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From the history of the first computers

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Анотація

Розглянуто основні віхи історії розвитку комп'ютерної техніки, її створення і вдосконалення.

Ключові слова : *обчислювальна машина, комп'ютер, розробка.*

Abstract

Main milestones of development of the computer technology, its creation and increase were researched.

Keywords: *calculating machine, computer, development.*

Today everybody uses computer in everyday life. We accustom for our PC, phones and notepad. But can you imagine that 60 years ago people even do not know about such gadgets. You can ask when did the first computer appear. Give the answer is not so simple because there is not only one correct classification of computers and formulations that can be attributed to them.

The word "computer" was first documented in 1613 and meant a person who performs calculations. So what we can call "the first computer"?

In 1645 Pascal machine (Paskal wheel) was created for arithmetic calculation. This machine made possible to summarize the big numbers without any human intervention in mechanism. The reason for creating this machine was the observation of the young Pascal for his father, a tax collector who spent all his time in long calculations.

Others thinks that 1822 was the beginning of the era of computers. New machine for calculation trigonometric tables was invented by English mathematician Charles Babbage. He created the concept and started manufacturing machine, which is considered the first automatic device for calculation. It was able to calculate several sets of numbers and make a printout of the results. Unfortunately, Babbage could not complete its full version because of problems with financing. But the mathematician does not surrender, and in 1837 he introduced the first mechanical computer called an analytical machine. It was the first general-purpose computer. At the same time began his collaboration with Ada Lovelace. She translated and complements his work and made the first application for his invention.

Analytical machine consists of the following parts: the arithmetic logic unit, memory and unit for traffic control data. It was not completed during the life of a scientist. But Babbage designed scheme and helped other scientists who created the first computers.

Ironically, for a century computer hardly advanced in its development. In the years 1936-1938 the German scientist Konrad Zuse created Z1 - the first programmable electromechanical binary computer. Then, in 1936, Alan Turing built Turing machine.

It became the basis for the next theories about computers. The machine reproduces human actions, performed a list of logical instructions and printed the result of work on paper tape. Zuse and Turing devices

are the first computer in the modern sense, without which there would be no computers to which we are accustomed today.

The Second World War also affected the development of computers. In December 1943 the Tommy Flowers company introduced the secretive machine called "Colossus". It helped British agents to break German ciphers messages. It was the first fully electric programmable computer. The public found out about its existence only in the 70s. Since then computers have attracted the attention not only of scientists but also the ministries of Defense, which actively supported and financed their development.

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