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(<https://lishuma.com/archives/category/%e6%8a%80%e6%9c%af%e7%a0%94%e7%a9%b6>) > 让普通电脑用上 Intel 傲腾加速的方法

让普通电脑用上 Intel 傲腾加速的方法 (<https://lishuma.com/archives/1974>)

🕒 2018-4-19 🕑 27,682

首先声明，本文思路来源于 PCEVA，本人只是进行了一遍实际操作，并尽量简单明了的说明一下过程

原文链接：傲腾内存应用拓展说明书 (<http://www.pceva.com.cn/article/3575-1.html>)

操作所用的这种方法不同于 intel 官方，实际思路其实很简单，其他第三方缓存加速软件也可以使用。

理论上只要安装了 64 位系统，并且有空余显卡插槽的机子都可以用。对原有系统无任何影响，可以无缝切换。

只建议台式机用户折腾，笔记本用户推荐直接购买 SSD。

另外由于 M.2 转 PCI-E 转接卡均为 PCI-E x4 接口，而一般主板都只会提供 x16 和 x1 两种插槽，因此要使用这种方法请确保主板上有空余的 x16 槽。

测试平台为奔腾 G3258+H81 组合，系统为 Windows 10 1709 x64。



(<https://lishuma.com/wp-content/uploads/2018/04/系统信息.jpg>)

首先需要购买傲腾和 M.2 转 PCI-E 转接卡



(https://lishuma.com/wp-content/uploads/2018/04/IMG_20180419_135828.jpg)

然后将傲腾装上转接卡，并且装进机箱，这一步就不做过多赘述了：



(https://lishuma.com/wp-content/uploads/2018/04/IMG_20180419_140516.jpg)

然后去这里：<https://www.intel.com/content/www/us/en/software/intel-cache-acceleration-software-performance.html>

(<https://www.intel.com/content/www/us/en/software/intel-cache-acceleration-software-performance.html>)，下载 Intel CAS 程序。

打开页面后往下翻，看到体验 CAS 部分，这个软件对于 intel 自家的 SSD 用户是免费的，所以点击红框里的选项

Experience Intel® CAS

Intel® Cache Acceleration Software (Intel® CAS) installs in moments. Whether you are using VMs or dedicated servers, you will quickly see how our server-side caching software accelerates your I/O-bound business applications using SAN or direct attached storage to any Flash device (SAS, SATA, or PCIe*). Want to try before you buy? A 120-day trial version of Intel® Cache Acceleration Software (Intel® CAS) is available, choose your platform and get started.

Free when used with an Intel® SSD

› [Intel® CAS Entry Edition for Windows* \(server OS support\)](#)

Try (120 day free trial)

› [Intel® CAS for Windows* \(client or server OS support\)](#)

› [Intel® CAS for Linux*](#)

Buy

› [Intel® CAS for Windows* \(client or server OS support\)](#)

› [Intel® CAS for Linux*](#)

(https://lishuma.com/wp-content/uploads/2018/04/搜狗截图18年04月19日1902_1.png)

点进去后会来到这个申请页面，要求填写邮箱姓名国家之类的信息



The image shows the landing page for the Intel Cache Acceleration for Windows* OS Entry Edition for Intel® SSD. The page features a large blue background with abstract white and blue swooshes. On the left, there's a vertical bar with the Intel logo. The main title is "Intel® Cache Acceleration for Windows* OS Entry Edition for Intel® SSD". Below the title, there's a form with fields for Email*, Confirm Email*, First Name*, Last Name*, Country / Region*, Company*, and Number of seats requested*. There's also a checkbox for staying connected with marketing emails, a "Submit" button at the bottom, and a "Privacy Notice and Terms of Use" link at the bottom right.

Intel® Cache Acceleration for Windows* OS Entry Edition for Intel® SSD

Email *

Valid email address is needed to complete the installation process and to inform you when product updates are available

Confirm Email *

First Name *

Last Name *

Country / Region * [Please select]

Company *

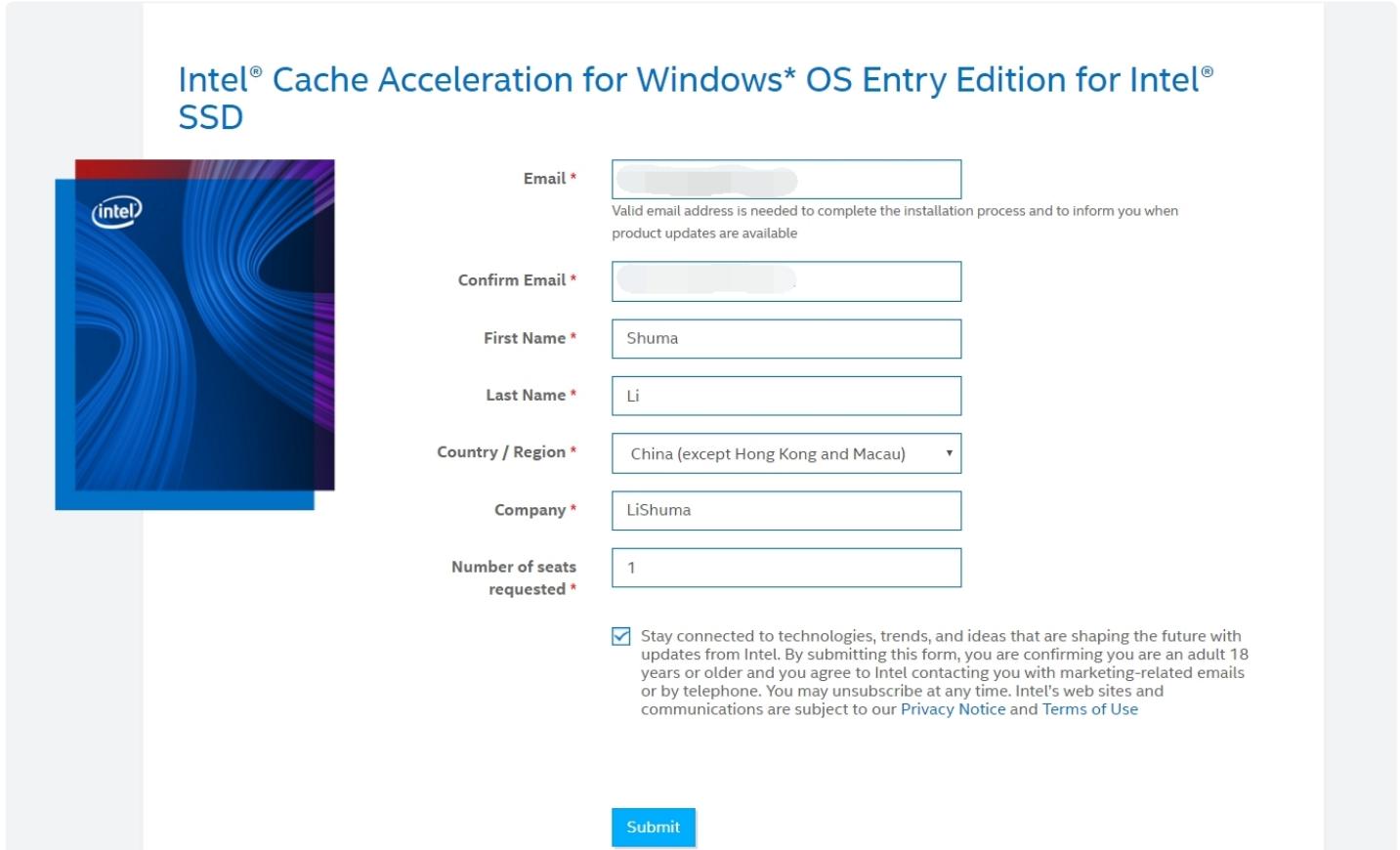
Number of seats requested *

Stay connected to technologies, trends, and ideas that are shaping the future with updates from Intel. By submitting this form, you are confirming you are an adult 18 years or older and you agree to Intel contacting you with marketing-related emails or by telephone. You may unsubscribe at any time. Intel's web sites and communications are subject to our [Privacy Notice](#) and [Terms of Use](#)

Submit

(https://lishuma.com/wp-content/uploads/2018/04/搜狗截图18年04月19日1017_1.png)

按要求一路填好，然后确认即可

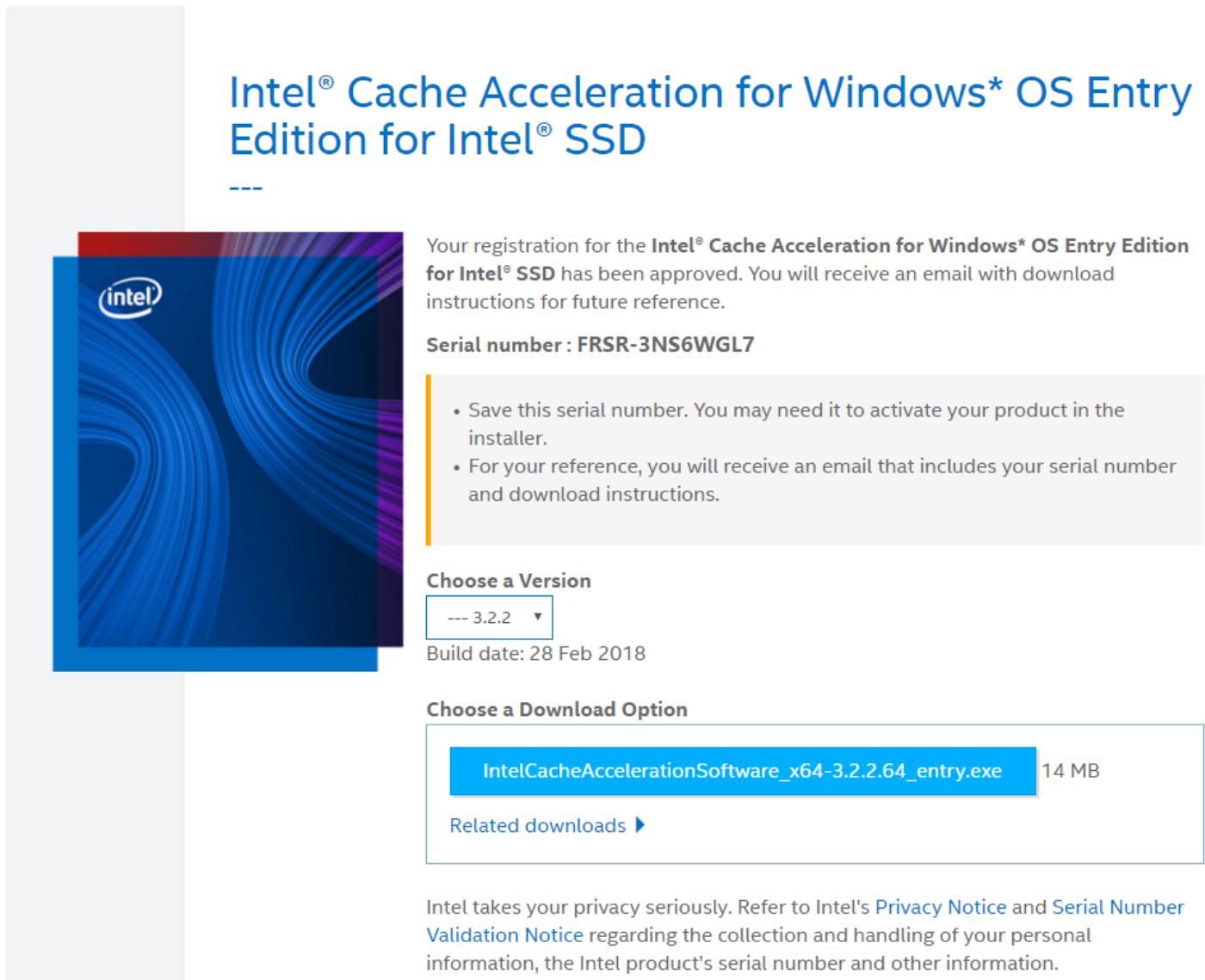


The screenshot shows a registration form for Intel's Cache Acceleration software. On the left is a large image of an Intel SSD. The form fields are as follows:

- Email *: [redacted] (Placeholder)
- Valid email address is needed to complete the installation process and to inform you when product updates are available.
- Confirm Email *: [redacted]
- First Name *: Shuma
- Last Name *: Li
- Country / Region *: China (except Hong Kong and Macau) ▾
- Company *: LiShuma
- Number of seats requested *: 1
- Stay connected to technologies, trends, and ideas that are shaping the future with updates from Intel. By submitting this form, you are confirming you are an adult 18 years or older and you agree to Intel contacting you with marketing-related emails or by telephone. You may unsubscribe at any time. Intel's web sites and communications are subject to our Privacy Notice and Terms of Use
- Submit button

(<https://lishuma.com/wp-content/uploads/2018/04/注册信息.jpg>)

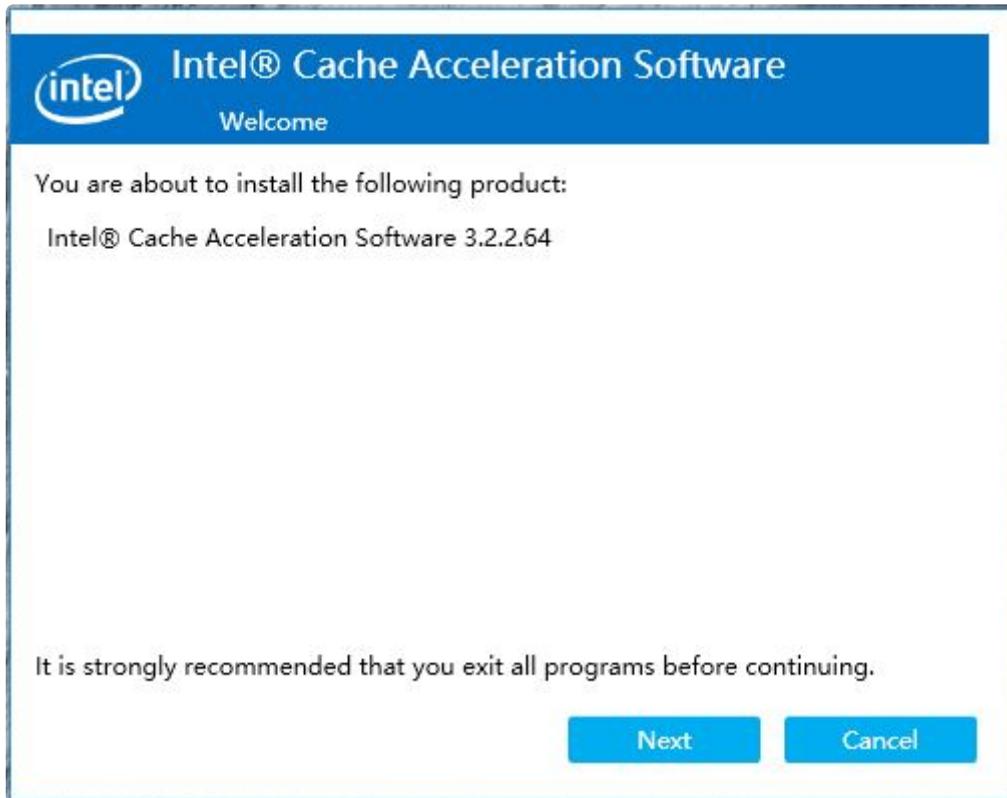
最后会来到这个界面，页面会显示一个序列号，不过这个没啥用，直接点击蓝色按钮就能下载了。由于牙膏厂官网的速度问题，下载按钮部分可能会遇到是转圈图标，等一会即可。



The screenshot shows the registration page for the Intel Cache Acceleration software. At the top, it says "Your registration for the Intel® Cache Acceleration for Windows* OS Entry Edition for Intel® SSD has been approved. You will receive an email with download instructions for future reference." Below this, the serial number "FRSR-3NS6WGL7" is displayed. A callout box contains instructions: "Save this serial number. You may need it to activate your product in the installer." and "For your reference, you will receive an email that includes your serial number and download instructions." Further down, there's a "Choose a Version" dropdown set to "3.2.2" and a note that the build date is "28 Feb 2018". The "Choose a Download Option" section shows a blue button for the file "IntelCacheAccelerationSoftware_x64-3.2.2.64_entry.exe" which is 14 MB in size. A link to "Related downloads" is also present. At the bottom, a privacy notice states: "Intel takes your privacy seriously. Refer to Intel's Privacy Notice and Serial Number Validation Notice regarding the collection and handling of your personal information, the Intel product's serial number and other information."

(https://lishuma.com/wp-content/uploads/2018/04/搜狗截图18年04月19日1022_3.png)

安装部分就不赘述了，一路 Next 即可。



(<https://lishuma.com/wp-content/uploads/2018/04/安装01.jpg>)

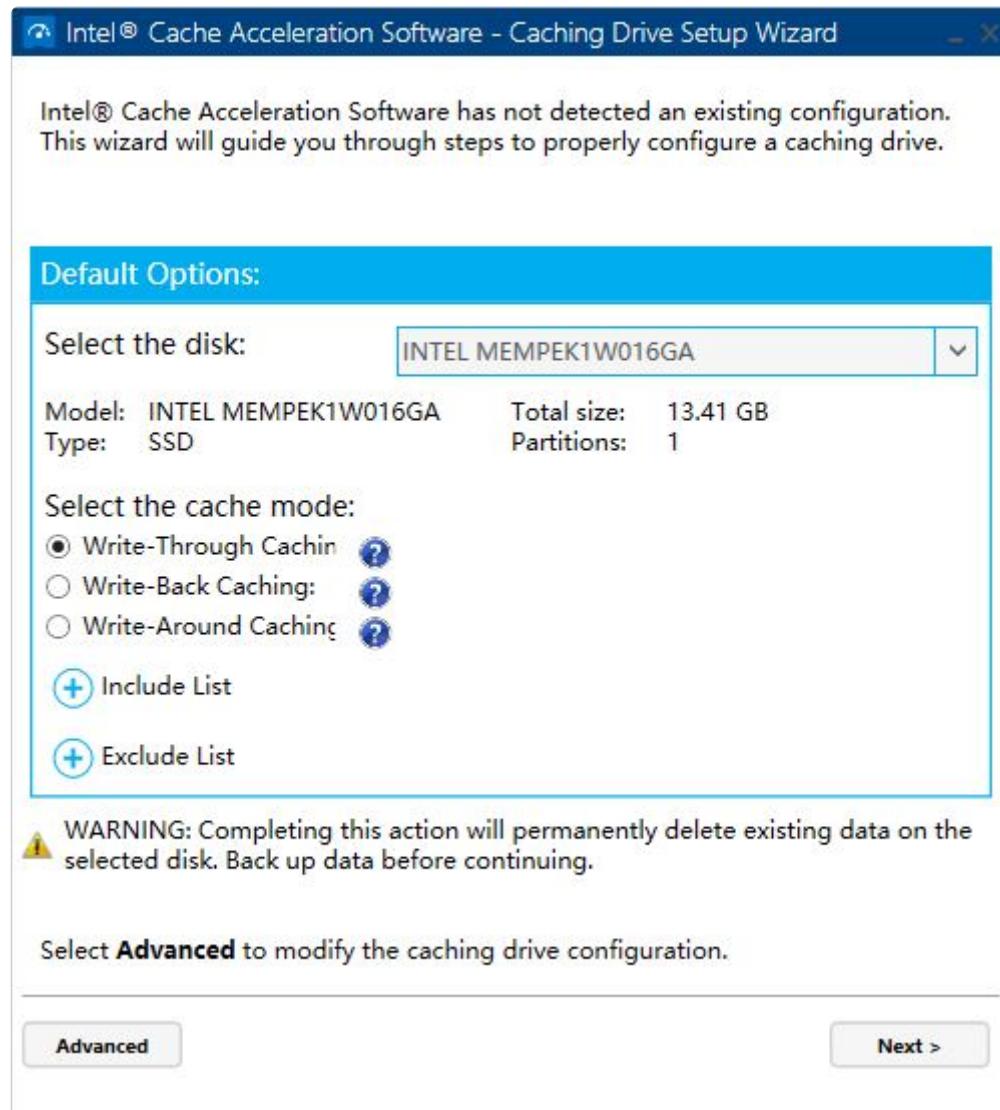
装好后软件会自动运行，硬盘会自动选择上傲腾。然后下面有三种加速模式可以选，从上到下分别为直写模式，回写模式和只读模式。

三种模式可根据自己使用情况选择，区别如下，实在不知道的话就保持默认的直写模式。

直写模式：写入时，数据在硬盘和傲腾缓存中都写入一份。读取时，如果是已经存在于缓存中的数据，则直接调用；如果缓存中没有，则从硬盘读取到缓存中，再调用。这个模式只加速读取，适合以读取为主的场景。

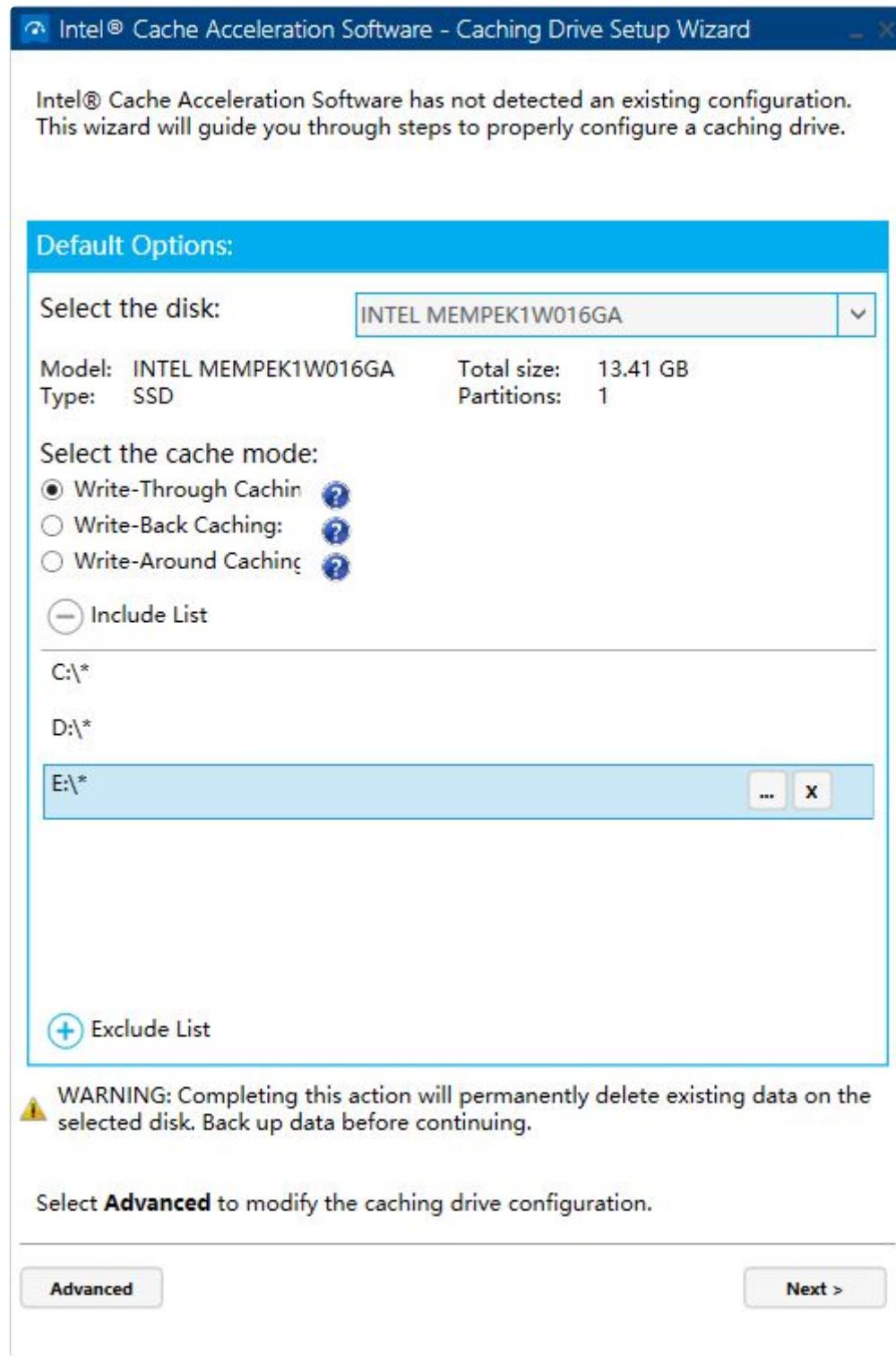
回写模式：简单来说就是数据先写入傲腾缓存中，大小达到设定阈值后再写入速度较慢的硬盘中，缺点是遇到意外断电可能会丢失数据。此模式可以同时加速读取和写入。

只读模式：只对读取进行缓存，写入都直接走硬盘，读取流程和直写模式一样。



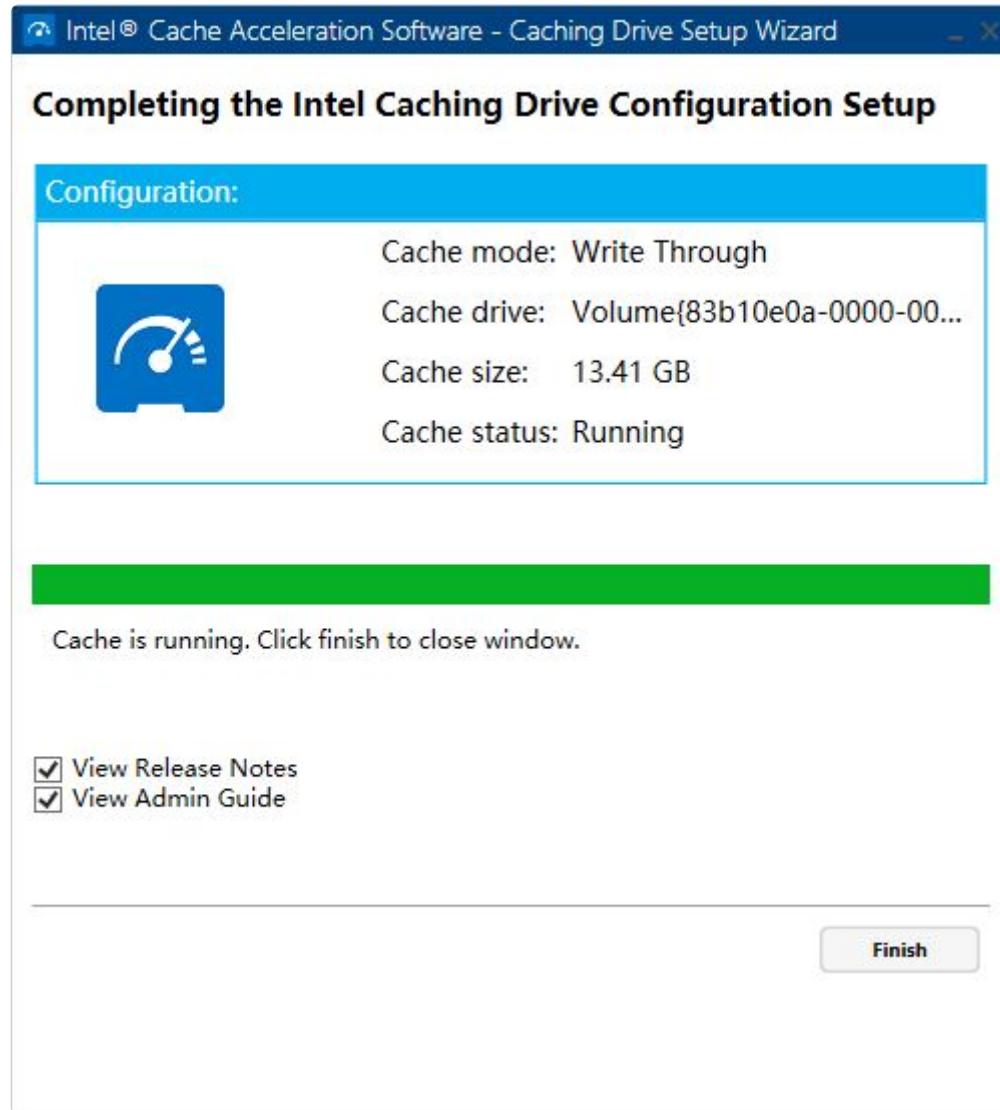
(<https://lishuma.com/wp-content/uploads/2018/04/ica01.jpg>)

include list 是白名单，也就是要加速的盘符，可以自由添加。



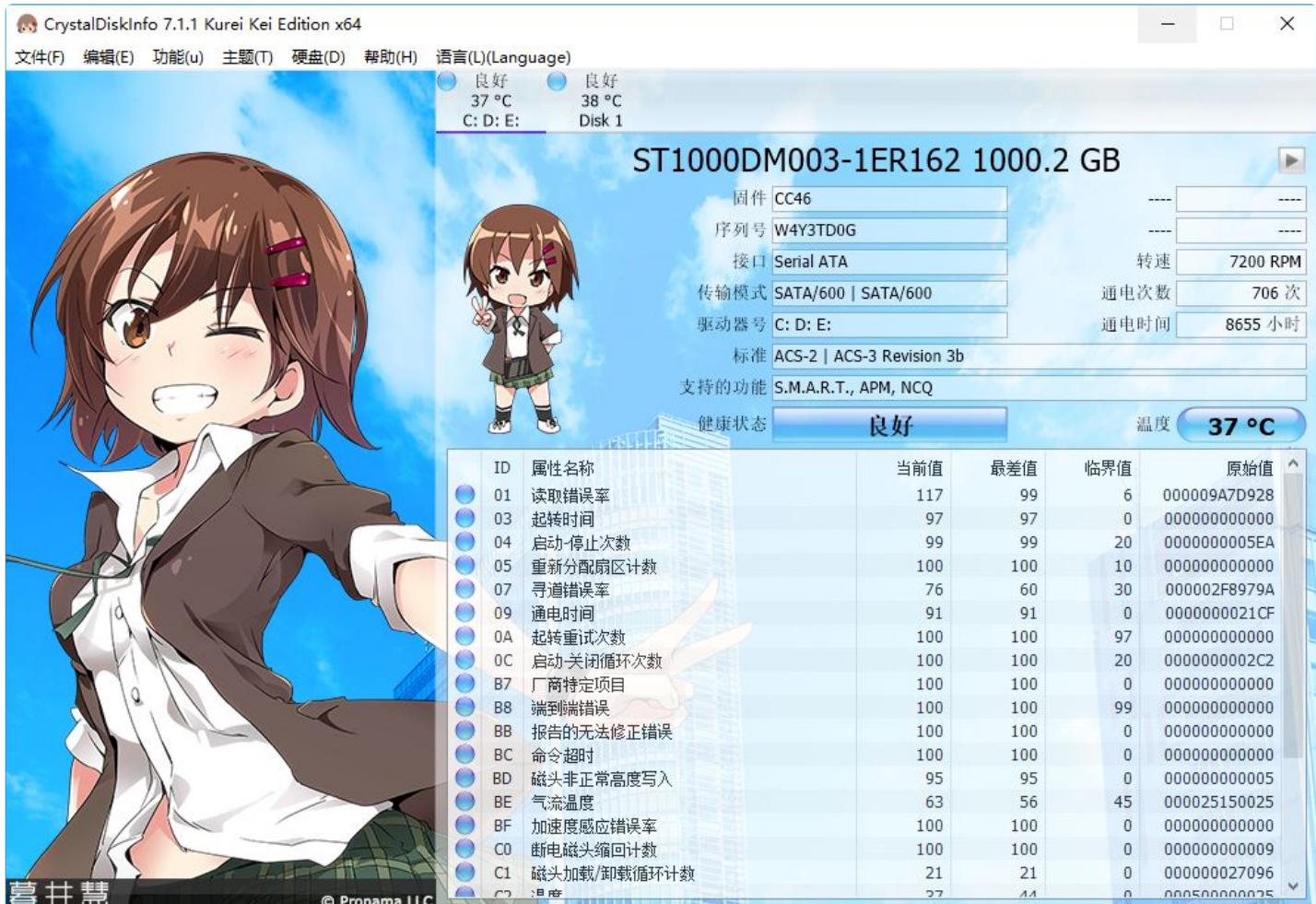
(<https://lishuma.com/wp-content/uploads/2018/04/ica02.jpg>)

然后下一步即可，等进度条走完，整个软件配置流程就结束了。软件会自动添加开机启动服务，后续就不用再管了，另外不同加速模式也可以直接热切换。



(<https://lishuma.com/wp-content/uploads/2018/04/ica04.jpg>)

测试硬盘为一块老希捷 1T，已服役多年



(<https://lishuma.com/wp-content/uploads/2018/04/HDD信息.jpg>)

加速后跑分测试对比



(<https://lishuma.com/wp-content/uploads/2018/04/测速对比.jpg>)

从左到右依次为 HDD 未加速/开启直写模式/开启回写模式，可以看到 4K 分数提升明显。

本文到此结束，具体加速后能提升多少可以参考原文链接。

所谓生命在于折腾，老爷机玩玩这类也挺有意思的。

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