

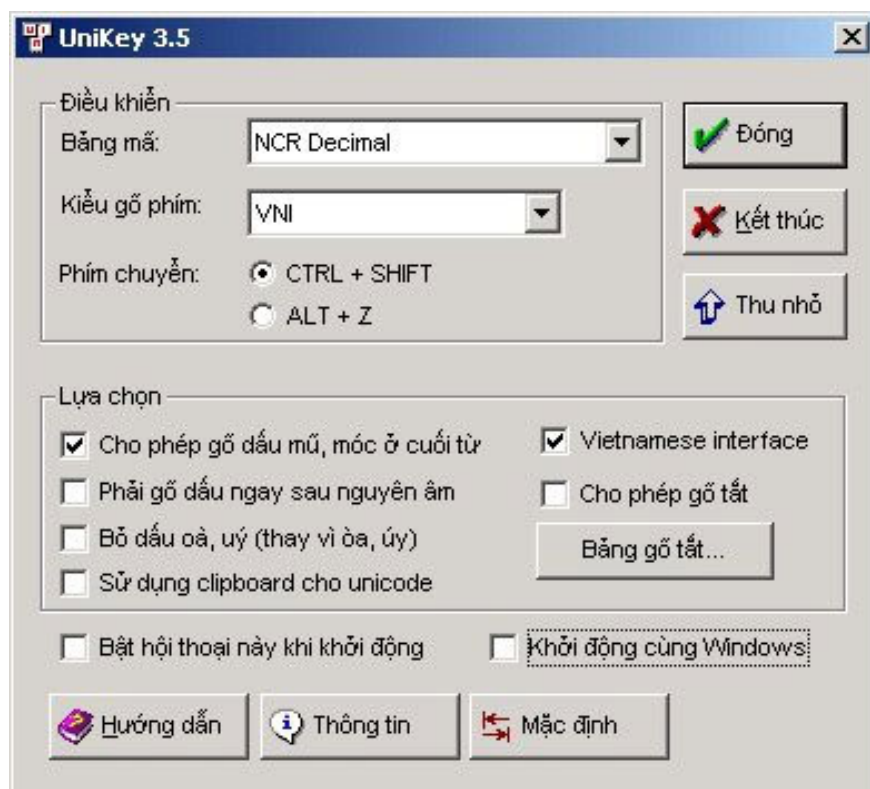
# The pioneering software of Vietnamese technology industry

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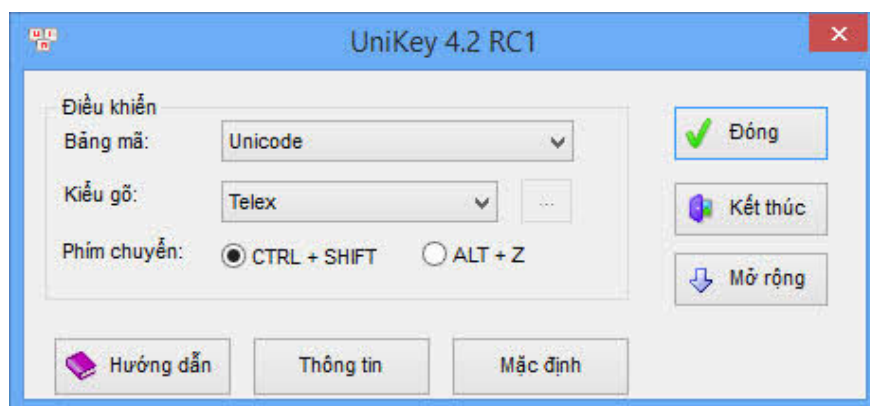
## Unikey: Free Vietnamese keyboard that supports Unicode

Unikey is the most popular open source Vietnamese percussion. Pregnancy since 1994, Unikey was made when author Pham Kim Long was a student at Hanoi University of Technology with a capacity of only 2 KB (a very small storage unit) and ran on DOS. Before Unikey was born, it was difficult to access Vietnamese keyboard percussion and often had to unlock from commercial Vietnamese keyboards. The interface of these keyboards is also not really intuitive and easy to use for general users. Once Unikey was born completely free and published open source, access to Vietnamese keyboards for Vietnamese Internet users in 2000 became easier than ever. Unikey became an indispensable application in software installation CDs sold at computer stores at that time. Internet rooms also install Unikey for their clients because of their ease of use, less system resources, and not too heavy to start the application. This is also one of the rare Vietnamese software that can be compatible with the latest Windows operating system lifelong versions on the same product version: Windows 9x / ME, Windows NT / 2000 / XP and Windows Vista, Windows 7 or Windows 8.



Unikey interface the early days.

Currently, more than 20 years have passed since the early days of pregnancy, Unikey is still showing his strong vitality when becoming an indispensable software on Vietnamese computers until now. To date, Unikey continues to be provided free to users as spirit from the first days of the product. Taking care of Unikey is always maintained silently by the author to serve Vietnamese Internet users though this is not a commercial product. In January 1.2014, Unikey 4.2 RC1 version was officially released to users, supporting Win 8 and 8.1.

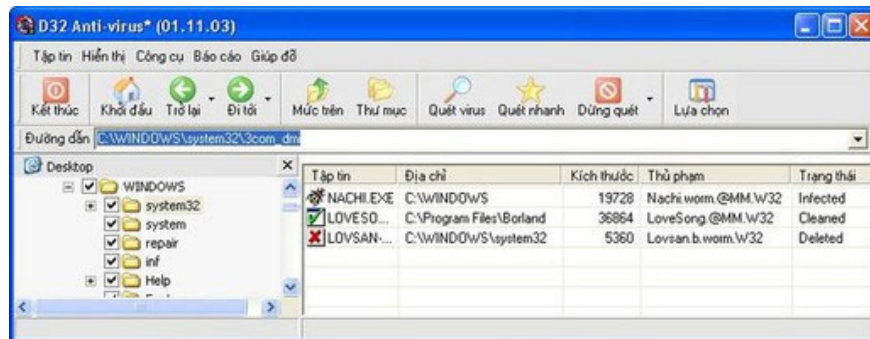


## D32: The first anti-virus program on Windows

D32 is a computer diagnostic and antivirus program that runs on Vietnam's first 32-bit Windows operating system. The precursor to this software is D2 Antivirus running on the popular MS-DOS operating system since

the 1990s. D32 was officially released in February 2001, opening a new era for the country's security field.

In the early 1990s, Vietnamese users began to witness many waves of 'malignant' computer viruses, capable of sabotaging on-going files. This is completely different from 'benign' viruses for advertising purposes only in the previous period. The real anti-virus battle began to become difficult as current antivirus programs are not yet adapted to new variants of computer viruses. Truong Nhat Minh Quang - the father of D32, spent more than 4 months studying Assembly programming language (a popular programming language at the time) to launch the first test version with the name 'Dir2 / FAT' - The same name as the virus made quite a lot of anti-virus software at the time. After many versions of the most difficult-to-swallow viruses, D32 is more well-known as a free utility for users to protect their computers and data when they start accessing the Internet.



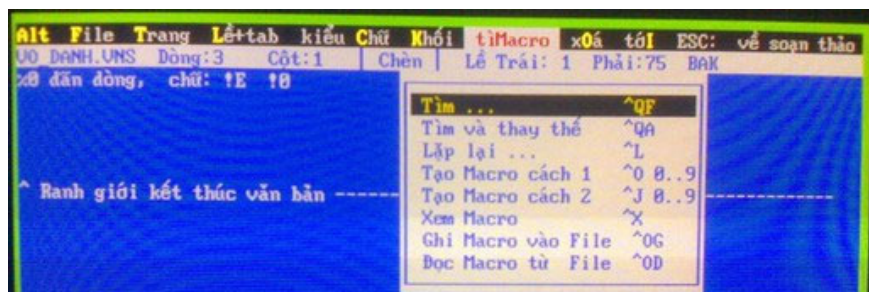
In 2000, when Microsoft officially removed MS-DOS from Windows, Truong Nhat Minh Quang continued to study and develop the Windows-based version. By 2004, D32 was updated with virus identification technology approach to machine learning - the latest technology at the time, starting the roadmap to deploy the results from the intelligent virus research topic. bring the foundation for Vietnam's security and virus research. D32 is favored by IT because of its ability to operate well and completely free when compared to competing products in Vietnam.



Currently, it is regrettable that D32 seems to be "hidden" because the author is still busy with the scientific research process so there is no more development condition before the appearance of millions of new viruses appear each day. However, D32 is still an important milestone for Vietnam's information security and security.

## BKED: The first text editing software

Bked is Vietnam's first text editing software on computers. BKED is quite compact, only about 200 KB in size, so users usually only need to store in a 1.4 MB floppy disk that can be carried for use anywhere.



With the development of information technology at the current stage, it is difficult to imagine the great meaning of BKED at that time. In the 1980s, when computers were just a few simple lines of code and foreign text editing software sold at high prices, the information storage was mainly done with typewriters. Even the meeting of state agencies must be extended for reasons of information storage. Every season, the Education Department staff struggled to print and transfer the exam to the Education Services. However, the introduction of BKED has helped solve all these problems. The exam is written in BKED, encrypted and sent to the Department for self-printing. Also since then, the exam model has been distributed to the Departments until now. Meetings of state agencies may also end before 5 pm with the minutes of the conference being printed clearly and quickly. Therefore, the BKED software gradually dominates and holds the position of the most popular Vietnamese text editing and processing software during the 90s. Schools also put BKED into the informatics curriculum. BKED is one of the three most popular computing concepts at that time besides PASCAL and DOS.

Referring to Bked, besides being known as Vietnam's first Vietnamese drafting software, people remember Bked as a foundation for the commercialization of computer products. Despite being sold at an unbelievably high price at that time - VND 1.5 million, Bked - the first commercialized computer product was still purchased by users, showing respect for software copyright in Vietnam. Male.

Bked had been winding for almost eight years from 1988 until 1995. Until Word and Windows began to become popular, the software was gradually "forgotten". However, the socio-economic effects that Bked contributed in his 8 years of appearance are undeniable.

In addition, there are also names like Vietkar, EVTran, English Study, . Among the above software, only Unikey is still widely used.

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