



Bootloader Compiling User Guide

Calterah Semiconductor

Date	Version	Description	Author
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INTRODUCTION

The purpose of this document is to help customer understand the basic compiling procedure of bootloader. This document applies to Alps and Rhine series only.

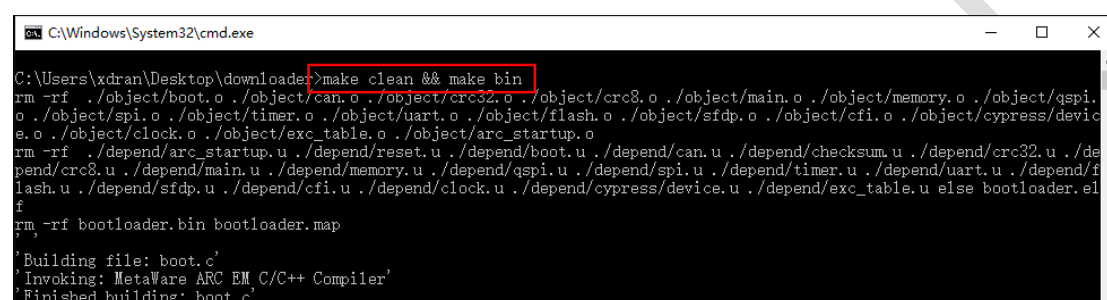
By default, the binary bootloader file (Bootloader.bin) is ready in root directory of Calterah Flash Tool. In some cases, you may need to modify bootloader. Please recompile it according to the instructions below and copy it to the root directory Calterah Radar Flash Tool. For more information, please contact Calterah FAE for help.

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COMPILING

- (1) Open the command line in bootloader source code folder /downloader/
- (2) Run the following command to compile firmware

make clean && make bin



```

C:\Windows\System32\cmd.exe
C:\Users\xdran\Desktop\downloader>make clean && make bin
rm -rf ./object/boot.o ./object/can.o ./object/crc32.o ./object/crc8.o ./object/main.o ./object/memory.o ./object/qspi.o ./object/spi.o ./object/timer.o ./object/uart.o ./object/flash.o ./object/sfdp.o ./object/cfi.o ./object/cypress/device.o ./object/clock.o ./object/exc_table.o ./object/arc_startup.o
rm -rf ./depend/arc_startup.u ./depend/reset.u ./depend/boot.u ./depend/can.u ./depend/checksum.u ./depend/crc32.u ./depend/crc8.u ./depend/main.u ./depend/memory.u ./depend/qspi.u ./depend/spi.u ./depend/timer.u ./depend/uart.u ./depend/flash.u ./depend/sfdp.u ./depend/cfi.u ./depend/clock.u ./depend/cypress/device.u ./depend/exc_table.u else bootloader.elf
rm -rf bootloader.bin bootloader.map
Building file: boot.c
Invoking: MetaWare ARC EM C/C++ Compiler
Finished building: boot.c
  
```

- (3) **Bootloader.bin** is generated in the folder

cyppress	2020/6/8 13:22	文件夹	
documentation	2020/6/8 13:22	文件夹	
object	2020/6/8 13:22	文件夹	
.gitlab-ci.yml	2020/6/8 13:22	YML 文件	1 KB
addr.h	2020/6/8 13:22	H 文件	2 KB
apb_top.h	2020/6/8 13:22	H 文件	3 KB
arc.lcf	2020/6/8 13:22	LCF 文件	2 KB
arc_startup.s	2020/6/8 13:22	S 文件	3 KB
boot.c	2020/6/8 13:22	C 文件	11 KB
booth	2020/6/8 13:22	H 文件	4 KB
bootloader.bin	2020/6/8 13:22	BIN 文件	13 KB
bootloader.elf	2020/6/8 13:22	ELF 文件	122 KB
bootloader.map	2020/6/8 13:22	MAP 文件	29 KB
can.c	2020/6/8 13:22	C 文件	16 KB
can.h	2020/6/8 13:22	H 文件	3 KB
can_reg.h	2020/6/8 13:22	H 文件	15 KB
cfi.c	2020/6/8 13:22	C 文件	3 KB
cfi.h	2020/6/8 13:22	H 文件	2 KB
clock.c	2020/6/8 13:22	C 文件	3 KB
common.h	2020/6/8 13:22	H 文件	2 KB

- (4) Copy **bootloader.bin** to the installation directory of CalterahDownloader (the default path is C:\Calterah_downloader).