ASSIGNMENT 0.1

Understanding Program Compilation Process

GCC command-line options that pauses the compilation of the program.

1. Preprocessing:

In this process, it convert .c file into .i file. In which it do Header file inclusion, Macro substitution (define), comment removal, condition compilation.

COMMANDS:

gcc –E hello.c > hello.i

2. Compiler:

Now preprocessor (.i) file will give to compiler and give assembly instructions (.s) file as an output.

COMMANDS:

gcc –S hello.i

3. Assembler:

In this it take Assembly instruction as input that is (.s) file and give object file (.o).

COMMANDS:

gcc –c hello.s

4. Linker:

It take an object file as input and combine together and form final Executable file and give output ./a as output file.

gcc -o hello.s

And in last to compile ./a.out