
Makefile

Make

□ Make :

□ Make :

□ make

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□ Makefile : make 가 application
make가 .

□ : make [-f makefile] [option] ... target ...

Makefile

- Makefile
 - Make file (target), (dependency), (command)
 - (target) : object . (action)
 - (dependency) : target
 - (command) : make가 action. 가 . (shell)
-) target ...: dependency ...
command
...
- command Tab . Tab
target command .

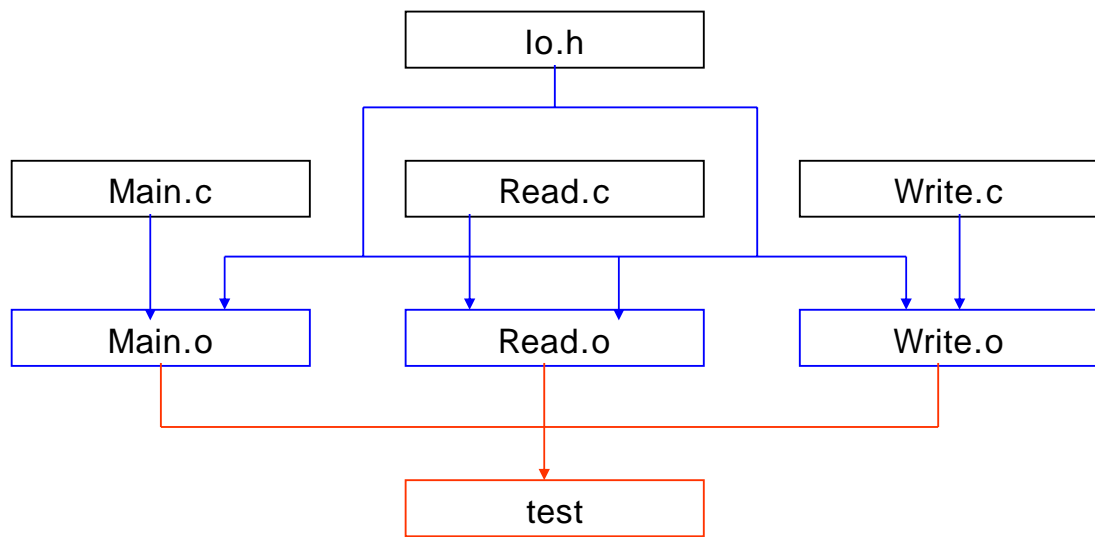
- application
- Mskefile


```
test : main.o read.o write.o
    gcc -o test main.o read.o write.o

main.o : io.h main.c
    gcc -c main.c

read.o : io.h read.c
    gcc -c read.c

write.o: io.h write.c
    gcc -c write.c
```



target

- ☐

dependencies
command
dependencies
target
- ☐

target
가
command
dependencies
target
가
- ☐

makefile
target
dependencies
- ☐

Default goal
target

Macro



- MacroName = macro - content



- \${MacroName}



Macro



Make macro makefile



Pre-defined macro

- Make -p make (,)

Macro

OBJECTS = main.o read.o write.o

SRCS = main.c read.c write.c <-

CC = gcc <- gcc

CFLAGS = -g -c <- gcc -g 가

TARGET = test <- test

\$(TARGET) : \$(OBJECTS)

\$(CC) -o \$(TARGET) \$(OBJECTS)

lean :

rm -rf \$(OBJECTS) \$(TARGET)

main.o : io.h main.c <- (1) macro CFLAGS setting

read.o : io.h read.c <- make가

write.o: io.h write.c

- Make makefile 가
- 가 make
- pre-defined macro default make가
- make .
- makefile
- Macro (1) .
 -) > ls
 - sample.c
 - > make sample
 - cc sample.c -o sample
 - > ls
 - sample sample.c

macro

- makefile .
 - (suffix)
- macro : .SUFFIX
 - Makefile .
 - : .SUFFIX: old_suffix .new_suffix
 - : .SUFFIX: .c.o
- macro : 가 macro가 . Macro
 - , macro.
 - \$* <- 가 (Target)
 - \$@ <- (Target)
 - \$< <-
 - \$? <- (Target) list

macro

main.o : main.c io.h

gcc -c \$*.c

□ \$* 가 \$* main
.

test : \$(OBJS)

gcc -o \$@ \$*.c

□ \$@ . test .

.c.o :

gcc -c \$< (gcc -c \$*.c)

□ \$<
. .o .c
가 main.o main.c main.c \$< .