portable. 2) Dynamic linking: Pynamic linking is performed during runtime. This linking is accomplished by placing the man name of a shareable library (i.e. a reference to the library) in the executible image. It requires len memory space as multiple program can

share a single copy of the library.

For state linking, we used the ax command. ax: or chiver command in unix like system

r: teplace existing or new tiles.

C 2: geate new archin it does not exist

S: Write an index or symbol title table

For dynamic linking we used the gcc-ffIc and export command:

gcc-fPIC: Compiles wdes as position independent code, surtable for dynamic linking. - fPIC stands for position independent code.

export: 9t is used to make symbols defined in shared libraries accentible to other programs. for cx- texport LD_IIBRARY_PATH self the library search path.

(path to shared library)

The gcc-c command compiles a file without linking.