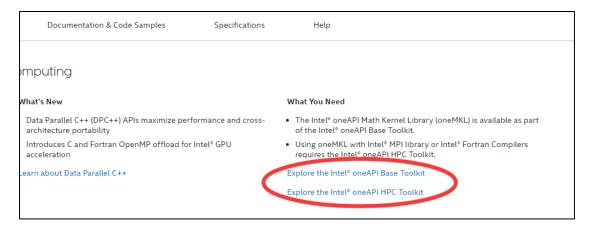
一、在官网

https://software.intel.com/content/www/us/en/develop/tools/oneapi/components/onemkl.html 下载 linux 系统版本的两个安装包:

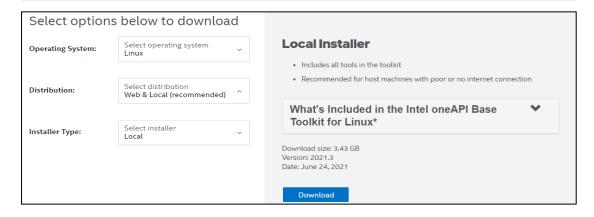
- 1. Intel® oneAPI Base Toolkit
- 2. Intel® oneAPI HPC Toolkit

下载过程示意图如下:



This toolkit is an add-on to the Intel® oneAPI Base Toolkit, which is required for full functionality. It also includes access to the Intel® Distribution for Python*, the Intel® oneAPI DPC++/C++ Compiler, powerful data-centric libraries, and advanced analysis tools.





二、安装 1 BaseKit p 2021.3.0.3219 offline

1. 安装必要软件包(每台机子可能有差别):

sudo apt-get install libnss3 sudo apt-get install libnotify4 sudo apt-get install libgtk-3-0 sudo apt-get install xdg-utils sudo apt-get install libgbm1 sudo apt-get install libglib2.0-bin sudo apt-get install libatspi2.0-0

- 2. 界面提示安装方法: sudo sh l BaseKit p 2021.3.0.3219 offline
- 3. 命令行(非界面)提示安装方法教程:
 <a href="https://software.intel.com/content/www/us/en/develop/documentation/installation-guide-for-intel-oneapi-toolkits-linux/top/installation/install-with-command-line.html#install
 for-intel-oneapi-toolkits-linux/top/installation/install-with-command-line.html#install
 for-intel-oneapi-toolkits-linux/top/installation/install-with-command-line.html#install
 for-intel-oneapi-toolkits-linux/top/installation/install-with-command-line.html#install
 for-intel-oneapi-toolkits-linux/top/installation/install-with-command-line.html#install
 for-intel-oneapi-toolkits-linux/top/installation/installation/installation-guide
 for-intel-oneapi-toolkits-linux/top/installation/installation-guide
 for-intel-oneapi-toolkits-linux/top/installation-guide
 for-intel-oneapi-toolkits-linux/top/installation/installation-guide
 for-intel-oneapi-toolkits-linux/top/installation/installation-guide
 for-intel-oneapi-toolkits-linux/top/installation/installation-guide
 for-intel-oneapi-toolkits-linux/top/installation/installation-guide
 for-intel-oneapi-toolkits-linux/top/installation-guide
 for-intel-oneapi-to-guide-

 $\frac{for-intel-one api-toolkits-linux/top/installation/install-with-command-line.html\#install-with-command-line}{with-command-line}$

- 4. 命令为: sudo sh l_BaseKit_p_2021.3.0.3219_offline.sh -s -a --silent --eula accept
- 4. 安装成功会显示如下图的信息,如果显示 failed 则重启计算机再尝试安装。

三、安装 1 HPCKit p 2021.3.0.3230 offline.sh

- 1. 界面提示安装方法: sudo sh 1 HPCKit p 2021.3.0.3230 offline.sh
- 2. 命令行(非界面)提示安装方法教程:

https://software.intel.com/content/www/us/en/develop/documentation/installation-guide-for-intel-oneapi-toolkits-linux/top/installation/install-with-command-line.html#install-with-command-line

- 3. 命令为: sudo sh./l HPCKit p 2021.3.0.3230 offline.sh -s -a --silent --eula accept
- 4. 安装成功会显示如下信息,如果显示 failed 则重启计算机再尝试安装。

```
yuanjianlong@DESKTOP-NNDICOP:/mnt/d/softwarePackages$ sudo sh ./1_HPCKit_p_2021.3.0.3230_offline.sh -s -a --silent --eula accept
QStandardPaths: XDG_RUNTIME_DIR not set, defaulting to '/tmp/runtime-root'
Checking system requirements...
Done.
Wait while the installer is preparing...
Done.
Launching the installer...
QStandardPaths: XDG_RUNTIME_DIR not set, defaulting to '/tmp/runtime-root'
Start installation flow...
Installed Location: /opt/intel/oneapi
Installed Location: /opt/intel/oneapi
Installation has successfully completed
Log file: /opt/intel/oneapi/logs/installer.install.intel.oneapi.lin.hpckit.product,v=2021.3.0-3230.2021.09.10.16.03.56.561029.10g
yuanjianlong@DESKTOP-NNDICOP:/mnt/d/softwarePackages$
```

四、设置环境变量

1) source ./opt/intel/oneapi/setvars.sh 显示如下信息:

```
vuanjianlong@DESKTOP-NWDIC9P:/$ source ./opt/intel/oneapi/setvars.sh

:: initializing oneAPI environment ...
    -bash: BASH_VERSION = 4.4.20(1)-release
:: advisor -- latest
:: col -- latest
:: col -- latest
:: compiler -- latest
:: dal -- latest
:: dal -- latest
:: debugger -- latest
:: devugler -- latest
:: dy -- latest
:: dy -- latest
:: dpopp-ct -- latest
:: intellython -- latest
:: inspector -- latest
:: intellython -- latest
:: ipp-- latest
:: ipp-- latest
:: itac -- latest
:: itac -- latest
:: itac -- latest
:: mpi -- latest
:: ty -- la
```

- 2) 在终端输入: vi ~/.bashrc
- 3) 在底部加上环境变量语句:

export INTEL_PATH=/opt/intel/oneapi/mpi/2021.3.0 export PATH=\$PATH:\$INTEL_PATH/bin

- 4) 保存并退出~/.bashrc
- 5) 环境变量生效, 执行:

source ~/.bashrc

6) 检查是否安装成功, 在终端输入 mpirun, 显示:

或者在终端输入: ifort -v

```
yuanjianlong@DESKTOP-NNDIC9P:/$ ifort -v
ifort version 2021.3.0
yuanjianlong@DESKTOP-NNDIC9P:/$
```