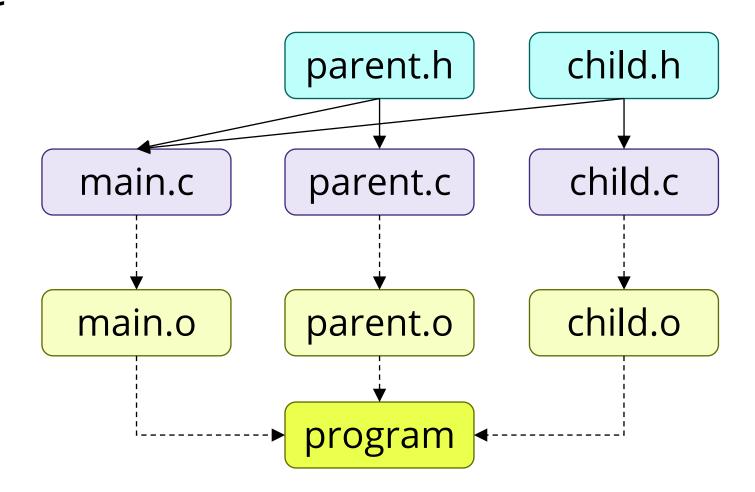
# **Build Tools 1**

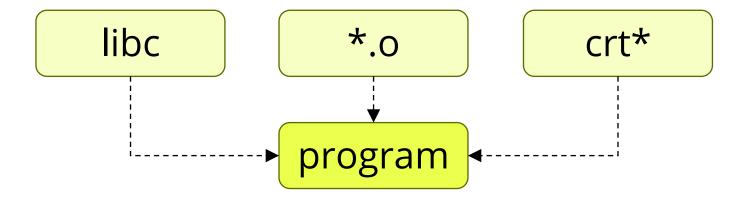
COMS10012 Software Tools

C





# Linking in C





#### Makefiles

```
TARGET: SOURCEFILES
```

- » COMMAND
- >> COMMAND...

```
GNU nano 4.3
··spaces
» tab
```



#### Makefiles

```
$ make
gcc -c main.c -o main.o
gcc -c parent.c -o parent.o
gcc -c child.c -o child.o
gcc main.o parent.o child.o -o ipc
$ make
make: 'ipc' is up to date.
$ touch main.c
$ make
gcc -c main.c -o main.o
gcc main.o parent.o child.o -o ipc
```

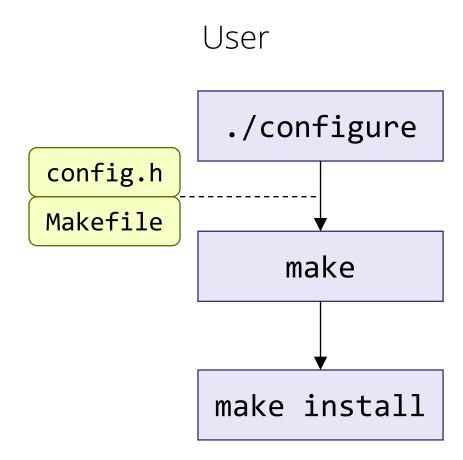


### Makefiles

```
.PHONY: clean
clean:
    rm -f *.o ipc
```



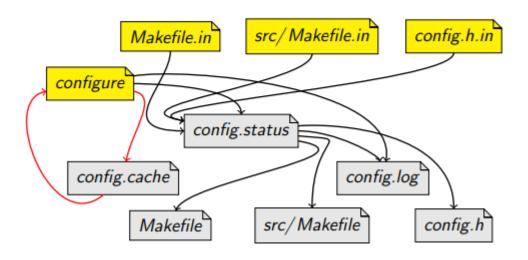
## Configure





## Configure

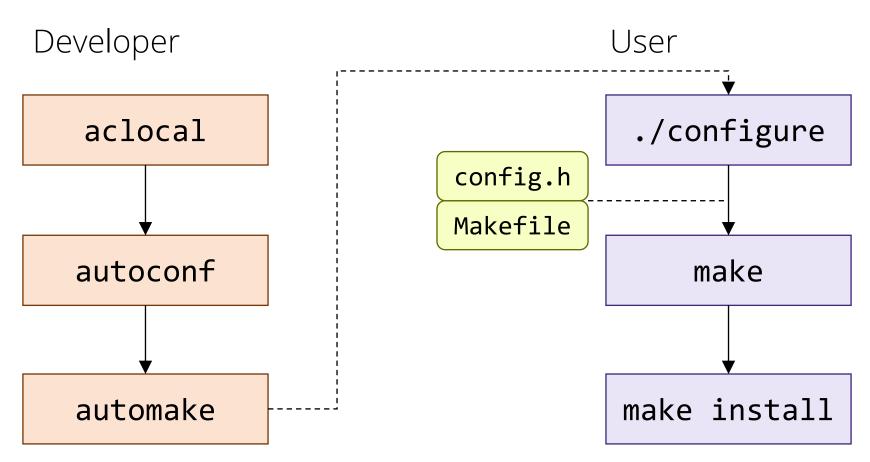
#### The (real) configure process



https://www.lrde.epita.fr/~adl/dl/autotools.pdf



## Configure





#### aaaaaaaaa





## Package managers

- Pre-built packages for each supported platform/architecture.
- One line to install.
- Repository of supported packages.
- Automatic dependency management.
- Automatic, or at least easy, updates.

