嵌入式微處理器系統設計 – Linux

課程編號：EE5019701

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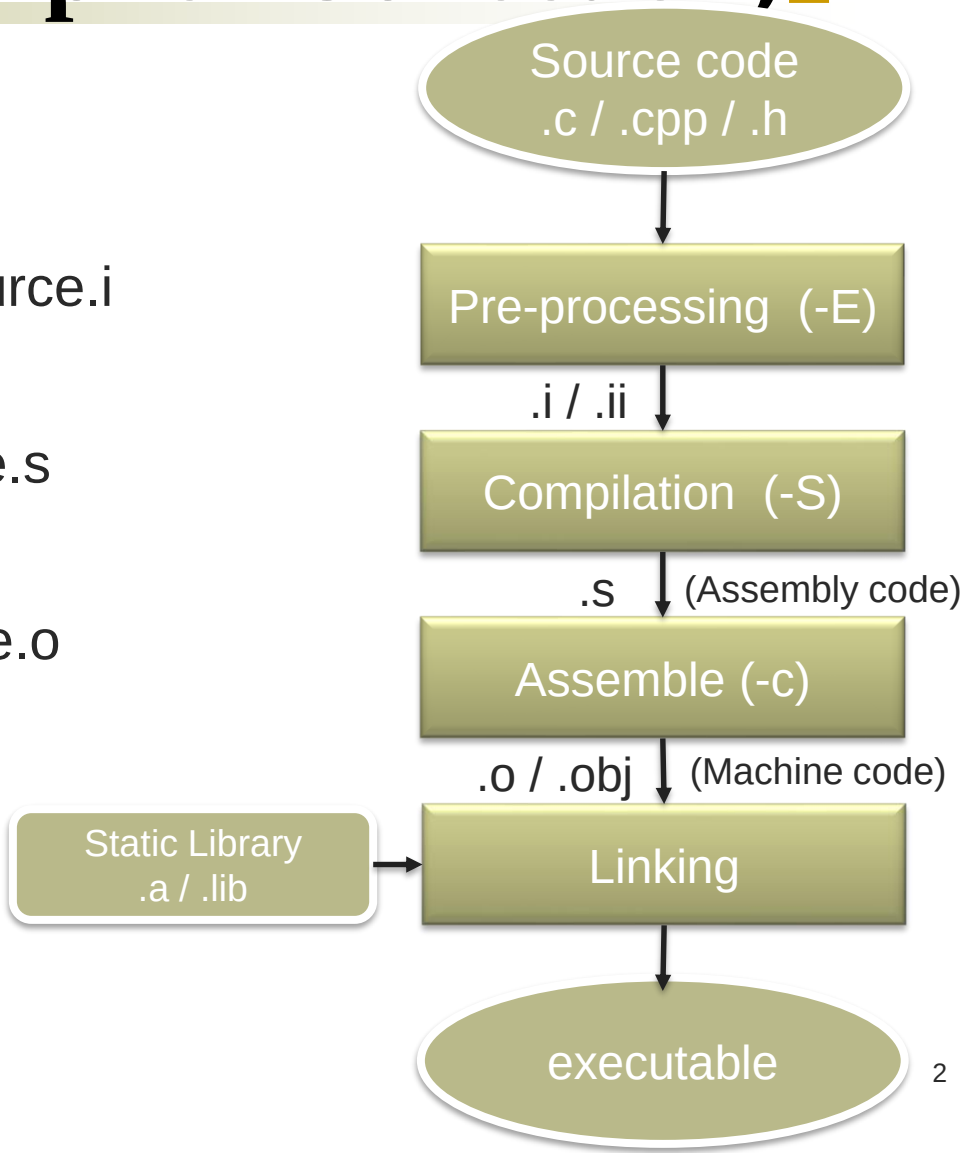
GCC (GUN Compiler Collection)

G++ Compilation Process

- Pre-processing
  - g++ -E source.cpp -o source.i
- Compilation
  - g++ -S source.i -o source.s
- Assemble
  - g++ -c source.s -o source.o
- Linking
  - g++ source.o -o app

Usually, just

- g++ source.cpp -o app



Makefile

- **Create a file named “Makefile”**

- **Rules:**

  target: (dependencies)

  (Tab) command(s)…(\)

- **Executing a Makefile**

  make

  make clean

```
pa2: pa2.o hello.o
    g++ pa2.o hello.o -o pa2 -O2

pa2.o: pa2.cpp hello.h
    g++ -c pa2.cpp -O2

hello.o: hello.cpp hello.h
    g++ -c hello.cpp -O2

clean:
    rm -f pa2 *.o
```

Linux 安裝

- **虛擬機:**
  - VMware安裝Ubuntu (參考:VMware安裝Ubuntu.pdf on Moodle)

- MSYS2:
  - https://www.msys2.org/

MSYS2 安裝包下載

- **Vi / Vim 安裝**
  - pacman -S vim
- **Makefile 安裝**
  - pacman -S make
- **GCC安裝**
  - pacman -S mingw-w64-x86_64-gcc

Challenge2

- Lab1~Lab7
  - compress the submitted file and name it with your student ID and upload it to the Moodle

References

- Vmware安裝Ubuntu.pdf
  - Download the file from Moodle
- Tutorial.pdf
  - Download the file from Moodle