

Arm DS安装激活手册

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安装要求

操作系统			硬件要求
Windows 10	红帽	Ubuntu	双核x86 2GHz处理器 (或等效处理器)
	企业版 Linux 7工作站	桌面版20.04 LTS	4GB RAM及以上
	企业版 Linux 8工作站		4GB以上可用 硬盘空间

软件下载

ARM DS 软件下载

ARM DS 软件下载

<https://developer.arm.com/tools-and-software/embedded/arm-development-studio/downloads>

Arm compiler 软件下载

<https://developer.arm.com/tools-and-software/embedded/arm-compiler/downloads/version-6>

FlexNet 软件下载

<https://developer.arm.com/downloads/-/download-flexnet-publisher>

单机版

一、 下载 Arm DS license文件

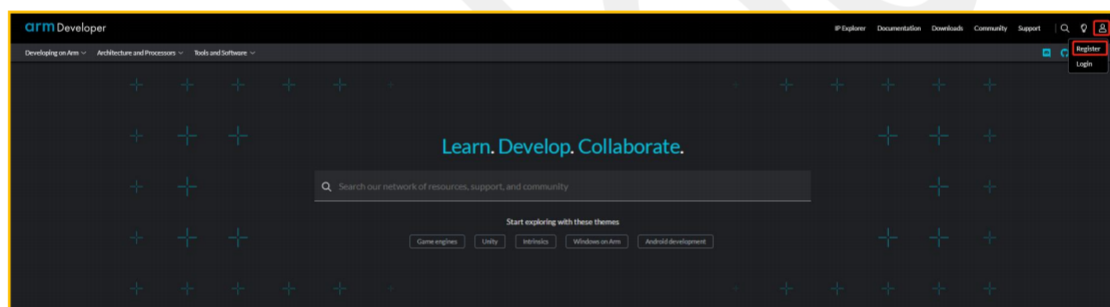
1.1 注册 ARM 帐户

如果您已经有 ARM 帐户了，请跳过”注册账号”这一节，直接看第二节”登录 ARM

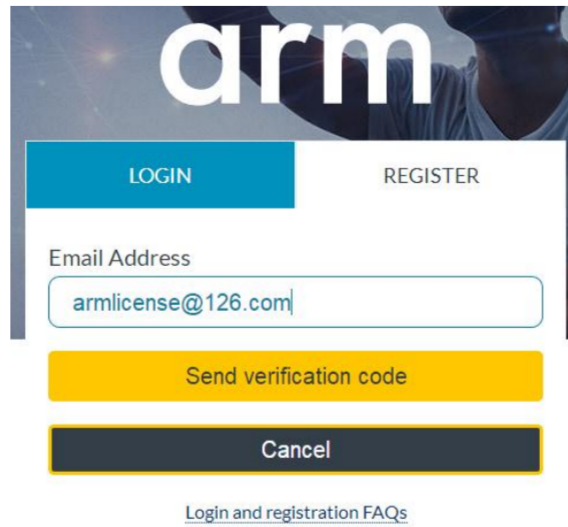
帐户，下载 License 文件”

如果打开 ARM 官网太慢，建议用笔记本电脑连接手机热点来访问 ARM 官网

- 1) 打开浏览器在地址栏中输入<https://developer.arm.com/> 进入 ARM 官网，点击右上角人物图标, 选择 Register 进入注册页面

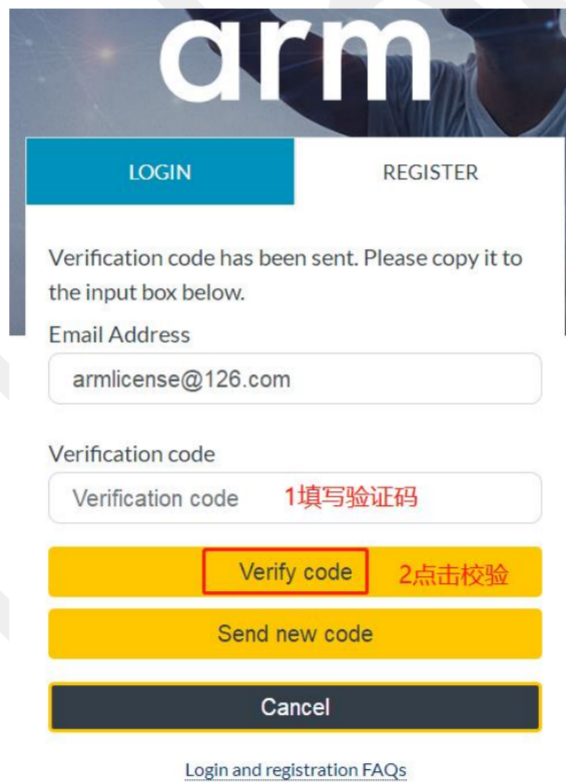


- 2) 在 Email address 栏处输入需要注册的邮箱地址，
然后点击 Send verification code 按钮，向填写的邮箱发送一份带有验证码的邮件。



The screenshot shows the ARM login/register interface. At the top, the 'arm' logo is displayed. Below it, there are two tabs: 'LOGIN' (active) and 'REGISTER'. Under the 'LOGIN' tab, there is a text input field for 'Email Address' containing 'armlicense@126.com'. Below the input field, there are two buttons: 'Send verification code' (yellow) and 'Cancel' (dark grey). At the bottom, there is a link for 'Login and registration FAQs'.

- 3) 收取邮件并将验证码填写到 Verification code 栏处，然后点击 Verify code 按钮。



The screenshot shows the ARM login/register interface after a verification code has been sent. The 'LOGIN' tab is active. A message states: 'Verification code has been sent. Please copy it to the input box below.' Below this, there is a text input field for 'Email Address' containing 'armlicense@126.com'. Below the email field, there is a text input field for 'Verification code' with a red prompt '1填写验证码' (1. Fill in the verification code). Below the verification code field, there are three buttons: 'Verify code' (yellow, highlighted with a red box and labeled '2点击校验' (2. Click to verify)), 'Send new code' (yellow), and 'Cancel' (dark grey). At the bottom, there is a link for 'Login and registration FAQs'.

注意：如果您没有收到验证码可以点击 Send new code 按钮重新向刚才填写的邮箱中发送验证码;如果还是没有收到邮件，则有可以是邮箱过滤了一些陌生邮件，请到垃圾邮件中查看。但垃圾邮件中还没找到时，则可能是邮箱被设置了拦截功能请联系 IT 帮忙处理。

4) 填写相关信息，然后点击 Create 按钮创建帐户

注意：建议在填写下面的相关个人信息的时候填写真实有效的信息，避免出现审核无法通过或审核时间太久的问题。

LOGIN

REGISTER

Please enter your details

Email Address

First name

Last name

Job Role

Target Markets

Country

Street Address

1st changanjie

City

BeiJing

Company (Optional)

emdoor

New Password

.....

Confirm New Password

.....

☐

I would like to receive marketing communications from Arm

Arm will process your information in accordance with [Arm's privacy policy](#).

Create

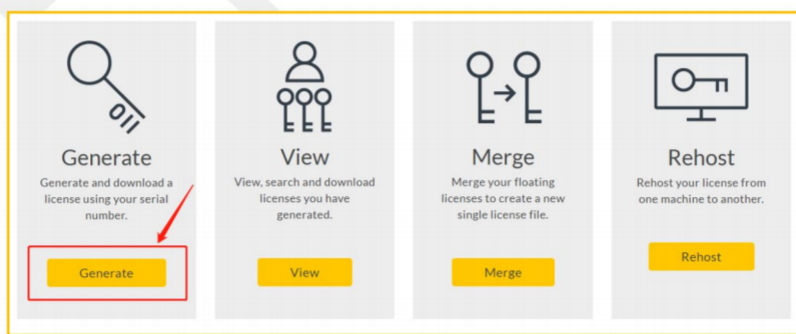
Cancel

[Login and registration FAQs](#)

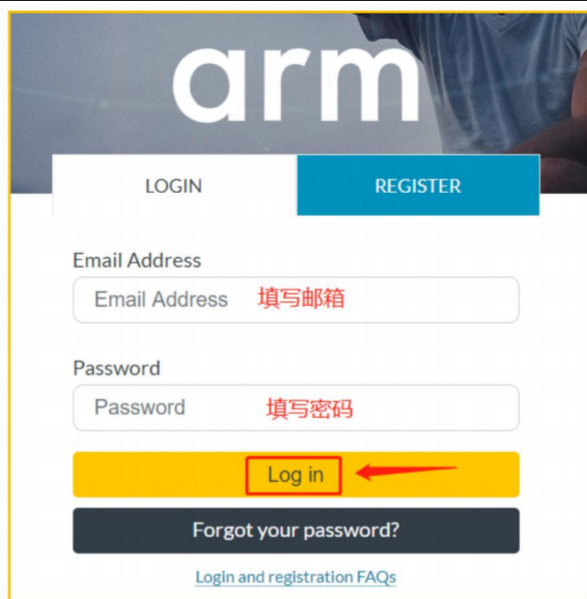
1.2 登录 ARM 帐户，下载 License 文件

1. 打开ARM授权证书管理页面

<https://developer.arm.com/support/licensing>

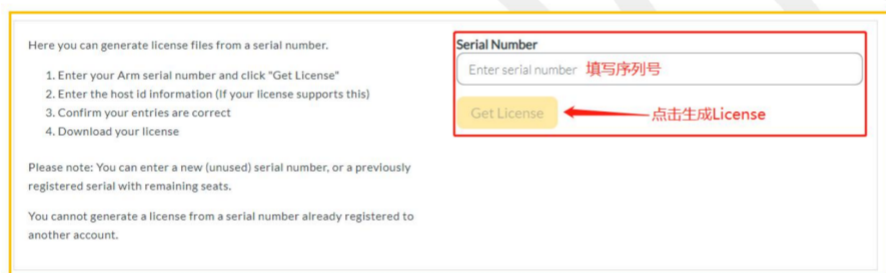


2. 登陆ARM账号



The image shows the ARM login and registration interface. At the top, there is a large 'arm' logo. Below it, there are two tabs: 'LOGIN' and 'REGISTER'. The 'REGISTER' tab is highlighted in blue. Under the 'REGISTER' tab, there are two input fields: 'Email Address' and 'Password'. The 'Email Address' field has a placeholder text 'Email Address' and a red prompt '填写邮箱'. The 'Password' field has a placeholder text 'Password' and a red prompt '填写密码'. Below these fields, there is a yellow 'Log in' button with a red arrow pointing to it. Below the 'Log in' button, there is a dark gray button labeled 'Forgot your password?'. At the bottom, there is a link for 'Login and registration FAQs'.

3. 输入序列号，然后点击 **Get License** 按钮生成



The image shows the ARM 'Get License' interface. At the top, there is a heading 'Here you can generate license files from a serial number.' Below this, there are four numbered steps: 1. Enter your Arm serial number and click "Get License", 2. Enter the host Id information (If your license supports this), 3. Confirm your entries are correct, 4. Download your license. Below the steps, there is a 'Please note' section: 'Please note: You can enter a new (unused) serial number, or a previously registered serial with remaining seats. You cannot generate a license from a serial number already registered to another account.' On the right side, there is a 'Serial Number' input field with a placeholder text 'Enter serial number' and a red prompt '填写序列号'. Below the input field, there is a yellow 'Get License' button with a red arrow pointing to it and a red prompt '点击生成License'.

4. 在“Host Id”处填入要安装许可证的主机的MAC地址（物理地址），并点击“Generate”如图3-4。例如，物理地址为 00-50-56-C0-00-08，在输入的时候填写005056C00008即可，不需要写中间符号，只填写12位数字或字母。

5. 点击 Download License 按钮下载 license 文件，如果没有出现下载窗口请设置浏览器允许弹窗

6. 在打开的页面中点击 下载按钮，下载 License 文件

二、软件安装

2.1 Windows 版安装

1) ARM DS 软件

双击安装包，根据向导下一步即可(无需另行安装插件)。

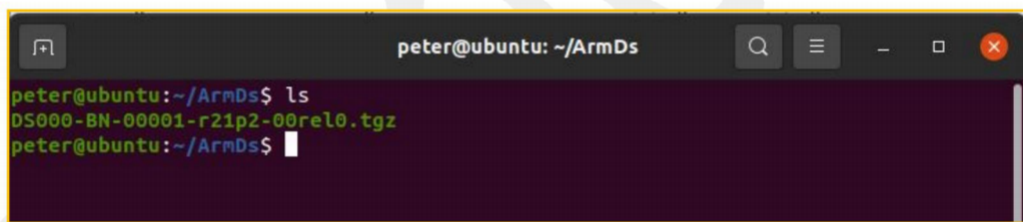
2) 单独编译器安装

解压 ARM Compiler 文件到自定义目录，双击运行 `setup.exe` 进行 ARM Compiler 程序的安装。

2.2 Linux 版安装

➤ ARM DS 软件

1) 把 ARM DS 的安装包拷贝到有读写权限的目录；



```
peter@ubuntu: ~/ArmDs
peter@ubuntu:~/ArmDs$ ls
DS000-BN-00001-r21p2-00rel0.tgz
peter@ubuntu:~/ArmDs$
```

2) 解压缩安装包

```
tar zxvf DS000-BN-00001-r21p2-00rel0.tgz
```

```
peter@ubuntu: ~/ArmDs
peter@ubuntu:~/ArmDs$ ls
DS000-BN-00001-r21p2-00rel0.tgz
peter@ubuntu:~/ArmDs$ tar xzvf DS000-BN-00001-r21p2-00rel0.tgz
DS000-BN-00001-r21p2-00rel0/
DS000-BN-00001-r21p2-00rel0/license_terms/
DS000-BN-00001-r21p2-00rel0/license_terms/third_party_licenses/
DS000-BN-00001-r21p2-00rel0/license_terms/third_party_licenses/models/
DS000-BN-00001-r21p2-00rel0/license_terms/third_party_licenses/models/third_party_licenses.txt
DS000-BN-00001-r21p2-00rel0/license_terms/third_party_licenses/dstream-st/
DS000-BN-00001-r21p2-00rel0/license_terms/third_party_licenses/dstream-st/third_party_licenses.txt
DS000-BN-00001-r21p2-00rel0/license_terms/third_party_licenses/third_party_licenses.txt
DS000-BN-00001-r21p2-00rel0/license_terms/third_party_licenses/streamline/
DS000-BN-00001-r21p2-00rel0/license_terms/third_party_licenses/streamline/third_party_licenses.txt
DS000-BN-00001-r21p2-00rel0/license_terms/third_party_licenses/arm_compiler_for_embedded_6/
DS000-BN-00001-r21p2-00rel0/license_terms/third_party_licenses/arm_compiler_for_embedded_6/third_party_licenses.txt
DS000-BN-00001-r21p2-00rel0/license_terms/third_party_licenses/graphics_analyzer/
DS000-BN-00001-r21p2-00rel0/license_terms/third_party_licenses/graphics_analyzer/third_party_licenses.txt
DS000-BN-00001-r21p2-00rel0/license_terms/third_party_licenses/examples/
DS000-BN-00001-r21p2-00rel0/license_terms/third_party_licenses/examples/third_party_licenses.txt
DS000-BN-00001-r21p2-00rel0/license_terms/third_party_licenses/debugger/
DS000-BN-00001-r21p2-00rel0/license_terms/third_party_licenses/debugger/third_party_licenses.txt
DS000-BN-00001-r21p2-00rel0/license_terms/redistributables.txt
DS000-BN-00001-r21p2-00rel0/license_terms/license_agreement.txt
DS000-BN-00001-r21p2-00rel0/license_terms/supplementary_terms.txt
DS000-BN-00001-r21p2-00rel0/readme.html
DS000-BN-00001-r21p2-00rel0/armds-2021.2.sh
peter@ubuntu:~/ArmDs$
```

3) 执行安装，sudo ./armds-2021.2.sh

```
peter@ubuntu: ~/ArmDs/DS000-BN-00001-r21p2-00rel0
peter@ubuntu:~/ArmDs/DS000-BN-00001-r21p2-00rel0$ ls
armds-2021.2.sh  license_terms  readme.html
peter@ubuntu:~/ArmDs/DS000-BN-00001-r21p2-00rel0$ sudo ./armds-2021.2.sh
```

```
END USER LICENCE AGREEMENT FOR THE ARM(r) DS-5 DEVELOPMENT STUDIO ("DS-5")

THIS END USER LICENCE AGREEMENT ("LICENCE") IS A LEGAL AGREEMENT BETWEEN YOU (EITHER A SINGLE INDIVIDUAL, OR SINGLE LEGAL ENTITY) AND ARM LIMITED ("ARM") FOR THE USE OF THE SOFTWARE ACCOMPANYING THIS LICENCE. ARM IS ONLY WILLING TO LICENSE THE SOFTWARE TO YOU ON CONDITION THAT YOU ACCEPT ALL OF THE TERMS IN THIS LICENCE. BY CLICKING "I AGREE" OR BY INSTALLING OR OTHERWISE USING OR COPYING THE SOFTWARE YOU INDICATE THAT YOU AGREE TO BE BOUND BY ALL OF THE TERMS OF THIS LICENCE. IF YOU DO NOT AGREE TO THE TERMS OF THIS LICENCE, ARM IS UNWILLING TO LICENSE THE SOFTWARE TO YOU AND YOU MAY NOT INSTALL, USE OR COPY THE SOFTWARE, AND YOU SHOULD PROMPTLY RETURN THE SOFTWARE TO YOUR SUPPLIER AND ASK FOR A REFUND OF ANY LICENCE FEE PAID (IF ANY).

"Clang" means a compiler front end developed by http://clang.llvm.org.

"Licence Key" means an electronic licence key issued to you by ARM to enable the use of the Software.

"LLVM" means a code generation and optimization framework developed by http://llvm.org.

"Seat" means a written or electronic authorisation from ARM to run one copy of each of the licence managed components (as defined in the Software package) concurrently and only in the quantities stated in the sales order and delivery confirmation email, for the time period enabled by your Licence Key, and where applicable, only with the target devices specified in the sales order and/or licence file.

"Separate Files" means the separate files identified in Section 2 of the Schedule.

Please answer with one of: 'yes' or 'no/quit'
```


按“q”退出阅读 License 信息，输入“Yes”直接回车，开始安装 ARM DS。

```
Please answer with one of: 'yes' or 'no/quit'  
Do you agree to the above terms and conditions? yes
```

4) 确认安装平台信息，直接回车

```
Please answer with one of: 'yes/y' or 'no/n'  
Run installation platform requirement checks? [default: yes]
```

5) 选择安装 ARM DS 的路径：

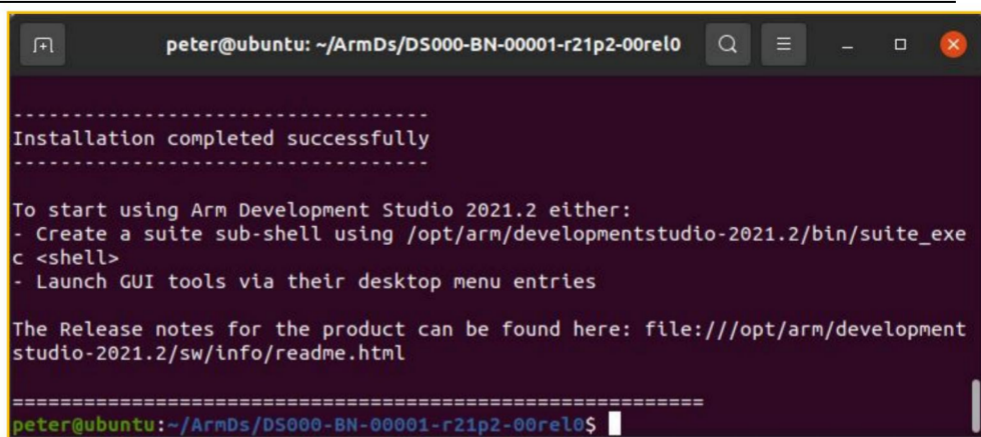
```
peter@ubuntu: ~/ArmDs/DS000-BN-00001-r21p2-00rel0  
*** WARNING ***  
One or more of the Arm Development Studio system dependencies are not installed,  
see below for a list of the missing libraries.  
  
libz.so.1 (32-bit)  
One of:  
libwebkit-1.0.so.2 (64-bit)  
libwebkitgtk-1.0.so.0 (64-bit)  
libwebkitgtk-3.0.so.0 (64-bit)  
  
We recommend you install the missing dependencies, otherwise the programs will not  
run correctly. For further information see the Arm Development Studio readme.  
Where would you like to install to? [default: /opt/arm/developmentstudio-2021.2]  
|
```

是否创建安装目录，默认直接回车开始安装

```
peter@ubuntu: ~/ArmDs/DS000-BN-00001-r21p2-00rel0  
libwebkit-1.0.so.2 (64-bit)  
libwebkitgtk-1.0.so.0 (64-bit)  
libwebkitgtk-3.0.so.0 (64-bit)  
  
We recommend you install the missing dependencies, otherwise the programs will not  
run correctly. For further information see the Arm Development Studio readme.  
Where would you like to install to? [default: /opt/arm/developmentstudio-2021.2]  
  
Please answer with one of: 'yes/y' or 'no/n'  
'/opt/arm/developmentstudio-2021.2' does not exist, create? [default: yes]  
--- Installing to '/opt/arm/developmentstudio-2021.2' (This may take a while...)  
|
```

根据不同电脑配置安装时间一般从几分钟
到半个小时不等；

6) 安装完成



```
peter@ubuntu: ~/ArmDs/DS000-BN-00001-r21p2-00rel0

-----
Installation completed successfully
-----

To start using Arm Development Studio 2021.2 either:
- Create a suite sub-shell using /opt/arm/developmentstudio-2021.2/bin/suite_exe
  c <shell>
- Launch GUI tools via their desktop menu entries

The Release notes for the product can be found here: file:///opt/arm/development
studio-2021.2/sw/info/readme.html

=====
peter@ubuntu:~/ArmDs/DS000-BN-00001-r21p2-00rel0$
```

➤ 单独编译器安装

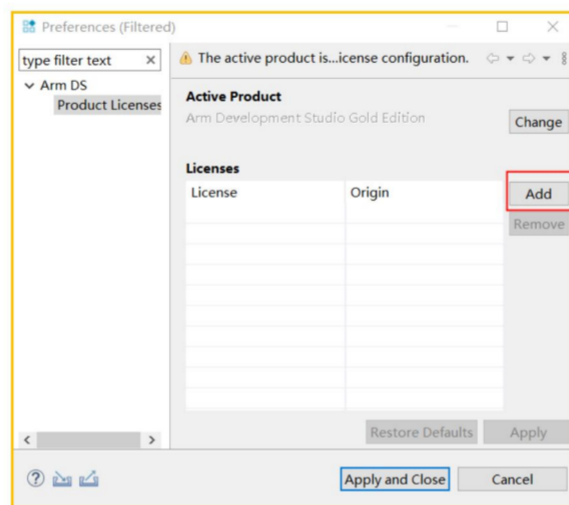
解压并切换到 Arm compiler 解压的目录中，然后在命令行终端中输入 ./setup.sh 就行

三、激活软件

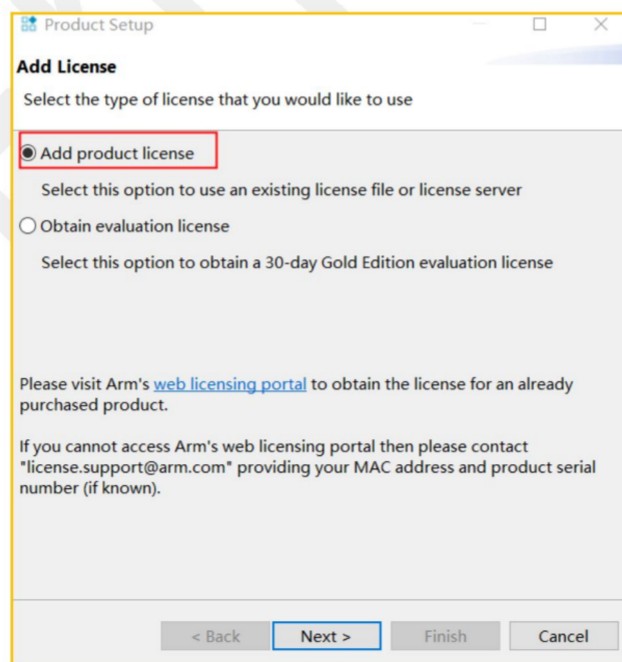
3.1 Windows 版

➤ 使用 ARMD S 软件

- 1) 打开Eclipse for ARM DS。
- 2) 选择“ Help> ARM License Manager”，再点击“Add”。

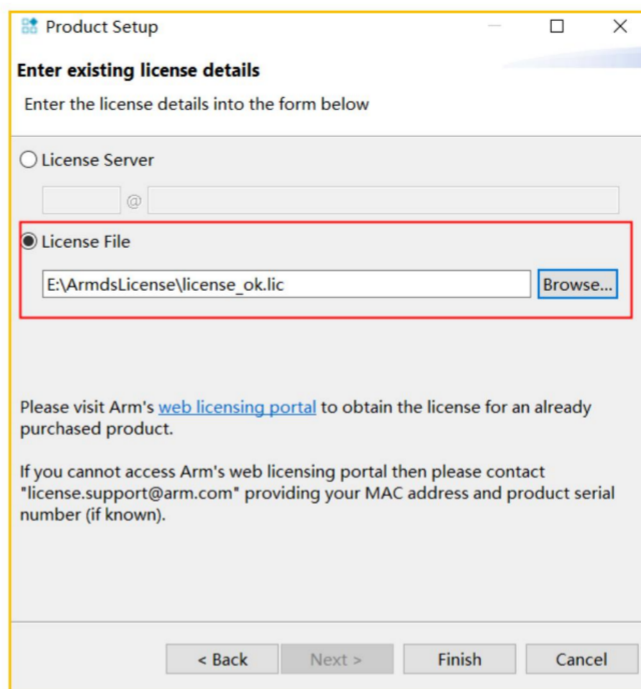


- 3) 选择第一个选项，再点击“Next”。



Emdoor

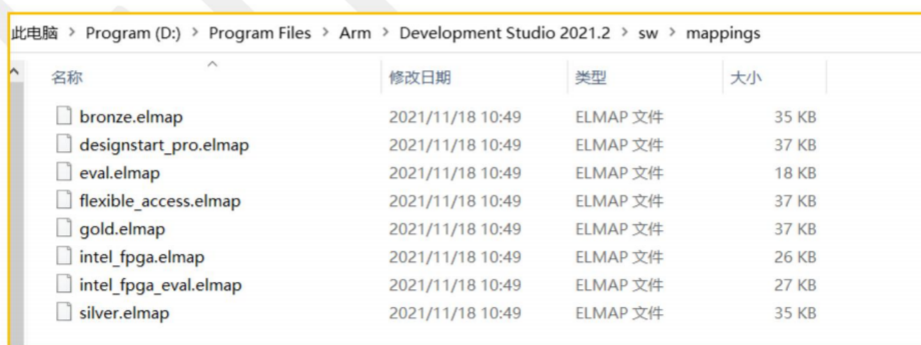
4) 选择第二个选项“License file”，添加好License文件，再点击“Finish”。



➤ 单独使用编译器

注：只能是Arm Development Studio Silver, Gold or Platinum 版本的 license 才兼容以前的旧版本编译器，Arm Development Studio Evaluation or Bronze 版本不支持。

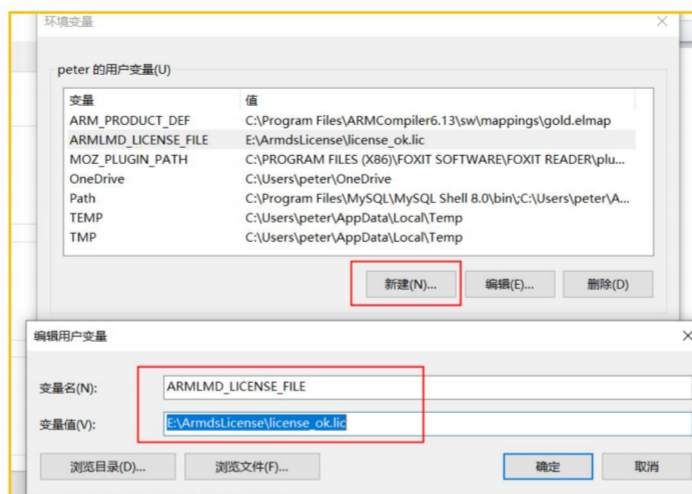
1) 产品类型说明文件所在路径如下，也可以把对应的产品类型说明文件复制到 armclang 的路径下。



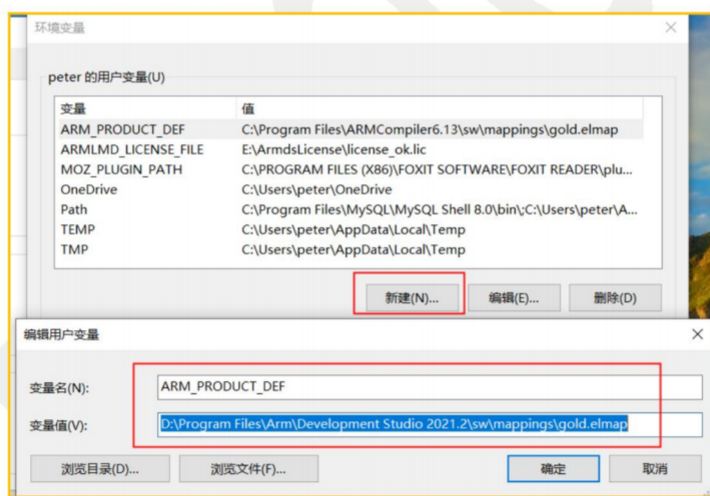
注意：对于 arm 原厂给的 1 年(给 FAE 的)都是 eval.elmap，正常购买的才是按照 arm ds

的版本类型来选择不同的文件。如果不确定用哪个，可以逐个尝试。

- 2) 设置 License 环境变量 ARMLMD_LICENSE_FILE,
ARMLMD_LICENSE_FILE=license 文件路径, 如:



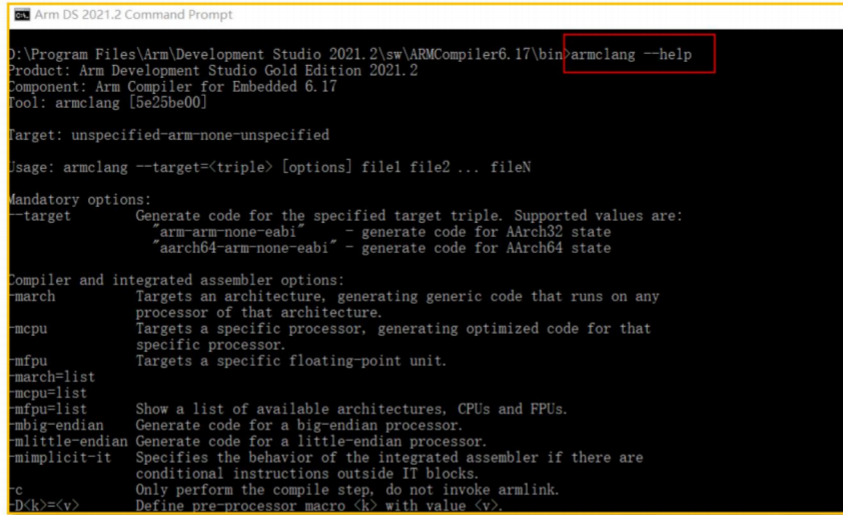
- 3) 创建 ARM_PRODUCT_DEF 环境变量
ARM_PRODUCT_DEF=elmap 文件的绝对路径设置步骤和
ARMLMD_LICENSE_FILE 类似



4) 验证:

在 cmd 窗口中切换到arm 编译器路径, 输入编译器名称并回车。比如: `armclang`

`--help`



```
Arm DS 2021.2 Command Prompt
D:\Program Files\Arm\Development Studio 2021.2\sw\ARMCompiler6.17\bin>armclang --help
Product: Arm Development Studio Gold Edition 2021.2
Component: Arm Compiler for Embedded 6.17
Tool: armclang [5e25be00]

Target: unspecified-arm-none-unspecified
Usage: armclang --target=<triple> [options] file1 file2 ... fileN

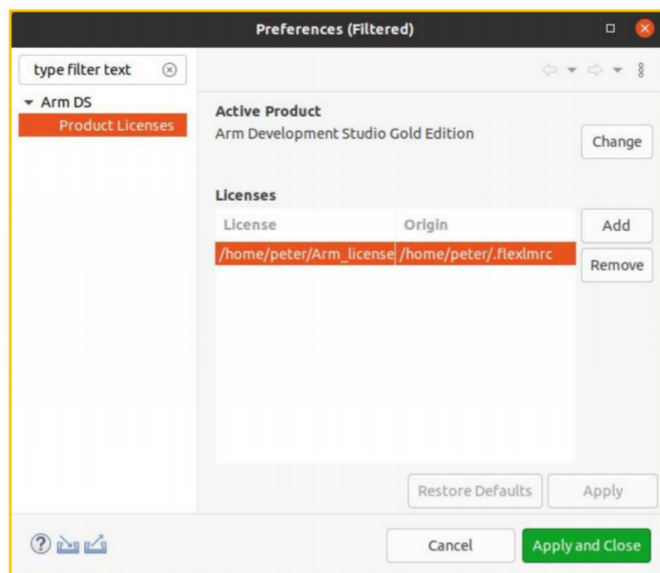
Mandatory options:
--target          Generate code for the specified target triple. Supported values are:
                  "arm-arm-none-eabi" - generate code for AArch32 state
                  "aarch64-arm-none-eabi" - generate code for AArch64 state

Compiler and integrated assembler options:
-march            Targets an architecture, generating generic code that runs on any
                  processor of that architecture.
-mcpu            Targets a specific processor, generating optimized code for that
                  specific processor.
-mfpu            Targets a specific floating-point unit.
-march=list       Show a list of available architectures, CPUs and FPU's.
-mcpu=list        Generate code for a big-endian processor.
-mbig-endian      Generate code for a little-endian processor.
-mimplicit-it     Specifies the behavior of the integrated assembler if there are
                  conditional instructions outside IT blocks.
-c               Only perform the compile step, do not invoke armlink.
-D<k>=<v>          Define pre-processor macro <k> with value <v>.
```

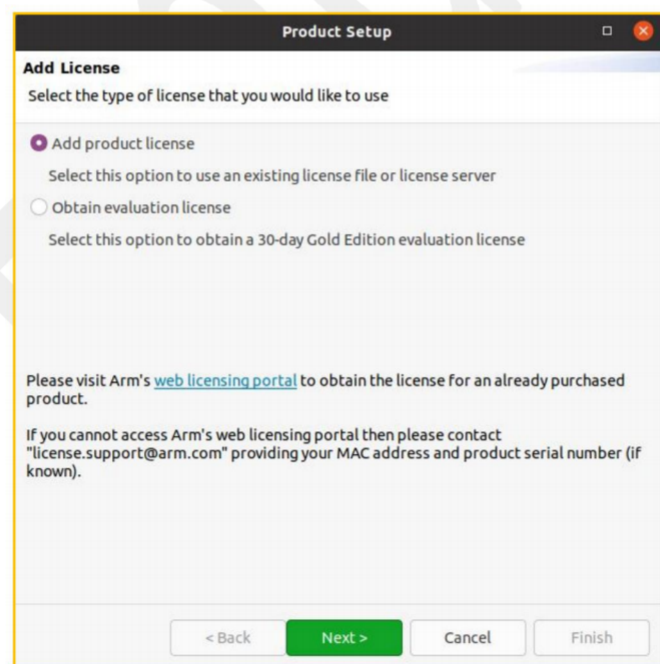
3.2 Linux 版

➤ 使用 ARMD S 软件

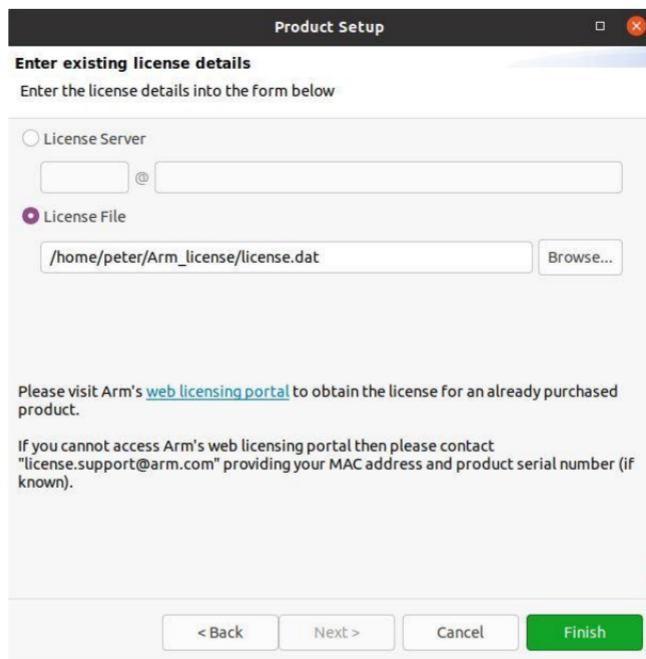
- 1) 打开Eclipse for ARM DS。
- 2) 选择“ Help> ARM License Manager”，再点击“Add ”。



- 3) 选择第一个选项，再点击“Next”。



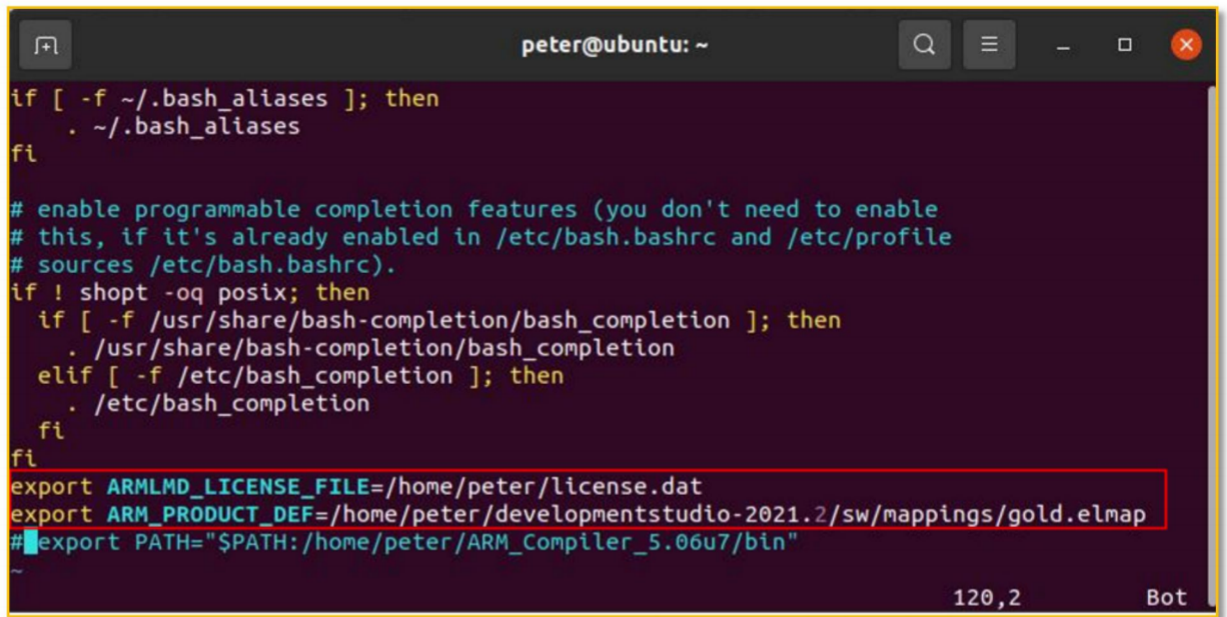
4) 选择第二个选项“License file”，添加好License文件，再点击“Finish”。



➤ 单独使用 arm compiler

注：只能是Arm Development Studio Silver, Gold or Platinum版本的license才兼容以前的旧版本编译器，Arm Development Studio Evaluation or Bronze版本不支持。

- 1) 在用户目录下的“.bashrc”文件中添加“ARMLMD_LICENSE_FILE”和“ARM_PRODUCT_DEF”环境变量的相关内容，如下图所示：



```
peter@ubuntu: ~  
if [ -f ~/.bash_aliases ]; then  
    . ~/.bash_aliases  
fi  
  
# enable programmable completion features (you don't need to enable  
# this, if it's already enabled in /etc/bash.bashrc and /etc/profile  
# sources /etc/bash.bashrc).  
if ! shopt -oq posix; then  
    if [ -f /usr/share/bash-completion/bash_completion ]; then  
        . /usr/share/bash-completion/bash_completion  
    elif [ -f /etc/bash_completion ]; then  
        . /etc/bash_completion  
    fi  
fi  
export ARMLMD_LICENSE_FILE=/home/peter/license.dat  
export ARM_PRODUCT_DEF=/home/peter/developmentstudio-2021.2/sw/mappings/gold.elmap  
# export PATH="$PATH:/home/peter/ARM_Compiler_5.06u7/bin"
```

ARMLMD_LICENSE_FILE=license 文件的绝对路径

ARM_PRODUCT_DEF=elmap 文件的绝对路径

对于arm原厂给的1年(给FAE的)都是eval.elmap，正常购买的才是按照arm ds的

版本类型来选择不同的文件。如果不确定用哪个，可以逐个尝试。

2) 验证:

在 cmd 窗口中切换到arm 编译器路径,输入编译器名称并回车。比如: armclang
--help

```
peter@ubuntu: /opt/arm/developmentstudio-2021.2/sw/AR...
peter@ubuntu:/opt/arm/developmentstudio-2021.2/sw/ARMCompiler6.17/bin$ ./armclang --help
Product: Arm Development Studio Gold Edition 2021.2
Component: Arm Compiler for Embedded 6.17
Tool: armclang [5e25bf00]

Target: unspecified-arm-none-unspecified

Usage: armclang --target=<triple> [options] file1 file2 ... fileN

Mandatory options:
--target          Generate code for the specified target triple. Supported values
are:
                  "arm-arm-none-eabi"      - generate code for AArch32 state
                  "aarch64-arm-none-eabi" - generate code for AArch64 state

Compiler and integrated assembler options:
-march            Targets an architecture, generating generic code that runs on an
y
processor of that architecture.
-mcpu            Targets a specific processor, generating optimized code for that
specific processor
```

网络版

一、下载 ARM DS license文件

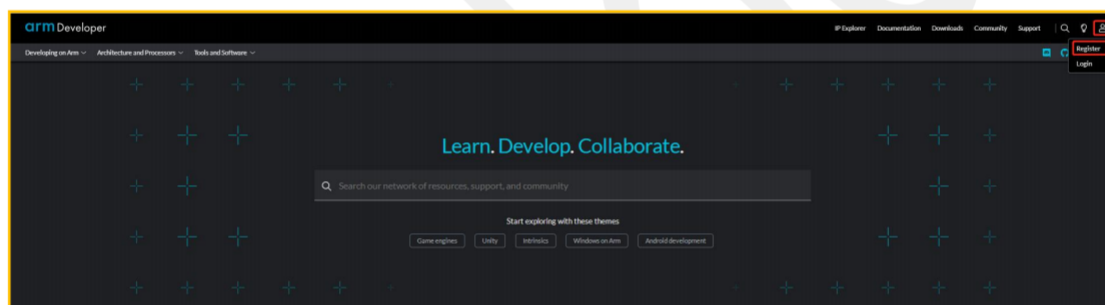
1.1 注册 ARM 帐户

如果您已经有 ARM 帐户了，请跳过”注册账号”这一节，直接看第二节”登录 ARM

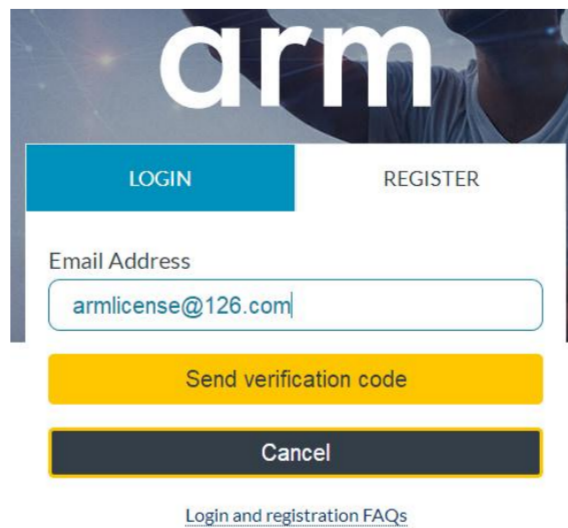
帐户，下载 License 文件”

如果打开 ARM 官网太慢，建议用笔记本电脑连接手机热点来访问 ARM 官网

- 5) 打开浏览器在地址栏中输入<https://developer.arm.com/> 进入 ARM 官网，点击右上角人物图标，选择 Register 进入注册页面

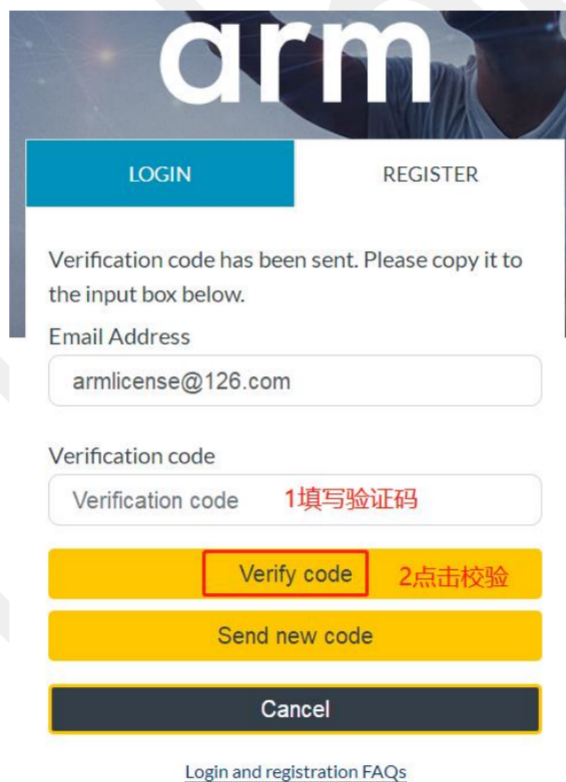


- 6) 在 Email address 栏处输入需要注册的邮箱地址，然后点击 Send verification code 按钮，向填写的邮箱发送一份带有验证码的邮件。



The screenshot shows the ARM login/register interface. At the top, the 'arm' logo is displayed. Below it, there are two tabs: 'LOGIN' (active) and 'REGISTER'. Under the 'LOGIN' tab, there is a text input field for 'Email Address' containing 'armlicense@126.com'. Below the input field, there are two buttons: a yellow 'Send verification code' button and a dark grey 'Cancel' button. At the bottom, there is a link for 'Login and registration FAQs'.

- 7) 收取邮件并将验证码填写到 Verification code 栏处，然后点击 Verify code 按钮。



The screenshot shows the ARM login/register interface after a verification code has been sent. The 'LOGIN' tab is active. A message states: 'Verification code has been sent. Please copy it to the input box below.' Below this, there is a text input field for 'Email Address' containing 'armlicense@126.com'. Below the email field, there is a text input field for 'Verification code' with a red prompt '1填写验证码' (1. Fill in the verification code). Below the verification code field, there are three buttons: a yellow 'Verify code' button (highlighted with a red box and labeled '2点击校验' (2. Click to verify)), a yellow 'Send new code' button, and a dark grey 'Cancel' button. At the bottom, there is a link for 'Login and registration FAQs'.

注意：如果您没有收到验证码可以点击 Send new code 按钮重新向刚才填写的邮箱中发送验证码;如果还是没有收到邮件，则有可以是邮箱过滤了一些陌生邮件，请到垃圾邮件中查看。但垃圾邮件中还没找到时，则可能是邮箱被设置了拦截功能请联系 IT 帮忙处理。

8) 填写相关信息，然后点击 Create 按钮创建帐户。

注意：建议在填写下面的相关个人信息的时候填写真实有效的信息，避免出现审核无法通过或审核时间太久的问题。

LOGIN

REGISTER

Please enter your details

Email Address

First name

Last name

Job Role

Target Markets

Country

Street Address

1st changanjie

City

BeiJing

Company (Optional)

emdoor

New Password

.....

Confirm New Password

.....

☐

I would like to receive marketing communications from Arm

Arm will process your information in accordance with [Arm's privacy policy](#).

Create

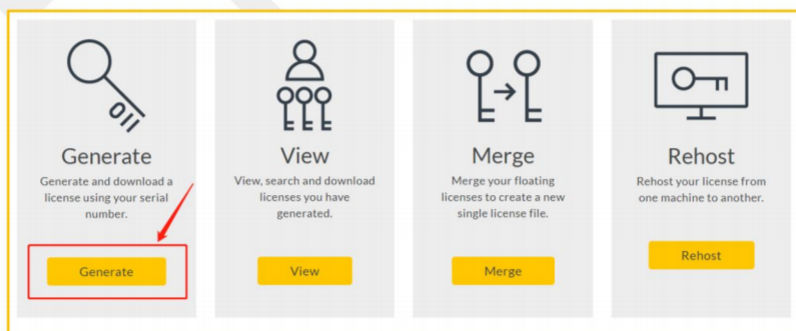
Cancel

[Login and registration FAQs](#)

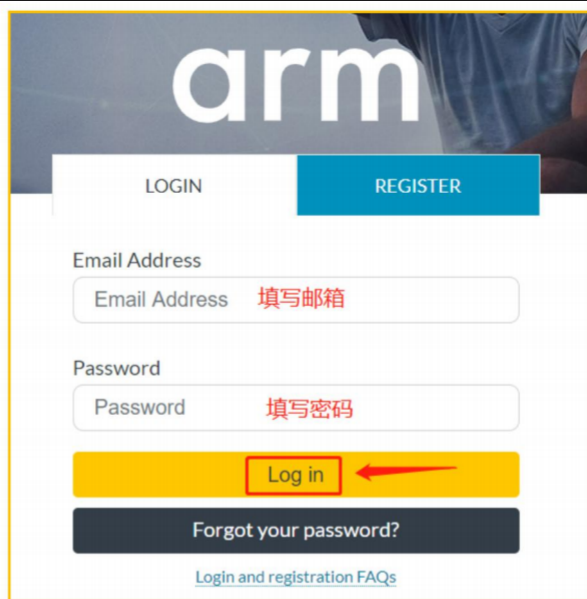
1.2 下载 License 文件

1. 打开ARM授权证书管理页面

<https://developer.arm.com/support/licensing>

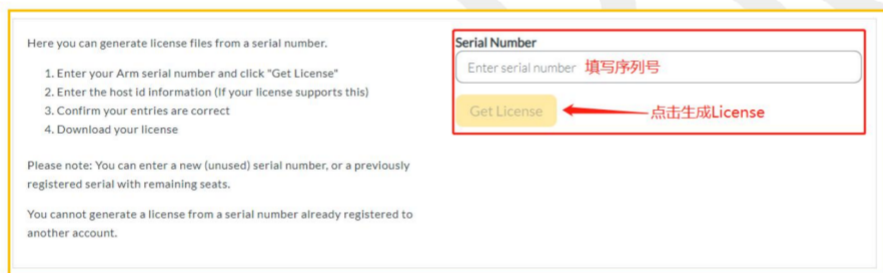


2. 登陆ARM账号



The image shows a web form titled 'arm' with two tabs: 'LOGIN' and 'REGISTER'. The 'REGISTER' tab is active. Below the tabs are two input fields: 'Email Address' with a red placeholder text '填写邮箱' and 'Password' with a red placeholder text '填写密码'. Below these fields is a yellow 'Log in' button with a red arrow pointing to it. Below the button is a dark grey 'Forgot your password?' link. At the bottom is a blue link 'Login and registration FAQs'.

3. 输入序列号，然后点击 **Get License** 按钮生成



The image shows a web form titled 'Here you can generate license files from a serial number.' with a list of steps: 1. Enter your Arm serial number and click "Get License", 2. Enter the host id information (If your license supports this), 3. Confirm your entries are correct, 4. Download your license. Below the list is a 'Please note' section. The main part of the form is a 'Serial Number' section with an input field labeled 'Enter serial number' and a red placeholder text '填写序列号'. Below the input field is a yellow 'Get License' button with a red arrow pointing to it and a red label '点击生成License'.

Here you can generate license files from a serial number.

1. Enter your Arm serial number and click "Get License"
2. Enter the host id information (If your license supports this)
3. Confirm your entries are correct
4. Download your license

Please note: You can enter a new (unused) serial number, or a previously registered serial with remaining seats.

You cannot generate a license from a serial number already registered to another account.

4. 在“Host Id”处填入要安装许可证的主机的MAC地址（物理地址），并点击“Generate”如图3-4。例如，物理地址为 00-50-56-C0-00-08，在输入的时候填写005056C00008即可，不需要写中间符号，只填写12位数字或字母。

5. 重复3-4步可将多套（若购买不止一个PSN（序列号））全部注册。
6. License合并，在merge选项，可以查看所有注册SN号，全选之后，点击merge按钮，合并license。（若只有一个PSN，则跳过该步骤）

	Serial Number	Part Number	Type	Start Date	End Date	Host Ids	Merge
View		DS000-LC-41001	Floating	2022-04-14	2023-04-30	F0D4E2E73A5C	☒
View		DS000-LC-41001	Floating	2022-04-14	2023-04-30	F0D4E2E73A5C	☒
View		DS000-LC-31001	Locked_Uncounted	2021-07-26	2022-07-31		☐
View	17	DS000-LC-41001	Floating	2022-04-14	2023-04-30	F0D4E2E73A5C	☒

注意：只有MAC地址相同的license才能合并

7. 点击View 再点击 Download License 按钮下载 license 文件，如果没有出现下载窗口请设置浏览器允许弹窗

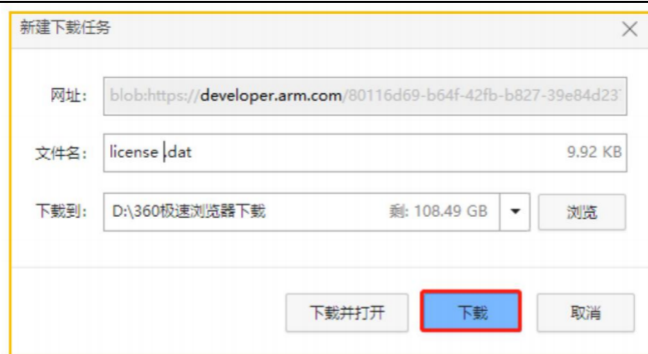
License file contents (Part: DS000-LC-41001)

Serial Number: 17

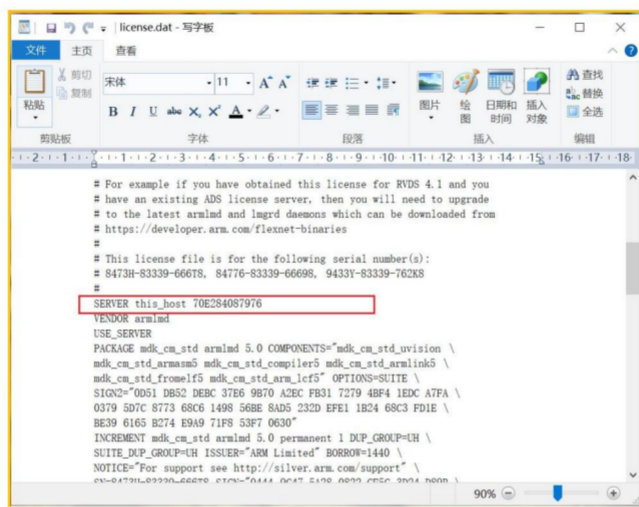
```
#
# ***** (IMPORTANT NOTE) *****
#
# This license is encrypted, editing may lead to it being made
# unusable.
#
# (INCREMENTAL_COMPILER, rovan armv8m0 0.1.31-jul-2022 uncounted)
# 8F64C0C0D52 *C03TD*844938244ec:05UEB*ARM Limited*)
# NOTICE: For support see http://www.arm.com/support/
# SN=CA92-87900-323C4 START=28-JUL-2021 TS_OK SIGMA=138120C7\
# 83B2 40B2 25B8 A901 159A 70B8 24C3 7488 011E A3A7 3A7B A9D\
# BCD4 0A3F A96B 4226 ABF0 5F92 F5E1 C2C8 B757 8D96 4A5C 0D5E\
# 7F82 51B4 C87F B467 5D12 04E2 3104 4232 1F98 4D0D 5F45 C625\
# 8417 3D45 7B14 C4FE D4D3 9F6F EC83 6BFO 0F28 8713 BA0B FAAC\
# 4CAF 8448 9D5C DC3A B2B6 D82E CD76 A763 238D C4AF 4212
```

[Download](#) [Close](#)

8. 在打开的页面中点击 下载按钮，下载 License 文件



9. 用Windows写字板 打开 license.dat 文件，如下图所示：



10. 将上图红色方框中的 SERVER this_host 70E284087976 修改为以下格式：

注意：此行前面没有‘#’号

SERVER 服务器名称(或者 IP 地址) 服务器 MAC 地址 端口号

如：SERVER HostName 70E284087976 8224

或：SERVER 192.168.1.2 70E284087976 8224

这里的服务器名称(IP 地址)和端口号，客户端软件授权时需要使用这两个参数

三、软件安装

3.1 Windows 版安装

➤ ARM DS 软件

双击安装包，下一步下一步即可(无需另行安装插件)。

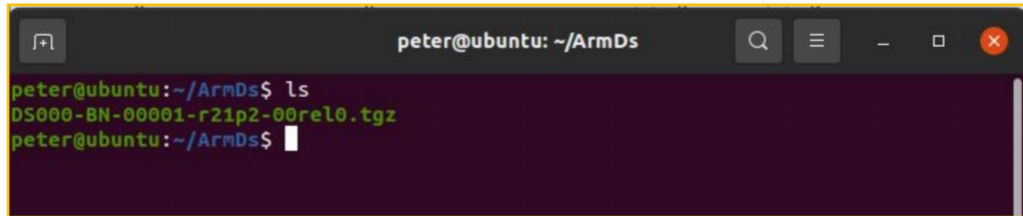
➤ 单独编译器安装

解压 ARM Compiler 文件到自定义目录，双击运行 `setup.exe` 进行 ARM Compiler 程序的安装。

3.2 Linux 版安装

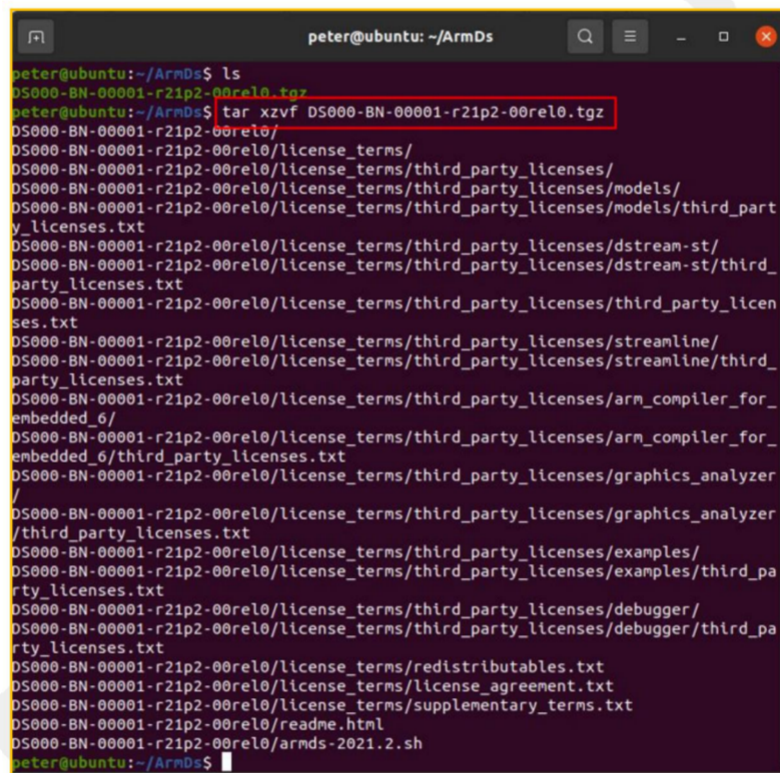
➤ ARM DS 软件

- 1) 把 ARM DS 的安装包拷贝到有读写权限的目录；



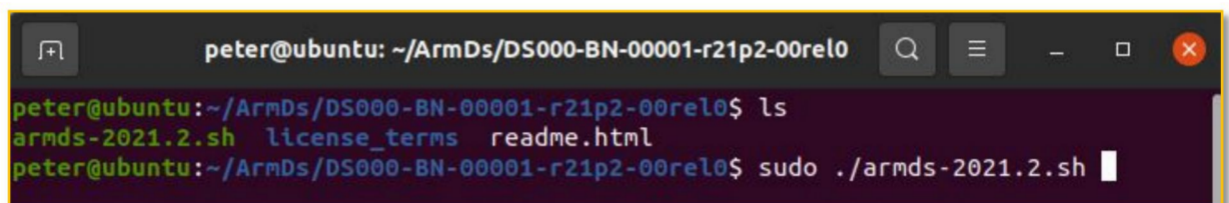
```
peter@ubuntu: ~/ArmDs
peter@ubuntu:~/ArmDs$ ls
DS000-BN-00001-r21p2-00rel0.tgz
peter@ubuntu:~/ArmDs$
```

- 2) 解压缩安装包, tar xzvf DS000-BN-00001-r21p2-00rel0.tgz



```
peter@ubuntu:~/ArmDs$ ls
DS000-BN-00001-r21p2-00rel0.tgz
peter@ubuntu:~/ArmDs$ tar xzvf DS000-BN-00001-r21p2-00rel0.tgz
DS000-BN-00001-r21p2-00rel0/
DS000-BN-00001-r21p2-00rel0/license_terms/
DS000-BN-00001-r21p2-00rel0/license_terms/third_party_licenses/
DS000-BN-00001-r21p2-00rel0/license_terms/third_party_licenses/models/
DS000-BN-00001-r21p2-00rel0/license_terms/third_party_licenses/models/third_party_licenses.txt
DS000-BN-00001-r21p2-00rel0/license_terms/third_party_licenses/dstream-st/
DS000-BN-00001-r21p2-00rel0/license_terms/third_party_licenses/dstream-st/third_party_licenses.txt
DS000-BN-00001-r21p2-00rel0/license_terms/third_party_licenses/third_party_licenses.txt
DS000-BN-00001-r21p2-00rel0/license_terms/third_party_licenses/streamline/
DS000-BN-00001-r21p2-00rel0/license_terms/third_party_licenses/streamline/third_party_licenses.txt
DS000-BN-00001-r21p2-00rel0/license_terms/third_party_licenses/arm_compiler_for_embedded_6/
DS000-BN-00001-r21p2-00rel0/license_terms/third_party_licenses/arm_compiler_for_embedded_6/third_party_licenses.txt
DS000-BN-00001-r21p2-00rel0/license_terms/third_party_licenses/graphics_analyzer/
DS000-BN-00001-r21p2-00rel0/license_terms/third_party_licenses/graphics_analyzer/third_party_licenses.txt
DS000-BN-00001-r21p2-00rel0/license_terms/third_party_licenses/examples/
DS000-BN-00001-r21p2-00rel0/license_terms/third_party_licenses/examples/third_party_licenses.txt
DS000-BN-00001-r21p2-00rel0/license_terms/third_party_licenses/debugger/
DS000-BN-00001-r21p2-00rel0/license_terms/third_party_licenses/debugger/third_party_licenses.txt
DS000-BN-00001-r21p2-00rel0/license_terms/redistributables.txt
DS000-BN-00001-r21p2-00rel0/license_terms/license_agreement.txt
DS000-BN-00001-r21p2-00rel0/license_terms/supplementary_terms.txt
DS000-BN-00001-r21p2-00rel0/readme.html
DS000-BN-00001-r21p2-00rel0/armds-2021.2.sh
peter@ubuntu:~/ArmDs$
```

- 3) 执行安装, sudo ./armds-2021.2.sh



```
peter@ubuntu: ~/ArmDs/DS000-BN-00001-r21p2-00rel0
peter@ubuntu:~/ArmDs/DS000-BN-00001-r21p2-00rel0$ ls
armds-2021.2.sh  license_terms  readme.html
peter@ubuntu:~/ArmDs/DS000-BN-00001-r21p2-00rel0$ sudo ./armds-2021.2.sh
```

```
END USER LICENCE AGREEMENT FOR THE ARM(r) DS-5 DEVELOPMENT STUDIO ("DS-5")

THIS END USER LICENCE AGREEMENT ("LICENCE") IS A LEGAL AGREEMENT BETWEEN YOU (EITHER A SINGLE INDIVIDUAL, OR SINGLE LEGAL ENTITY) AND ARM LIMITED ("ARM") FOR THE USE OF THE SOFTWARE ACCOMPANYING THIS LICENCE. ARM IS ONLY WILLING TO LICENSE THE SOFTWARE TO YOU ON CONDITION THAT YOU ACCEPT ALL OF THE TERMS IN THIS LICENCE. BY CLICKING "I AGREE" OR BY INSTALLING OR OTHERWISE USING OR COPYING THE SOFTWARE, YOU INDICATE THAT YOU AGREE TO BE BOUND BY ALL OF THE TERMS OF THIS LICENCE. IF YOU DO NOT AGREE TO THE TERMS OF THIS LICENCE, ARM IS UNWILLING TO LICENSE THE SOFTWARE TO YOU AND YOU MAY NOT INSTALL, USE OR COPY THE SOFTWARE, AND YOU SHOULD PROMPTLY RETURN THE SOFTWARE TO YOUR SUPPLIER AND ASK FOR A REFUND OF ANY LICENCE FEE PAID (IF ANY).

"Clang" means a compiler front end developed by http://clang.llvm.org.

"Licence Key" means an electronic licence key issued to you by ARM to enable the use of the Software.

"LLVM" means a code generation and optimization framework developed by http://llvm.org.

"Seat" means a written or electronic authorisation from ARM to run one copy of each of the licence managed components (as defined in the Software package) concurrently and only in the quantities stated in the sales order and delivery confirmation email, for the time period enabled by your Licence Key, and where applicable, only with the target devices specified in the sales order and/or licence file.

"Separate Files" means the separate files identified in Section 2 of the Schedule.

Please answer with one of: 'yes' or 'no/quit'
```

按“q”退出阅读 License 信息，输入“Yes”直接回车，开始安装 ARM DS。

```
Please answer with one of: 'yes' or 'no/quit'
Do you agree to the above terms and conditions? yes
```

4) 确认安装平台信息，直接回车

```
Please answer with one of: 'yes/y' or 'no/n'
Run installation platform requirement checks? [default: yes]
```

5) 选择安装 ARM DS 的路径：

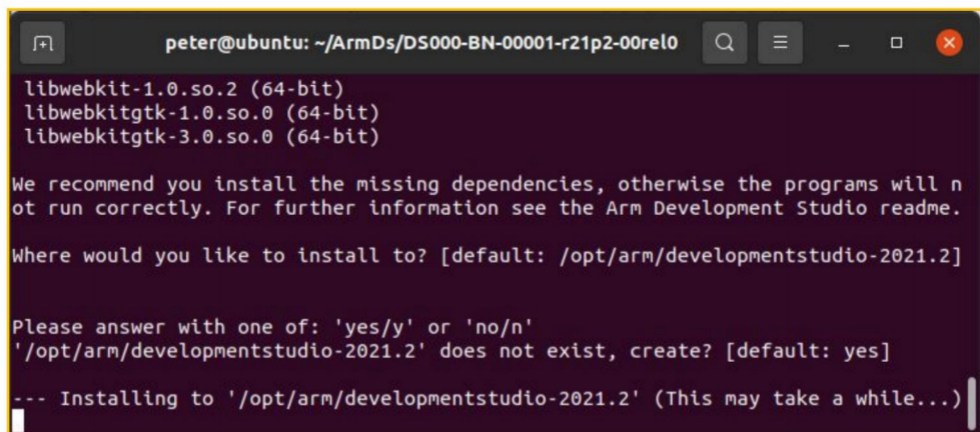
```
peter@ubuntu: ~/ArmDs/DS000-BN-00001-r21p2-00rel0
*** WARNING ***
One or more of the Arm Development Studio system dependencies are not installed,
see below for a list of the missing libraries.

libz.so.1 (32-bit)
One of:
libwebkit-1.0.so.2 (64-bit)
libwebkitgtk-1.0.so.0 (64-bit)
libwebkitgtk-3.0.so.0 (64-bit)

We recommend you install the missing dependencies, otherwise the programs will not run correctly. For further information see the Arm Development Studio readme.

Where would you like to install to? [default: /opt/arm/developmentstudio-2021.2]
```


6) 是否创建安装目录，默认直接回车开始安装



```
peter@ubuntu: ~/ArmDs/DS000-BN-00001-r21p2-00rel0
libwebkit-1.0.so.2 (64-bit)
libwebkitgtk-1.0.so.0 (64-bit)
libwebkitgtk-3.0.so.0 (64-bit)

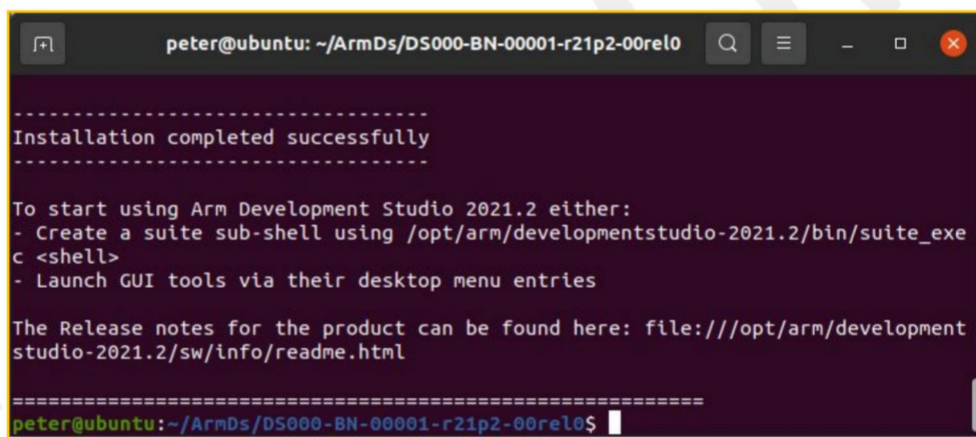
We recommend you install the missing dependencies, otherwise the programs will not run correctly. For further information see the Arm Development Studio readme.

Where would you like to install to? [default: /opt/arm/developmentstudio-2021.2]

Please answer with one of: 'yes/y' or 'no/n'
'/opt/arm/developmentstudio-2021.2' does not exist, create? [default: yes]
--- Installing to '/opt/arm/developmentstudio-2021.2' (This may take a while...)
```

根据不同电脑配置安装时间一般从几分钟到半个小时不等；

7) 安装完成



```
-----
Installation completed successfully
-----

To start using Arm Development Studio 2021.2 either:
- Create a suite sub-shell using /opt/arm/developmentstudio-2021.2/bin/suite_exec <shell>
- Launch GUI tools via their desktop menu entries

The Release notes for the product can be found here: file:///opt/arm/developmentstudio-2021.2/sw/info/readme.html

=====
peter@ubuntu:~/ArmDs/DS000-BN-00001-r21p2-00rel0$
```

➤ 单独编译器安装

解压并切换到 Arm compiler 解压的目录中，然后在命令行终端中输入 ./setup.sh 就行

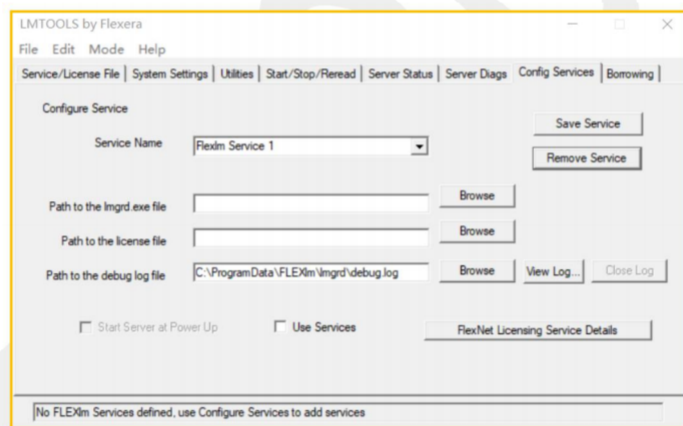
四、 服务器端管理工具安装

4.1 Windows 版

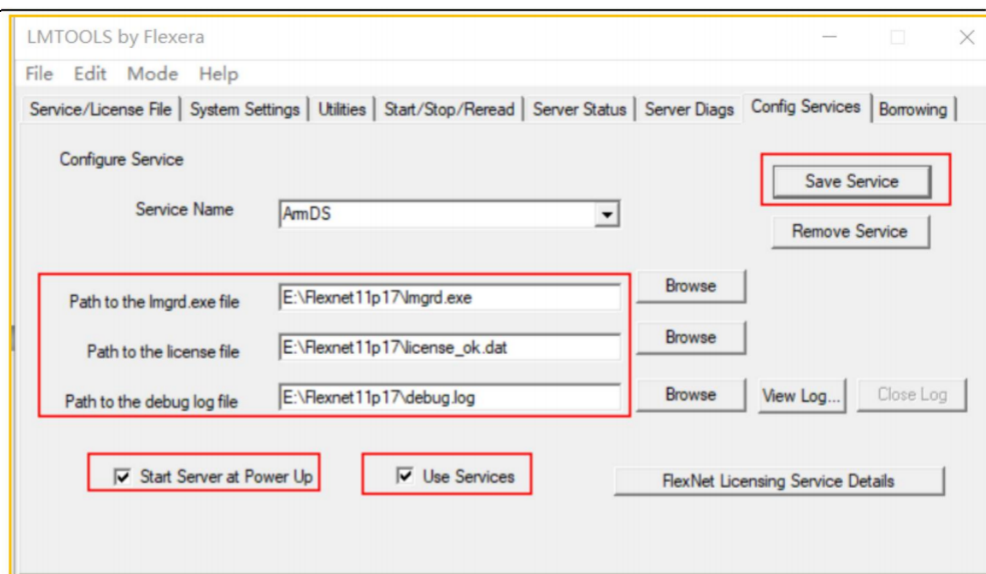
1) 我们以 X86-64 位的Flexnet工具软件为例，下载Flexnet工具后，需要解压，解压后打开文件夹。如下图：



2) 双击 Imtools.exe，出现以下对话框，点击 Config Services。



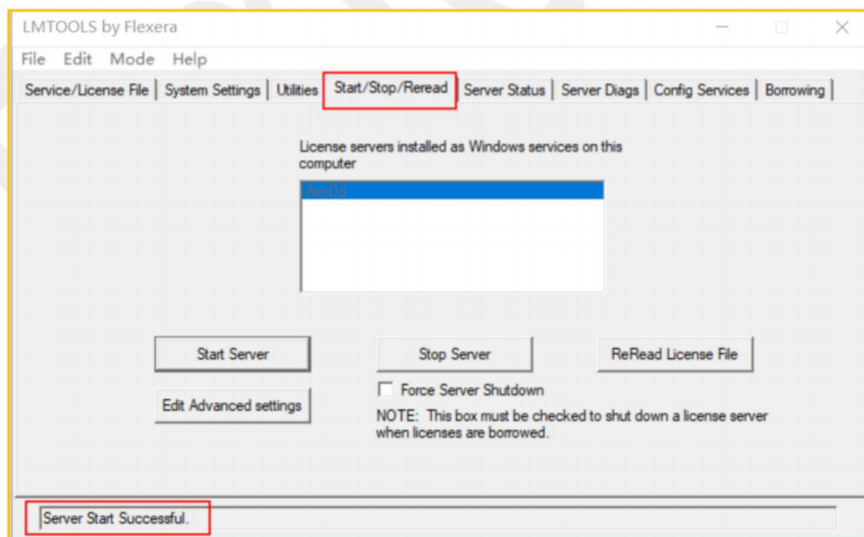
3) 点击 Config Services，开始配置服务。



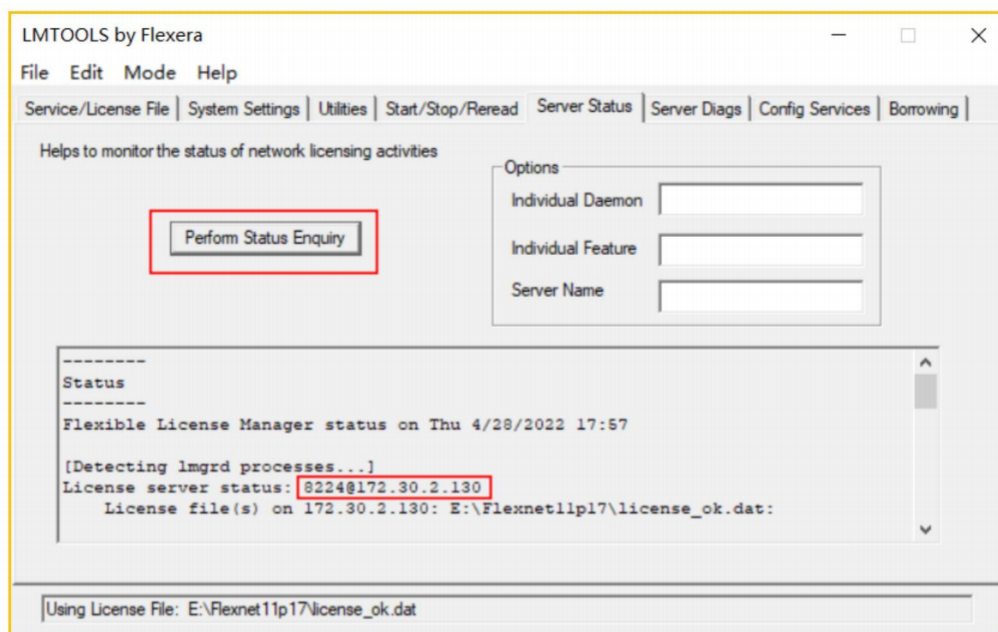
注：选填各个路径，所有的文件最好都在同一个目录下：

lmgrd.exe 在下载的软件的文
件夹里 **license.dat** 从官方网站
下载
debug log file 需要新建。

4) 以上步骤完成后，点击 **save service** 保存操作。点击 **Start/Stop/Reread** 栏，点击 **Start Server**，启动服务（**Server Starts Successfully**）。



5) 用户可点击 **Server Status** 查看服务状态。



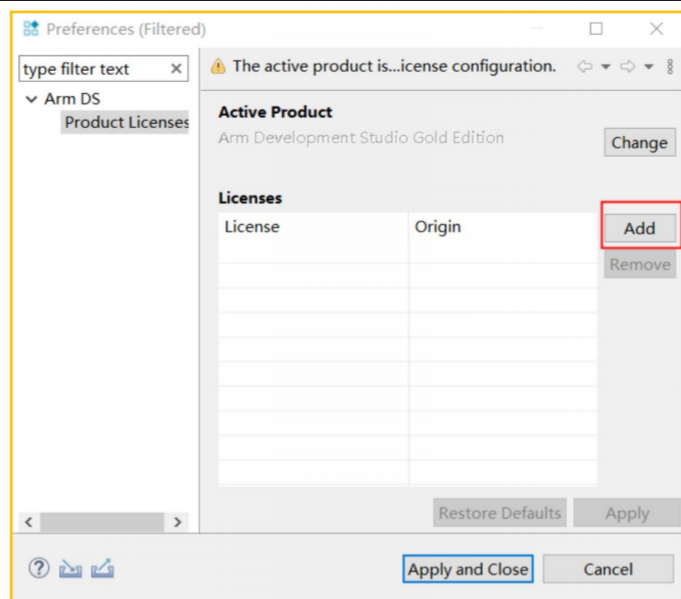
点击 Perform Status Enquiry下方会出现当前license的状态。到此，服务器端安装完成。

五、 激活软件

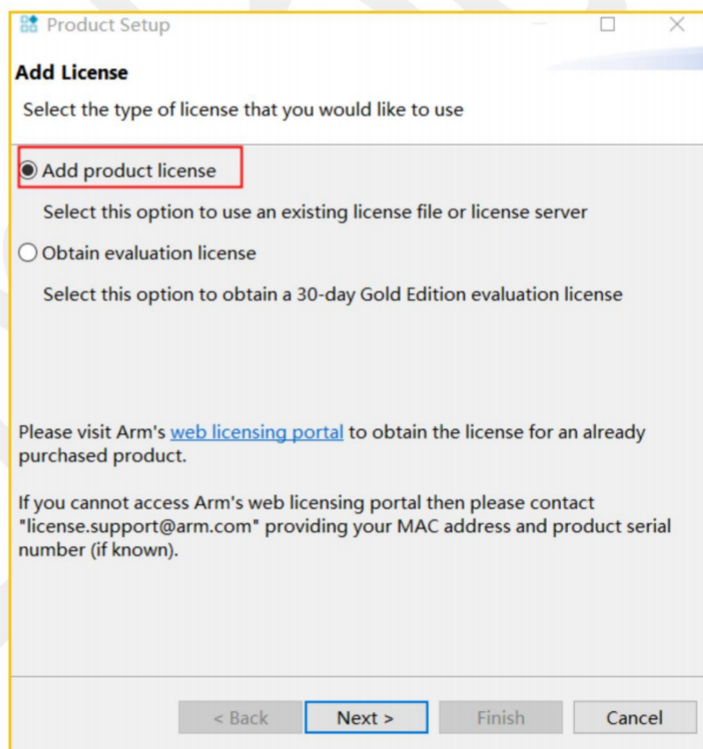
5.1 Windows 版

➤ ARM DS软件

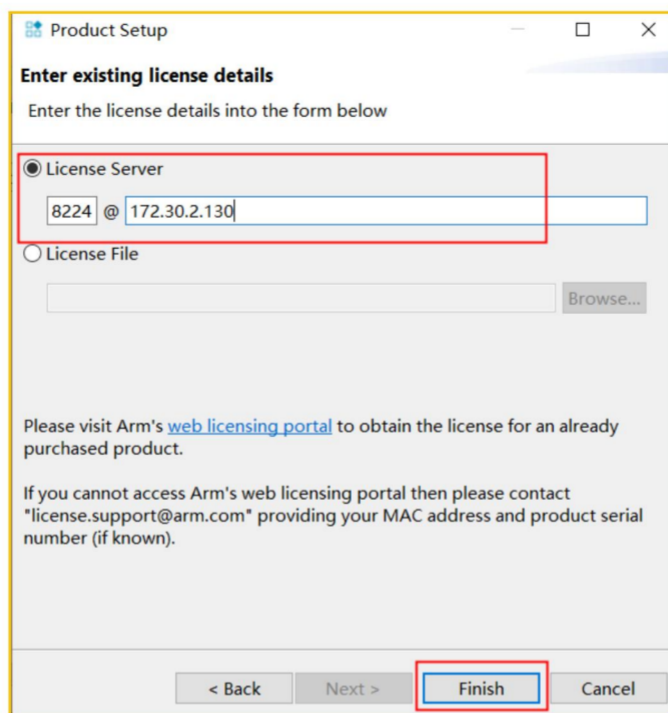
- 1) 打开Eclipse for ARM DS。
- 2) 选择“ Help> ARM License Manager”，再点击“Add”。



3) 选择第一个选项，再点击“Next”。



- 4) 选择License Server，Host选择IP地址，Port是服务器启动的Port，再点击“Finish”。



The image shows a 'Product Setup' dialog box with the title 'Enter existing license details'. It instructs the user to 'Enter the license details into the form below'. There are two radio button options: 'License Server' (selected) and 'License File'. The 'License Server' option has two text input fields: the first contains '8224' and the second contains '172.30.2.130'. The 'License File' option has a text input field and a 'Browse...' button. Below the input fields, there is a paragraph of text: 'Please visit Arm's [web licensing portal](#) to obtain the license for an already purchased product. If you cannot access Arm's web licensing portal then please contact "license.support@arm.com" providing your MAC address and product serial number (if known)'. At the bottom of the dialog box, there are four buttons: '< Back', 'Next >', 'Finish', and 'Cancel'. The 'Finish' button is highlighted with a red rectangle.

➤ 单独编译器

- 1) 产品类型说明文件所在路径如下，也可以把对应的产品类型说明文件复制到 armclang 的路径下。

此电脑 > Program (D:) > Program Files > Arm > Development Studio 2021.2 > sw > mappings

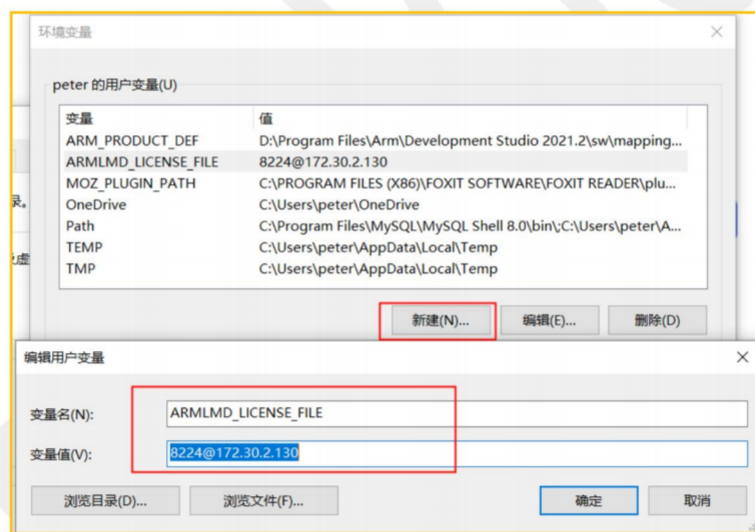
名称	修改日期	类型	大小
bronze.elmap	2021/11/18 10:49	ELMAP 文件	35 KB
designstart_pro.elmap	2021/11/18 10:49	ELMAP 文件	37 KB
eval.elmap	2021/11/18 10:49	ELMAP 文件	18 KB
flexible_access.elmap	2021/11/18 10:49	ELMAP 文件	37 KB
gold.elmap	2021/11/18 10:49	ELMAP 文件	37 KB
intel_fpga.elmap	2021/11/18 10:49	ELMAP 文件	26 KB
intel_fpga_eval.elmap	2021/11/18 10:49	ELMAP 文件	27 KB
silver.elmap	2021/11/18 10:49	ELMAP 文件	35 KB

注意：对于 arm 原厂给的 1 年(给 FAE 的)都是 eval.elmap，正常购买的才是按照 arm ds

的版本类型来选择不同的文件。如果不确定用哪个，可以逐个尝试。

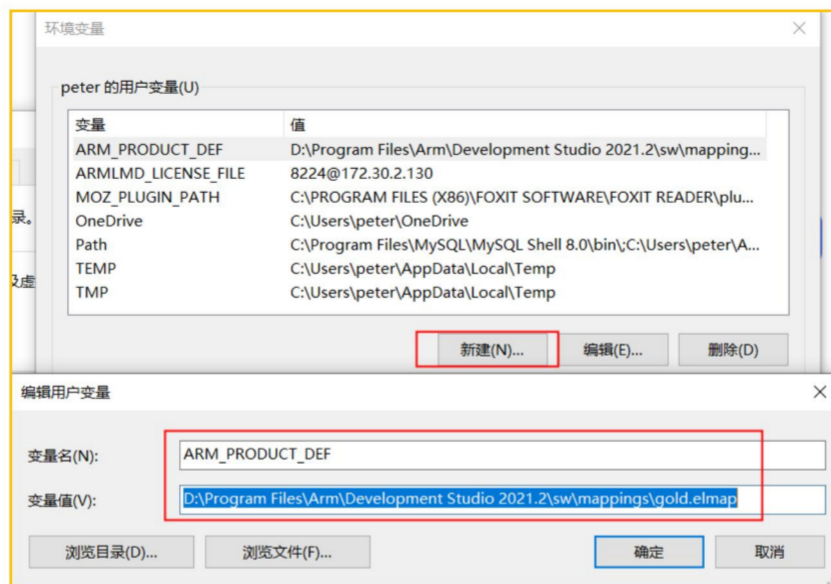
- 2) 设置 License 环境变量 ARMLMD_LICENSE_FILE

ARMLMD_LICENSE_FILE=license 文件路径，如：



3) 创建 ARM_PRODUCT_DEF 环境变量

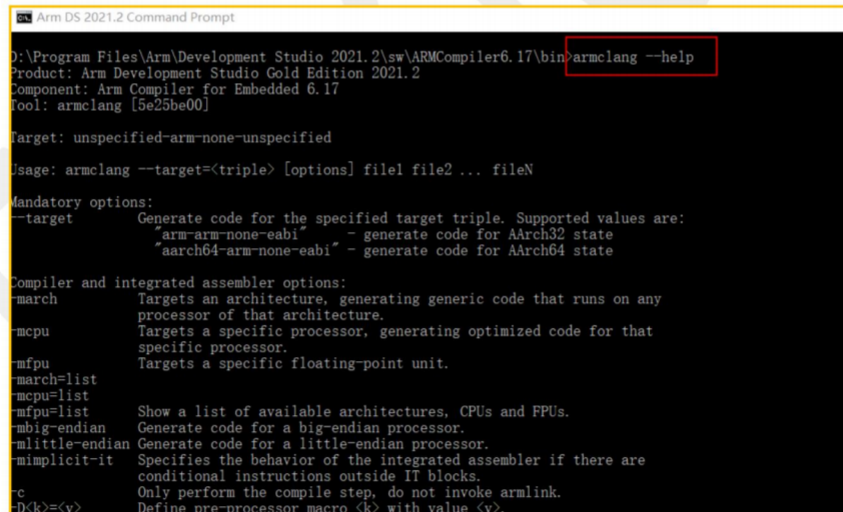
ARM_PRODUCT_DEF=elmap 文件的绝对路径设置步骤和 ARMLMD_LICENSE_FILE 类似



4) 验证:

在 cmd 窗口中切换到 arm 编译器路径, 输入编译器名称并回车。比如: armclang

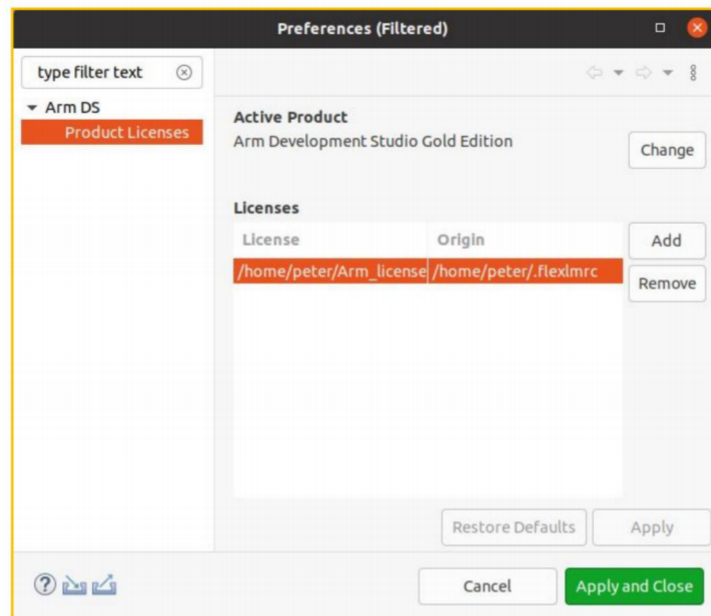
--help



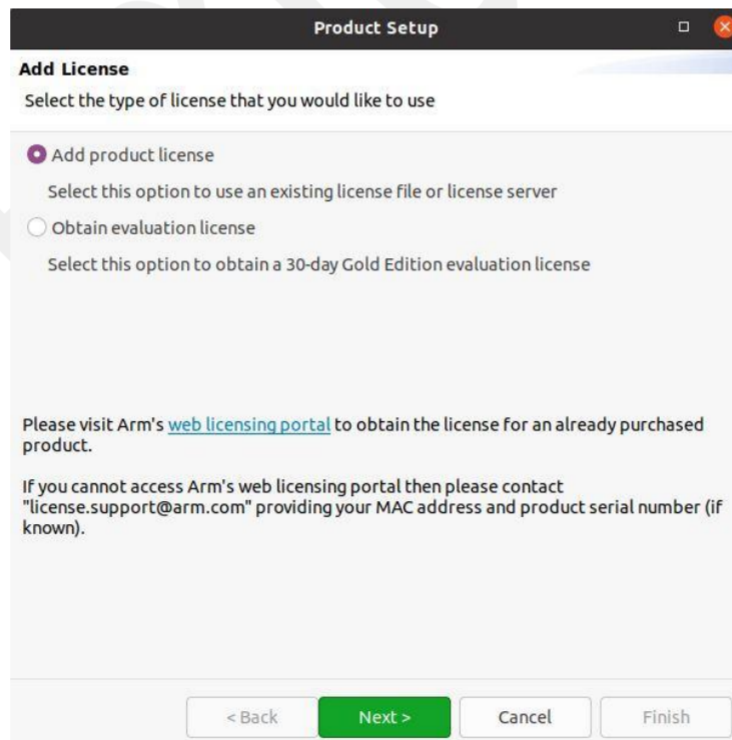
5.2 Linux 版

➤ ARM DS 软件

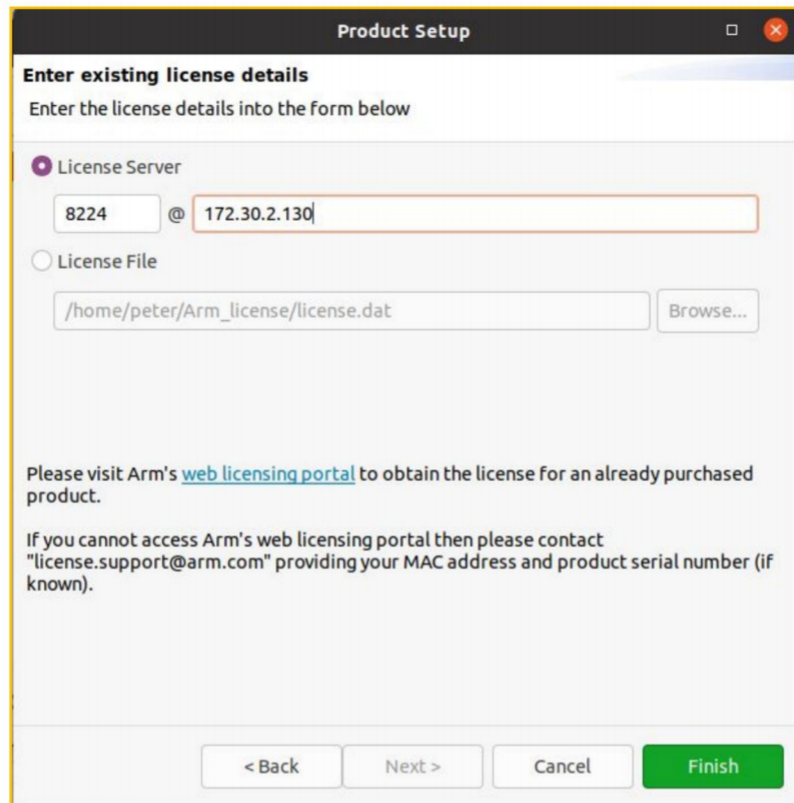
- 1) 打开Eclipse for ARM DS。
- 2) 选择“ Help> ARM License Manager”，再点击“Add ”。



- 3) 选择第一个选项，再点击“Next”。



4) 选择License Server ，Host选择IP地址，Port是服务器启动的Port。



The image shows a 'Product Setup' dialog box with the title 'Product Setup'. It contains a section titled 'Enter existing license details' with the instruction 'Enter the license details into the form below'. There are two radio buttons: 'License Server' (selected) and 'License File'. Under 'License Server', there is a port input field containing '8224' and an IP address input field containing '172.30.2.130'. Under 'License File', there is a text input field containing '/home/peter/Arm_license/license.dat' and a 'Browse...' button. Below the input fields, there is a paragraph of text: 'Please visit Arm's [web licensing portal](#) to obtain the license for an already purchased product. If you cannot access Arm's web licensing portal then please contact "license.support@arm.com" providing your MAC address and product serial number (if known)'. At the bottom, there are four buttons: '< Back', 'Next >', 'Cancel', and a green 'Finish' button.

➤ 单独编译器

注：只能是Arm Development Studio Silver, Gold or Platinum版本的license才兼容以前的旧版本编译器，Arm Development Studio Evaluation or Bronze版本不支持。

- 1) 在用户目录下的 “.bashrc” 文件中添加“ARMLMD_LICENSE_FILE”和“ARM_PRODUCT_DEF”环境变量的相关内容，如下图所示：

```
peter@ubuntu: ~
if [ -f ~/.bash_aliases ]; then
    . ~/.bash_aliases
fi

# enable programmable completion features (you don't need to enable
# this, if it's already enabled in /etc/bash.bashrc and /etc/profile
# sources /etc/bash.bashrc).
if ! shopt -oq posix; then
    if [ -f /usr/share/bash-completion/bash_completion ]; then
        . /usr/share/bash-completion/bash_completion
    elif [ -f /etc/bash_completion ]; then
        . /etc/bash_completion
    fi
fi
export ARMLMD_LICENSE_FILE=8224@172.30.2.130
export ARM_PRODUCT_DEF=/home/peter/developmentstudio-2021.2/sw/mappings/gold.elmap
# export PATH=$PATH:/home/peter/ARM_Compiler_5.06u7/bin
```

ARMLMD_LICENSE_FILE=license 文件的所在服务器的端口号@IP

ARM_PRODUCT_DEF=elmap 文件的绝对路径

对于arm原厂给的1年(给FAE的)都是eval.elmap，正常购买的才是按照arm ds的版本类型来选择不同的文件。如果不确定用哪个，可以逐个尝试。

2) 验证:

在 cmd 窗口中切换到arm 编译器路径,输入编译器名称并回车。比如: armclang - help

```
peter@ubuntu: /opt/arm/developmentstudio-2021.2/sw/AR...
peter@ubuntu: /opt/arm/developmentstudio-2021.2/sw/ARMCompiler6.17/bin$ ./armclang --help
Product: Arm Development Studio Gold Edition 2021.2
Component: Arm Compiler for Embedded 6.17
Tool: armclang [5e25bf00]

Target: unspecified-arm-none-unspecified

Usage: armclang --target=<triple> [options] file1 file2 ... fileN

Mandatory options:
--target          Generate code for the specified target triple. Supported values
are:
                  "arm-arm-none-eabi"      - generate code for AArch32 state
                  "aarch64-arm-none-eabi" - generate code for AArch64 state

Compiler and integrated assembler options:
-march            Targets an architecture, generating generic code that runs on an
y                processor of that architecture.
-mcpu            Targets a specific processor, generating optimized code for that
specific processor
```