

# The silent contributions of Linux to human life

This open-source operating system is used on familiar devices like smartphones and tablets to complex systems such as traffic regulation.

Linux is a computer operating system and is also the kernel name of the operating system. It is probably one of the most famous examples of the concept of free software and of open source development. Since its launch in 1994, this platform has played an extremely important role in promoting the open source revolution in the technology world, giving more development rights to startups and startups. born new industries and at the same time opened a booming chapter of a wide range of technology-changing equipment and products in the world.



Jim Zemlin, CEO of the Linux Foundation, said many people use Linux in their daily work without knowing its existence. "The world without Linux will become a very different place: Homogeneous and unattractive. Even if it is true, you still have to use Windows CE operating system on discarded phones." . So how is Linux really contributing to human life? Here are 25 best things (and quite surprisingly) that Linux is quietly "devoting" in many areas of life, inviting you to learn.

1. 28 interesting facts about Linux

## 1. Super computer



1. Used since the 1990s, nearly 30-year-old 'supercomputers' are still running 'ferry ferries' and play an important role in many countries.

When it comes to the great technological achievements of mankind, or 'wonders' in the technology world, we probably can't ignore supercomputers. Super bulky, expensive, and extremely high operating costs, but the tremendous power to handle thousands of billions of calculations per second has made supercomputers an integral part of many areas of life. living. So what is the role of Linux here? Yes, up to 497/500 of the world's most powerful supercomputers are running on Linux platforms.

## 2. NASA



1. NASA's Internet speed rumor reaches 91 Gb / s, is it true to download movies in 1 second?

NASA, the world's leading aerospace agency, opted to use Linux for almost all of its state-of-the-art computer systems is the clearest proof of its versatility and adaptability. this platform.

From collecting and storing data sent from satellites as well as telescopes, to 'unlocking' and processing that data for the purpose of serving projects and intensive research projects. about space science, all done with great support from Linux.

More information to you: NASA spacecraft jet engine lab also uses Linux to, cite data, facilitate projects involving the deployment of unmanned drones into Space and deep space exploration with extreme accuracy.

### 3. Space robot



1. Amazon uses robots that are 5 times more productive than humans in warehouses

Continuing with the aviation theme - the universe, did you know that the first humanoid robot - Robonaut 2 - was sent into space (and still serves on the ISS International Space Station, about 319.6 km from the Ground. ) - Which operating system works? Yes, it's Linux.

The experience of NASA with Robonaut 2 on the International Space Station plays an extremely important role, cosmologists have a better overview of the robot's ability in space missions, as well as prospects. of the plan to bring robots to work on the space station to replace people in the future.

The bad news: NASA has no plan to bring Robonaut 2 'hero' back to earth, maybe we will be hard to see the first Linux robot fly into this space again.

### 4. Gaming controller (Games Console)



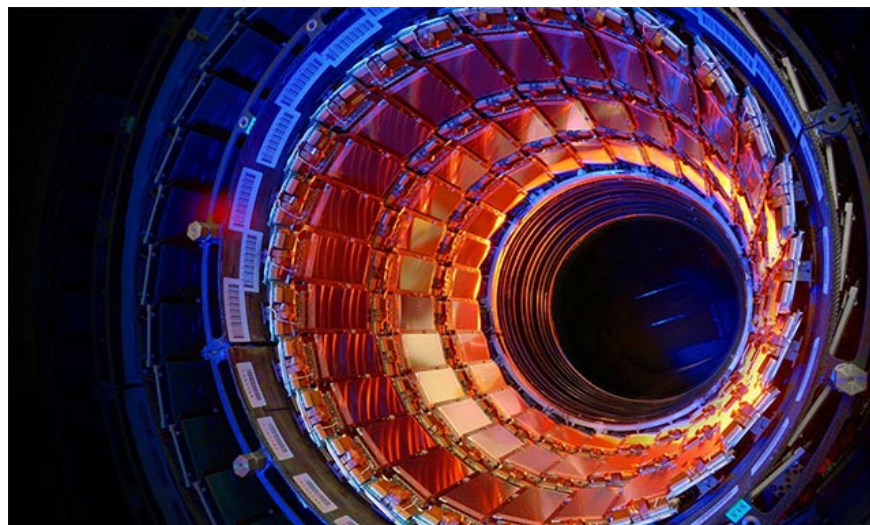
Linux is one of the cornerstones of the global gaming industry. This sounds like a bit too much, but in fact it's not unreasonable at all. SteamOS and Steam Machines are owning top revenue in the game world, and they are built based on the Linux kernel (specifically Debian Linux).

The 'veteran' gamers probably haven't forgotten some of the Linux-based handheld gaming devices such as Pandora and Neo Geo X. These products, although not very successful, are still a long-time desire. generations.

Trivia: Sony has released a package of Linux versions for Playstation 2, which can turn this device into a Linux desktop suitable for many different uses.

As for mobile games, I have to say a lot more. Android is the dominant platform in the mobile gaming market, and the operating system is also built on the Linux kernel.

## **5. Large Hadron Collider**



The Large Hadron Collider is the world's most modern particle accelerator, while providing the most powerful acceleration today. The Large Hadron Collider is designed to create a direct collision between proton rays (one of the fundamental particles) with great kinetic energy. Its main purpose is to break the limits and defaults of the standard model - the current basic theories of particle physics.

It is not exaggerating to say that the Large Hadron Collider is one of the most important scientific rescue equipment in the world, and it is also very expensive - worth \$ 10 billion. And above all, this machine is operating on Linux. Large Hadron Collider uses Linux to analyze, process, store and distribute petabytes (equivalent to 1 billion gigabytes) of data that it accumulates during operation.

## 6. Roku



### 1. Compare Chromecast Ultra, Apple TV 4K, Roku Ultra and Amazon Fire 4K

Defeating both the Google Chromecast monument and FireTV's Amazon, Roku is the king in the world of multimedia streaming devices as the most commonly used device in the United States.

All Roku hardware devices are integrated and operate based on a customized, heavily modified Linux version called 'Roku OS'.

More information to you: Both Chromecast and FireTV operate on platforms developed from Linux. Seeing this operating system has once again become the dominant name in the array of multimedia streaming device operating systems.

## 7. TiVo



The personal digital video recorders (commonly known as 'DVRs') are increasingly being used in the world. In particular, TiVo is said to be the best selling DVR model in the world, and this device owns an embedded

operating system based on Linux.

This operating system helps TiVo handle the recording, playback and management of your favorite videos, movies and TV shows. Also, allows you to run desired TV applications.

## 8. Smart TV



1. Huawei will launch the first 8K 5G TV later this year?

Linux not only provides power for many set-top boxes, but is also widely used in smartTV products. Some of the leading TV manufacturers are now offering users an integrated smart TV experience by using Linux-based operating systems.

From LG (with WebOS), Samsung (Tizen and Orsay OS) to Sharp, HiSense, Philips and Panasonic (all use FirefoxOS). The above operating systems have different names, but they all originate from Linux!

## 9. Smart watch



1. 5 phone models that combine the smart watch best for Apple and Android users

Many of us will think that Apple is the only smart watch manufacturer that owns devices running on embedded operating systems, but that is not the case.

Back in the past a bit, in 2000, IBM introduced a smartwatch running Linux. About 16 years since that 'milestone', we now own real smartwatches. These include the Tizen-based Samsung Gear and dozens of Android Wear devices that dominate the market, and everything that runs on the operating system developed from Linux.

## 10. Amazon Kindle book reader



### 1. Learn about Kindle Paperwhite book reader

With its popularity and market dominance for many years, Kindle has become almost a generic term for digital e-book readers, but few think much of the system. Embedded operator that this device is running, Yes, again Linux! Many hackers have even installed Ubuntu on many of the first generation Kindle devices to serve their 'malicious' purposes.

The first version of the Kindle OS was built on Linux kernel v2.6.26, while the most recent version, the Kindle Oasis, uses kernel v3.0.35.

## 11. Instagram (and basically the entire Internet world)



## 1. 'Twitter, Facebook and Instagram are dangerous diseases spreading worldwide'

In their free time, many people often go to Instagram and scroll through photos of 'selfie', food, or crazy promotions on this social networking site. But perhaps very few of us actually ask any question to help bring that wonderful experience.

With more than 1 billion downloads and settings on Android, a powerful power supply is required to enable this application to process data generated from millions of images, videos, comments, and accounts every day. Smoothly to ensure the best user experience. And once again Linux is the name that assumes this heavy 'responsibility'.

Linux is the base platform that provides power to Instagram. Also not only Instagram, but a host of other major social networks are also built on Linux.

And not only in the social networking industry, many other market-leading businesses like Airbnb, Uber and Netflix also choose linux as the base platform to build embedded operating system products for their devices.

## 12. Car entertainment system



Many cars of all segments from budget to luxury, from many different manufacturers use Linux as the operating platform for integrated entertainment systems, or build car-based operating systems. Linux kernel.

### 13. Entertainment system during flights



Yes, it's not just about appearing in a car, Linux is also the preferred choice of programmers for in-flight entertainment systems. All aircraft of the famous airline Delta Air Lines use entertainment systems based on the Linux kernel.

The next time you have to sit for hours in 'giant metal pipes' hovering in the sky over thousands of kilometers, pay more attention to the screen in front of you, most likely working. based on the world's largest open source system: Linux.

### 14. Digital signage



From roadside advertising screens to terminals located at piers, garages, Linux is used around the world, in many public devices, to the extent that it is hard to list. OK!

## 15. Self-propelled cars



1. Is humanity on the right track in developing self-propelled vehicle technology?

Many of the computer systems used on the world's most popular self-propelled vehicles now run Linux, including Waymo (Google), General Motors (GM), or Volkswagen models.

## 16. Smart electric motorcycle



1. Ignoring the hype about environmental protection, electric cars still bring a lot of practical benefits

Mavizen TTX02 is not only the first electric racing car to appear in the world, it is also the first smart electric motorcycle to operate on Linux. Rather, the computer system used on Mavizen TTX02 also works with Linux. This car has both USB port and Wi-Fi connection to allow the system to respond in real time, manually adjust and monitor many other smart driving modes.

## 17. Smart refrigerator



ChillHub is a popular Ubuntu refrigerator that is popular in the United States. However, it is not the only chiller in the kitchen that is related to Linux. Most of Electrolux's smart refrigerators released in early 2010 all use Linux as the operating system for the internal computer system.

## 18. Washing machine



Besides refrigerators, washing machines are also a household appliance often equipped with Linux-based platforms. Modern models of modern washing machines often have many smart features, from automatically adjusting the amount of water needed to meet the load of washing, until the remote synchronization operation . All these features are Controlled by a computer system and, of course, this system runs Linux.

You may not know: Samsung is a leading manufacturer of Linux applications on smart washer products.

## 19. Advanced air traffic control system



The US Federal Aviation Administration has moved to use Linux in 2006. The agency is currently running custom built software to manage and display air traffic, and the software runs on Linux. In addition, air traffic control systems at many major airports around the world are also using development software systems from the Linux kernel.

## **20. Chromebook**



### **1. Should you buy a Chromebook or tablet?**

A lot of people think that Chromebooks run Android OS, if you have similar thoughts, you're wrong. In fact, Chromebook models use Chrome OS - the operating system is based on a Linux distribution called Gentoo (but has been fixed quite a lot).

## **21. Japanese high-speed train (Shinkansen)**

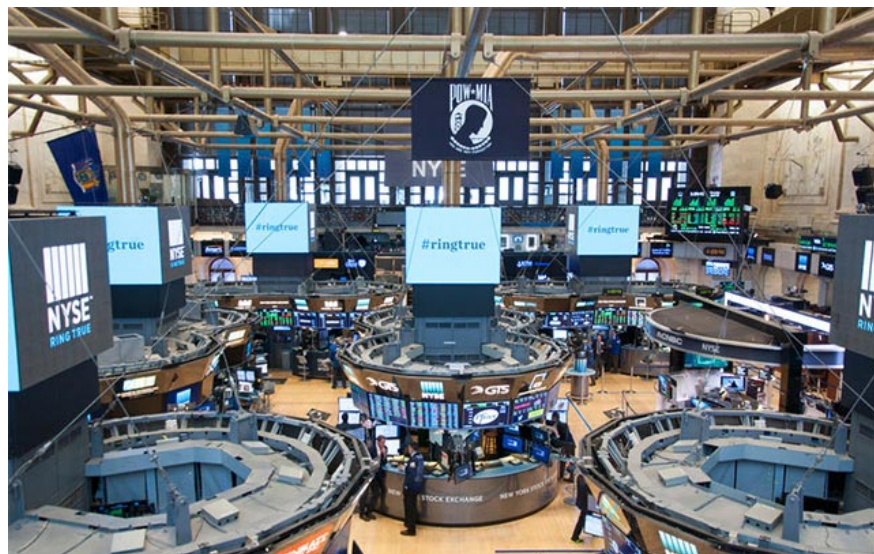


You may not be familiar with the world-famous Shinkansen super speed trains of the Sun, but do you know that these 'silver bullets' work with Linux?

Shinkansen can easily reach an average speed of 240km / h to 320km / h, and to keep things running smoothly people use a centralized traffic control system to keep all operations of ships - every task related to moving, tracking, station, schedule, etc. - is networked and computerized. So what does this system run on? That's right, Linux!

In addition, all stations in Japan use the Linux operating system to manage super speed trains in and out.

## 22. New York Stock Exchange



The world financial exchanges have long been a 'fan' of Linux open source software thanks to the ability to perform, manage transactions and analyze calculations, quotes, and messages with fast speed. Lightning of this platform. The system transition to Linux in 2007 helped the New York Stock Exchange reduce costs and increase flexibility in operating systems.

## 23. Pentagon - United States Department of Defense



The US Department of Defense is Red Hat Linux's largest customer. If you don't know, Red Hat is a software company that provides open source software products for the business community as well as the government. More specifically, the group's main products are operating system platforms, middleware, applications, product management and support, training, and consulting services.

Not only the United States but the military in many countries around the world are often extremely enthusiastic about using open source software. These sections are an important part of the integrated network architecture, connectivity and enabling the command system - control of more efficient operation.

## 24. Nuclear submarine



Many naval submarines in the US Navy have owned a Linux-based control system.

Back in 2004, heavy industrial group Lockheed Martin handed over to the US government a model of nuclear submarines operating entirely thanks to a computer system running on the Linux platform (designed by Red Hat).

**And finally...**

## **25. Your computer**



1. The Korean government is going to use the Linux operating system instead of Windows because of the expensive cost

You read an article about Linux, written on Linux, stored on Linux, and you can absolutely experience Linux on your own computer.

While not owning market share in the desktop segment as much as Windows, Linux is an open source system, so there will be a lot of things to explore. Try it out and Linux won't disappoint you!

These are some of the silent contributions of Linux to human life. Have you ever used Linux? How do you think about this platform? Please leave a comment below!

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