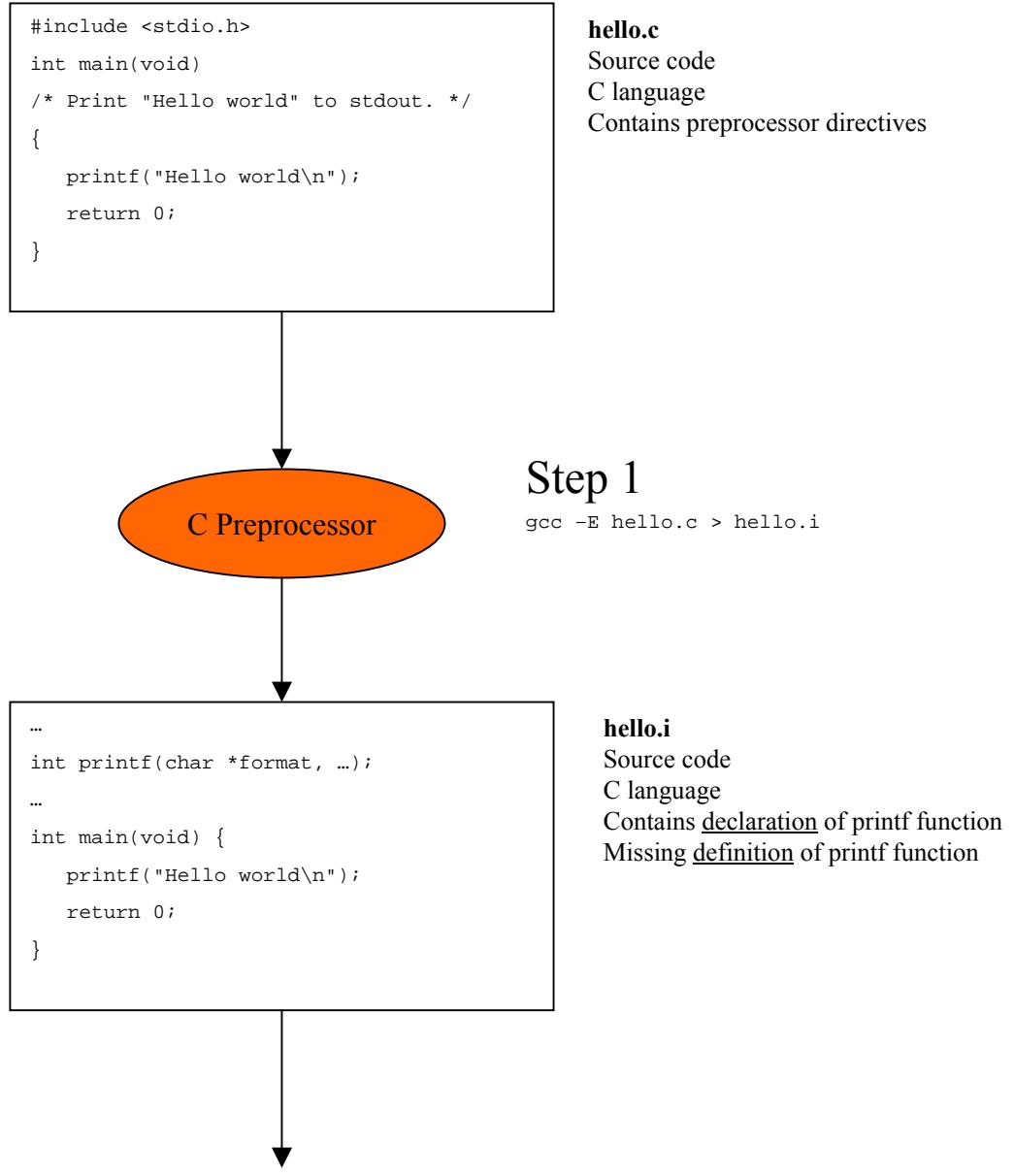


Princeton University
COS 217: Introduction to Programming Systems
The gcc Command



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```
graph TD; A([C Compiler]) --> B[hello.s]; B --> C([Assembly]); C --> D([Linker]); D --> E([Executable])
```

C Compiler

Step 2

gcc -Wall -ansi -pedantic -S hello.i

```
.section .rodata
pcGreeting:
.string "Hello world\n"
.section .text
.globl main
.type main,@function
main:
    pushl %ebp
    movl %esp, %ebp
    pushl $pcGreeting
    call printf
    addl $4, %esp
    movl $0, %eax
    movl %ebp, %esp
    popl %ebp
    ret
```

hello.s

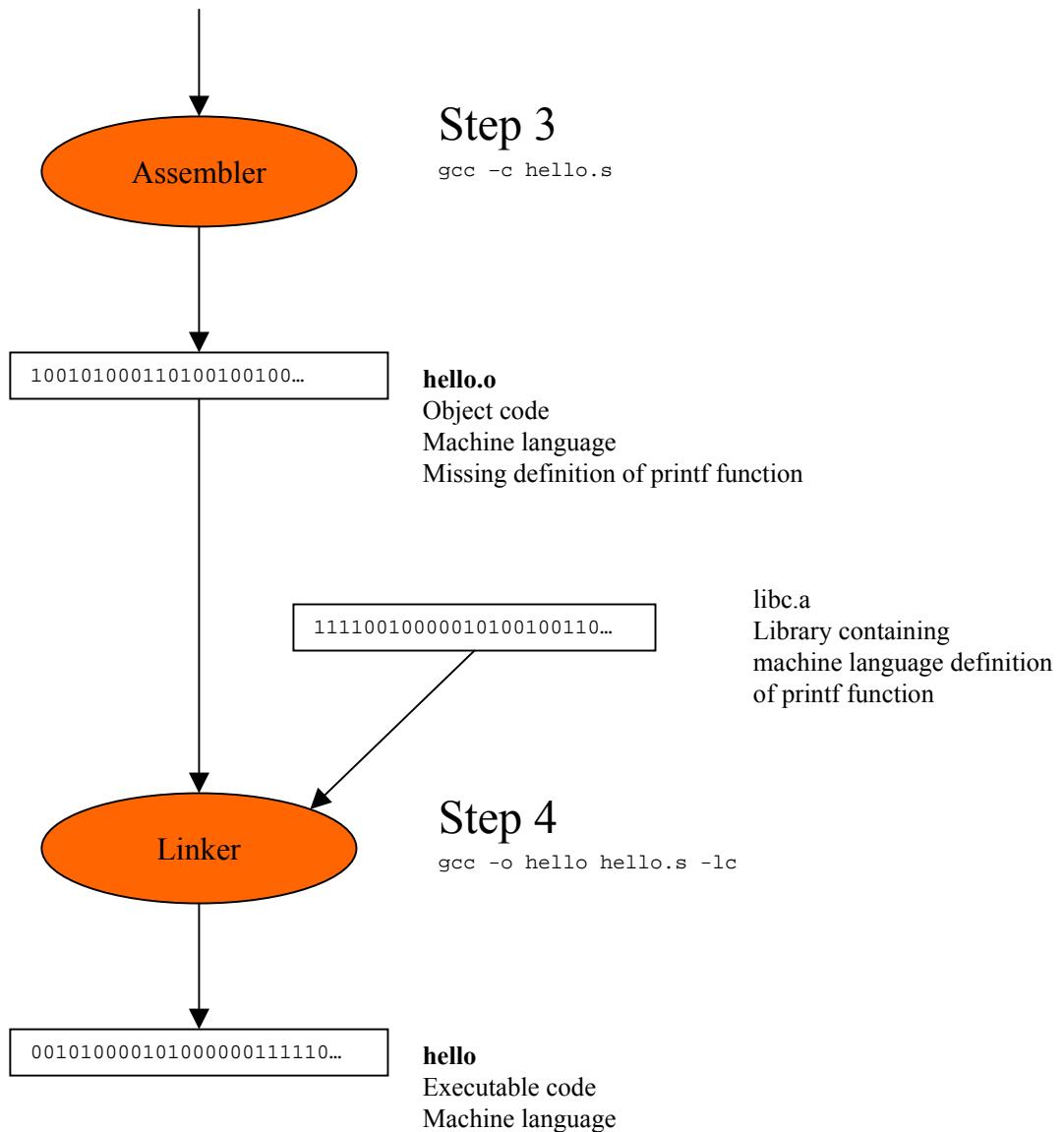
Source code

Assembly language

Missing definitions of printf function

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Shortcut:

```
gcc -Wall -ansi -pedantic -o hello hello.c
```