

Linux From Scratch - Version 12.4

5 6

.chroot
LFS

가


가

LFS

가

LFS ()

LFS

 GCC pass 2

GCC Pass 2

GCC Pass 2

“ ”

가

가

• **Build**

• **Host**

• **Target**

가

(“Canadian Cross”)

가

, A

ccA

(B)

(B)

, (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

가 C B cc2 C 가 . B
 가 C 가
 가 ccC

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

cc1 cc2
 ccA ccC

LFS

```

autoconf-base
Autoconf-base
autoconf
OS
CPU(ARM64)
Ubuntu
Linux)
ARM64
Android
aarch64-unknown-
aarch64-unknown-linux-gnu
config.guess
./config.guess
i686-pc-linux-gnu
gcc -dumpmachine
x86_64-pc-linux-gnu
ld
glibc
(binutils)
    
```



. 32 Intel
ld-linux-x86-64.so.2
interpreter
[Glibc wiki](#)

ld-linux.so.2 , 64
가
readelf -l < > | grep

가

- “ ”
“ ” “ ”
C C
가 “ ”
Autoconf -host “host”
“ ” < >
>-gcc, readelf < >-readelf

- -help
가 “ ”
가 X86 CPU ARM64 가
Autoconf “ ”
“ ” “ ”
“ ” configure 가 “
“ ” -build

LFS LFS_TGT
'vendor' 'lfs' , LFS_TGT -host ' ' LFS_TGT
LFS “
” : “ ” ,LFS 가 CPU
, “ ” ()
가 . LFS
configure libc가
가 libc (Musl libc
) ,
“ ” 가 “ ”
“ ” , config.guess

-with-sysroot “ ”

Autoconf “ ”
libtool 가 “ ”
libtool (.la)
Binutils 가 libtool

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

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

```

"pc"
chroot

C
가
가 ( "musl"
). glibc GNU C 가 , cc1
LFS

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

, cc1 libgcc libstdc++ , cc1
2 C/C++ ) , cc-lfs pc(
가 Libstdc++ gcc 2 ( ) ,
libgcc libstdc++가

8 ( " 3 " ) LFS 가
LFS LFS LFS

7 " " 가 6

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
가
prog-name=ld
gcc configure 가
gcc
.LFS_TGT-gcc -print-
.LFS_TGT-
)
-v
gcc
.LFS_TGT-gcc -v example.c(
.LFS_TGT-
)
Linux API
C
(glibc)가 Linux
glibc
-host=$LFS_TGT
-build=$(..
/scripts/config.guess)
"
"
DESTDIR
LFS
C++
가
, 6
glibc
6
LFS
가
DESTDIR
binutils-pass2가
gcc-pass2가
7
chroot
가
. 8
```

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