

ii.

5 6

chroot

LFS

가

cross-compilation()

LFS

가



LFS

()
LFS

가

가

- **Build**

- **Host**

- **Target**

가

A (“ ccA ”) (B) (B) 가
(C) C

Stage	Build	Host	Target	Action
1	A	A	B	A ccA cc1
2	A	B	C	A cc1 cc2
3	B	C	C	B cc2 ccC

B cc2 C . B

가 C C 가
 C
 ccC
 가 :

Stage	Build	Host	Target	Action
4	C	C	C	C ccC ccC

cc1 cc2
 ccA ccC

LFS

Autoconf-base autoconf-base cpu-vendor-kernel-os 가

OS “ ” 가 가
 (: x86_64-unknown-freebsd)

(Linux) Android CPU(ARM64)
 ARM64 Ubuntu

가 OS Android aarch64-unknown-
 linux-android Ubuntu aarch64-unknown-linux-gnu

“ ”

config.guess
 . binutils ./config.guess i686-pc-linux-gnu . 64
 32 x86_64-pc-linux-gnu가

gcc -dumpmachine

ld) . glibc (binutils

32 Intel ld-linux.so.2 , 64 ld-
 linux-x86-64.so.2 가 :

readelf -I < glibc > | grep interpreter.
 shlib-versions

LFS 가 LFS_TGT
 "vendor" "lfs" .
 -with-sysroot . 6

가

Stage	Build	Host	Target	Action	
1	pc	pc	lfs	pc	cc-pc cc1
2	pc	lfs	lfs	pc	cc-1 cc-lfs
3	lfs	lfs	lfs	lfs	cc-lfs cc-lfs

"pc"

. lfs "

chroot

. C 가
 . GNU C 가 ("musl"
). glibc LFS , cc1
 . libgcc , 가
 . C++ (libstdc++) glibc
 . " " .
 cc1 libgcc , glibc (glibc
) libstdc++ libgcc
 . libgcc , 2
 C/C++ cc1 libstdc++ . 2
 cc-lfs 가 가 .
 • cc-lfs PC() . PC lfs libc
 (: musl) (: glibc-2.13)
 • cc-lfs가 PC cc-lfs PC PC

gcc 2 cc1 libgcc libstdc++ ,
 libstdc++ libgcc
 libstdc++가 .
 8 (" 3 ") LFS 가
 LFS .
 LFS LFS . 6
 7 8 6 가

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
```

gcc configure 가
PATH gcc
가 gcc가 \$LFS_TGT-gcc -
print-prog-name=ld (\$LFS_TGT-

-v gcc
\$LFS_TGT-gcc -v example.c(\$LFS_TGT-)
gcc ,

Linux API C (glibc)가 Linux

glibc . glibc 가
configure -host (:
\$LFS_TGT-gcc) 가

. configure config.make

gcc"(\$LFS_TGT가) CC="\$LFS_TGT-
isystem -nostdinc -

glibc

C++ 가 , 6

DESTDIR LFS

6 LFS 가 DESTDIR
binutils-pass2가 gcc 가

gcc 가

CC_FOR_TARGET cc
CC_FOR_TARGET=\$LFS_TGT-gcc가

7 가 가

. 8
* Translated with

www.DeepL.com/Translator (free version) *

From:

<https://www.gamu.kr/dokuwiki/> -

Permanent link:

https://www.gamu.kr/dokuwiki/linuxfromscratch/12.1/032-toolchain_technical_notes?rev=1714803963

Last update: **2024/05/04 06:26**

