

1.**libz**(external\zlib)

./configure

make

2.**libsparse**(system\core\libsparse)

gcc -c -D__LARGE64_FILES -I include -I ../../external/zlib/ backed_block.c

output_file.c sparse.c sparse_crc32.c sparse_err.c sparse_read.c

ar rcs libsparse_host.a *.o

gcc simg2img.c sparse_crc32.c -I include/ libsparse_host.a

../../external/zlib/src/libz.a -o simg2img.exe

gcc img2simg.c -I include/ libsparse_host.a ../../external/zlib/src/libz.a -o
img2simg.exe

output_file.c

#if defined(__CYGWIN__)

#define off64_t _off64_t

#define lseek64 lseek

#define ftruncate64 ftruncate

#define mmap64 mmap

#endif

3.**libselineux**(external\libselineux)

gcc -c -DHOST -I ../../system/core/include/ -I include/ src/callbacks.c

src/check_context.c src/freecon.c src/init.c src/label.c src/label_file.c

src/label_android_property.c

ar rcs libselineux.a *.o

4.**libext4_utils_host**(system\extras\ext4_utils)

gcc -c -D__LARGE64_FILES -I ../../core/include/ -I ../../core/libsparse/include/ -I

../../external/libselineux/include/ make_ext4fs.c ext4fixup.c ext4_utils.c allocate.c

contents.c extent.c indirect.c uuid.c sha1.c wipe.c crc16.c

```
ar rcs libext4_utils_host.a *.o
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```
gcc -DHOST -D__LARGE64_FILES -I ../../core/include/ -I ../../core/libsparse/include/ -  
I ../../external/libselinux/include/ make_ext4fs_main.c libext4_utils_host.a  
../../core/libsparse/libsparse_host.a ../../external/zlib/src/libz.a  
../../external/libselinux/libselinux.a -o make_ext4fs.exe
```