刷BIOS教程

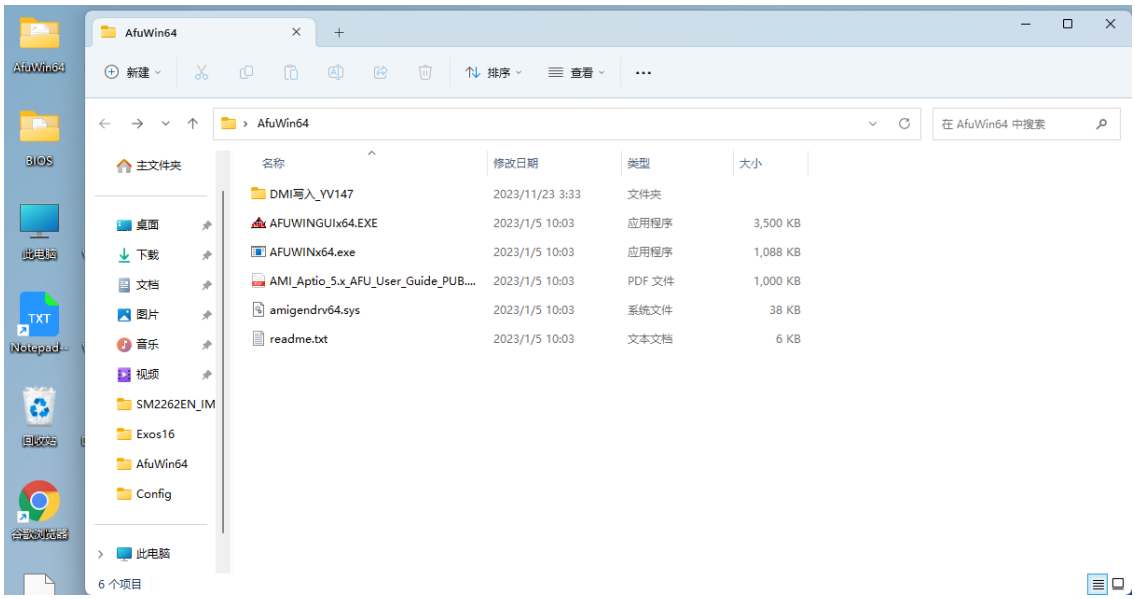
Windows

本教程基于 win11

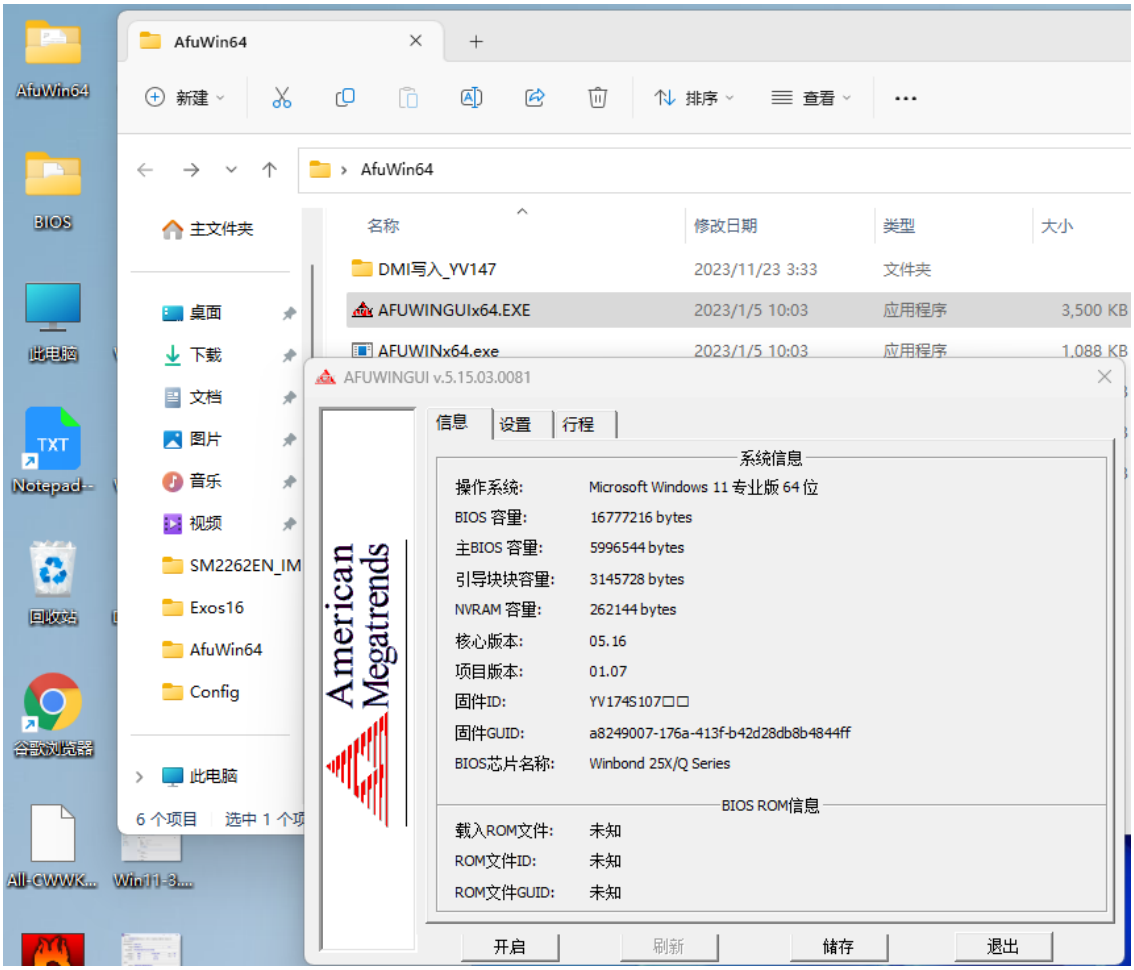
解压目录到桌面进行操作

流程：

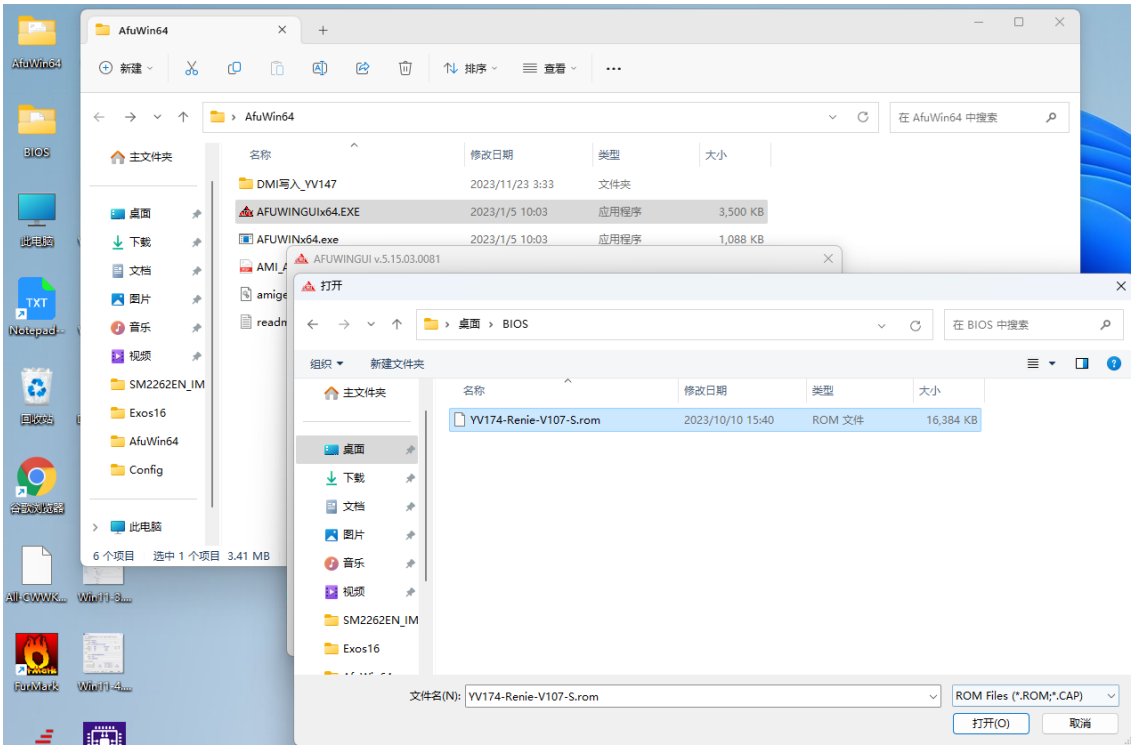
1. 解压 windows 文件夹下的 `AfuWin64.zip`



2. 打开 `AFUWINGUIx64.exe`

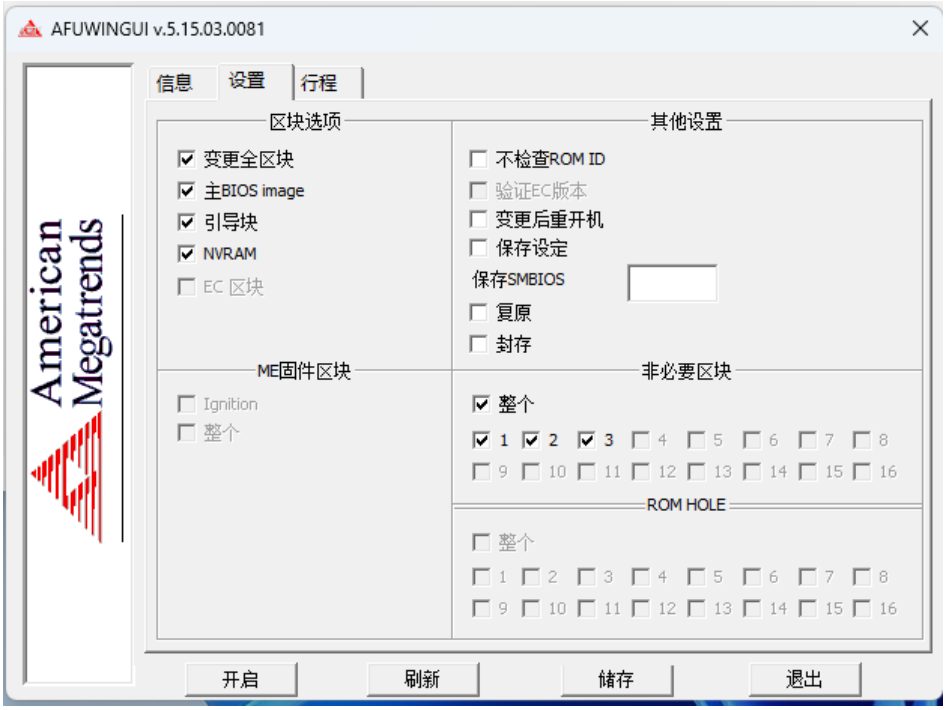


3. 点击左下角的 "开启" 按钮，选择相应的BIOS文件

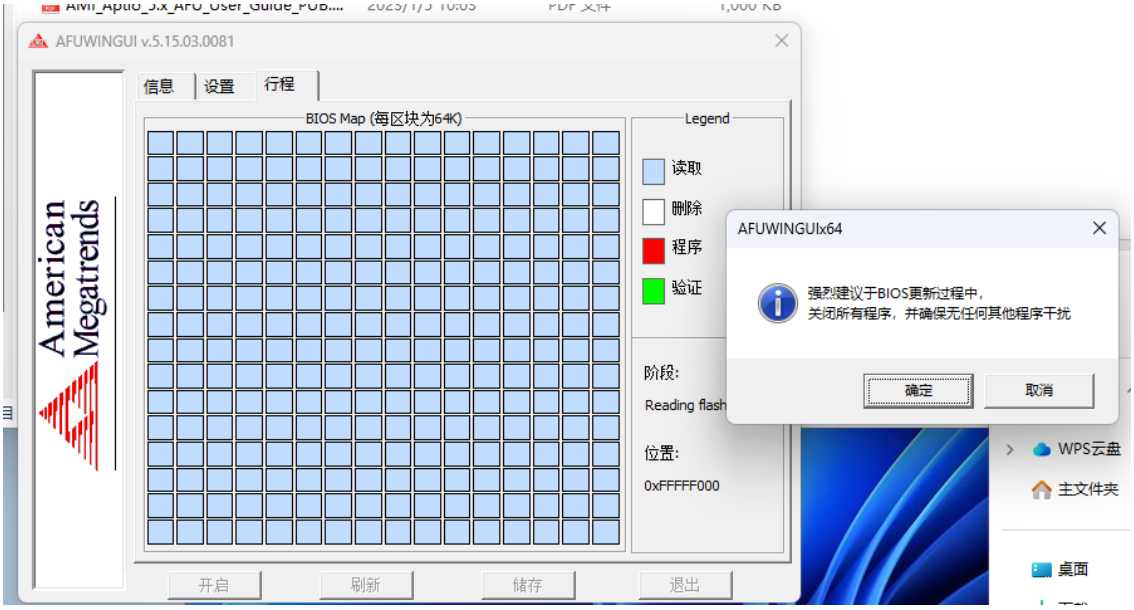


4. 选择BIOS文件后会跳到当前页面，如果没有，重复第三步，上方的设置。

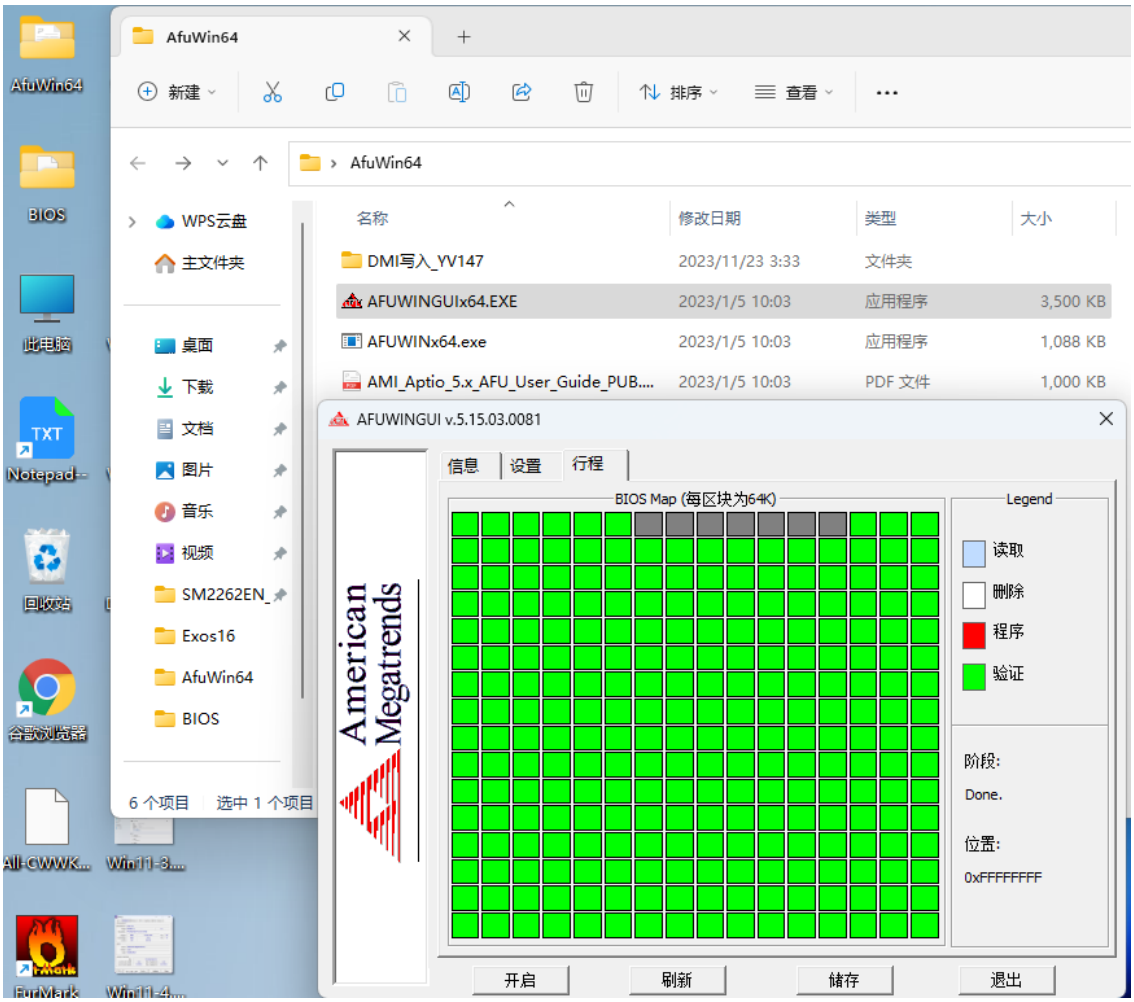
5. 左上角选取 "变更全区块"
    - 不选择可能导致出现BIOS刷写失败，导致机器无法开机。



6. 关闭系统的无关软件（浏览器、微信、qq等程序）
7. 点击左下角 "刷新按钮"，等待弹出提示，选择 "确定"。
    - 执行过程中请不要断电、重启电脑等，否则机器可能无法使用
    - 执行过程中，鼠标与键盘将暂时无法使用。



8. 点击确认后等待软件处理，当区块变为类似下图（基本全绿时，并且鼠标键盘可以移动后，重启电脑即可）
    - 执行过程中请不要断电、重启电脑等，否则机器可能无法使用
    - 执行过程中，鼠标与键盘将暂时无法使用。



9. 重启系统后，完成刷机

Linux

本教程基于 Ubuntu 22.04.1，内核 5.15.0-43-generic

以下操作请在root下执行，并且当前工作目录为/home/pear

```
root@pear:/home/pear# pwd
/home/pear
```

流程：

1. 将 linux 文件夹下的所有文件与BIOS文件夹下的BIOS程序，全部上传到Linux机器上。

   ```
   root@pear:/home/pear# ls -lh
   总用量 5.8M
   ...
   drwxrwxr-x 2 pear    pear    4.0K 11月 23 11:14 BIOS
   ...
   drwxrwxr-x 2 pear    pear    4.0K 11月 23 11:14 linux
   ...
   ```

2. 进入linux目录，并授权

   ```
   root@pear:/home/pear# cd linux
   root@pear:/home/pear/linux# chmod 755 ./*
   ```

3. 查看 BIOS 下想更新的BIOS文件，并记住值

   ```
   root@pear:/home/pear/linux# ls /home/pear/BIOS
   YV174-Renie-V107-S.rom
   ```

4. 编辑Flash.sh文件，并修改其 BIOS 值，将`YV174-Renie-V107-server(2).rom`改为`/home/pear/BIOS/YV174-Renie-V107-S.rom`（上一步获取到的想更新的BIOS文件）

   ```
   root@pear:/home/pear/linux# vim Flash.sh
   #!/bin/bash

   ./afulnx_64 'YV174-Renie-V107-server(2).rom' /p /b /n /x /k
   ```

   - 不会vim可以通过sed实现

     ```
     sed -i 's/YV174-Renie-V107-server(2).rom/\/home\/pear\/BIOS\/YV174-Renie-V107-S.rom/g' Flash.sh
     ```

5. 执行 ./Flash.sh 文件并等待（中途可能会有部分报错，忽视即可）

   ```
   root@pear:/home/pear/linux# ./Flash.sh
   warning: the compiler differs from the one used to build the kernel
     The kernel was built by: gcc (Ubuntu 11.2.0-19ubuntu1) 11.2.0
     You are using:           gcc (Ubuntu 11.4.0-1ubuntu1~22.04) 11.4.0
   /home/pear/linux/DriverSource/amifldrv.c:128:9: error: ‘struct
   file_operations’ has no member named ‘ioctl’
     128 |         ioctl                   : amifldrv_ioctl,
         |         ^~~~~
   /home/pear/linux/DriverSource/amifldrv.c:128:35: error: positional
   initialization of field in ‘struct’ declared with ‘designated_init’
   attribute [-Werror=designated-init]
   ```

```
  128 |         ioctl                   : amifldrv_ioctl,
      |                                   ^~~~~~~~~~~~~
/home/pear/linux/DriverSource/amifldrv.c:128:35: note: (near initialization
for ‘amifldrv_fops’)
/home/pear/linux/DriverSource/amifldrv.c:128:35: error: initialization of
‘int (*)(struct file *, loff_t,  loff_t,  int)’ {aka ‘int (*)(struct file *,
long long int,  long long int,  int)’} from incompatible pointer type ‘int
(*)(struct inode *, struct file *, unsigned int,  long unsigned int)’ [-
Werror=incompatible-pointer-types]
/home/pear/linux/DriverSource/amifldrv.c:128:35: note: (near initialization
for ‘amifldrv_fops.fsync’)
cc1: some warnings being treated as errors
make[2]: ***
[scripts/Makefile.build:285：/home/pear/linux/DriverSource/amifldrv.o] 错误 1
make[1]: *** [Makefile:1875：/home/pear/linux/DriverSource] 错误 2
mv: 无法获取'amifldrv_mod.ko' 的文件状态(stat): 没有那个文件或目录
make: *** [Makefile:20：default] 错误 1
+------------------------------------------------------------------------------
+
|              AMI Firmware Update Utility v5.12.02.2028
|
|      Copyright (c) 1985-2019, American Megatrends International LLC.
|
|         All rights reserved. Subject to AMI licensing agreement.
|
+------------------------------------------------------------------------------
+
 Reading flash ............... done
 - FFS checksums ......... ok
 - Check RomLayout ........ ok.
 Erasing Boot Block .......... 0x00EBD000 (56%)
```

6. 等待上述执行完毕

```
+------------------------------------------------------------------------------
+
|              AMI Firmware Update Utility v5.12.02.2028
|
|      Copyright (c) 1985-2019, American Megatrends International LLC.
|
|         All rights reserved. Subject to AMI licensing agreement.
|
+------------------------------------------------------------------------------
+
 Reading flash ............... done
 - FFS checksums ......... ok
 - Check RomLayout ........ ok.
 Erasing Boot Block .......... done
 Updating Boot Block ......... done
 Verifying Boot Block ........ done
 Erasing Main Block .......... done
 Updating Main Block ......... done
 Verifying Main Block ........ done
 Erasing NVRAM Block ......... done
 Updating NVRAM Block ........ done
 Verifying NVRAM Block ....... done
 Erasing NCB Block ........... done
```

```
 Updating NCB Block .......... done
 Verifying NCB Block ......... done

 Process completed.
root@pear:/home/pear/linux#
```

7. 重启系统后，完成刷机。