

Linux From Scratch - Version 12.1-systemd		
Important Preliminary Material		
	/	

ii.

5 6 , 가  
 . chroot 3  
 LFS  
 가

LFS

가

LFS

( )

LFS

가

가

- **Build**

“ ”

- **Host**

/ “ ”

- **Target**

가

("Canadian Cross" )

A

ccA

(B)

(B)

가

(C)

C

Stage	Build	Host	Target	Action	
1	A	A	B	<b>A</b>	ccA
2	A	B	C	<b>A</b>	cc1
3	B	C	C	<b>B</b>	cc2

B cc2 C  
가 C . C 가  
가 . .

Stage	Build	Host	Target	Action	
4	C	C	C	<b>C</b>	ccC

cc1 cc2  
ccA ccC

## LFS

Autoconf-base  
autoconf  
OS “ ” “ ”  
“ ” “ ”  
cpu-vendor-kernel-os  
가  
가  
가

( : x86\_64-unknown-freebsd)

CPU(ARM64)  
Ubuntu  
Android  
(Linux)  
ARM64

OS  
linux-android  
Ubuntu  
Android  
“ ”  
aarch64-unknown-  
aarch64-unknown-linux-gnu

“ ”  
binutils  
32  
x86\_64-pc-linux-gnu  
gcc -dumpmachine  
config.guess  
./config.guess  
i686-pc-linux-gnu  
64  
(binutils



```
32     Intel          ld-linux.so.2  , 64      ld-
linux-x86-64.so.2      .      가
                                :
readelf -l <           > | grep interpreter.      glibc
shlib-versions          .
```

LFS 가 LFS\_TGT  
"vendor" "lfs" -with-sysroot 6

Stage	Build	Host	Target	Action		
1	pc	pc	lfs	<b>pc</b>	cc- <b>pc</b>	cc1
2	pc	lfs	lfs	<b>pc</b>	cc-1	cc-lfs
3	lfs	lfs	lfs	<b>lfs</b>	cc-lfs	cc-lfs

```
“pc “ . lfs “  
chroot
```

glibc LFS GNU C 가 . C 가 ( “musl” cc1

glibc . . . . . C++ libgcc , , (libstdc++) 가 glibc  
cc1 . . . . . , glibc (glibc  
) libstdc++ . . . . . libgcc

cc1 libgcc libstdc++ , 2  
C/C++ cc-lfs 가 가 cc1 . 2

- cc-lfs PC( ) . PC lfs libc
    - ( : musl) ( : glibc-2.13) .
  - cc-lfs가 PC cc-lfs . PC PC

gcc 2 libstdc++ libstdc++가 cc1 libgcc libstdc++ libgcc .

가 \$LFS/tools  
Binutils가 gcc glibc **configure**  
. gcc glibc  
가  
가  
Binutils \$LFS/tools/bin \$LFS/tools/\$LFS\_TGT/bin  
- **ld -verbose** , \$LFS\_TGT-ld  
- **verbose | grep SEARCH** ( lfs  
\$LFS\_TGT-ld ld  
).  
gcc . **configure**  
  
checking what assembler to use... /mnt/lfs/tools/i686-lfs-linux-gnu/bin/as  
checking what linker to use... /mnt/lfs/tools/i686-lfs-linux-gnu/bin/ld  
  
PATH . gcc configure 가  
가 gcc . **gcc** . \$LFS\_TGT-gcc -  
print-prog-name=ld . ( \$LFS\_TGT- .  
-v . **gcc** . \$LFS\_TGT- .  
\$LFS\_TGT-gcc -v example.c( \$LFS\_TGT- .  
gcc ,  
  
Linux API . C (glibc)가 Linux  
  
glibc . glibc . 가  
configure . -host . ( :  
\$LFS\_TGT-gcc ) . 가 config.make  
gcc . **configure** . CC="\$LFS\_TGT-  
gcc"(\$LFS\_TGT가 . -nostdinc -  
isystem  
glibc

C++ 가 , 6

6 DESTDIR LFS  
binutils-pass2가 , 가  
CC\_FOR\_TARGET cc  
gcc가  
7 chroot 가 가

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