

Compiler

Compilation system:

- hello.c (source program, text)
- hello.i (modified source program, text) preprocessor (cpp)
 - modifies according to # directives (#include<stdio.h>)
- hello.s (assembly program, text) compiler (cc1)
 - assembly
 - language program (statement equals 1 low level machine language instruction)
 - assembly language common compiler output for different high level languages
- hello.o (relocatable object programs, binary) assembler (as)
 - to binary file (relocatable object program) whose bytes encode machine language instructions
- hello (executable object program, binary) linker (ld) (linked with printf.o)
 - linker merges standard c library functions (executable object file)

sources:

- Computer Systems: A Programmers Perspective pg 4-7