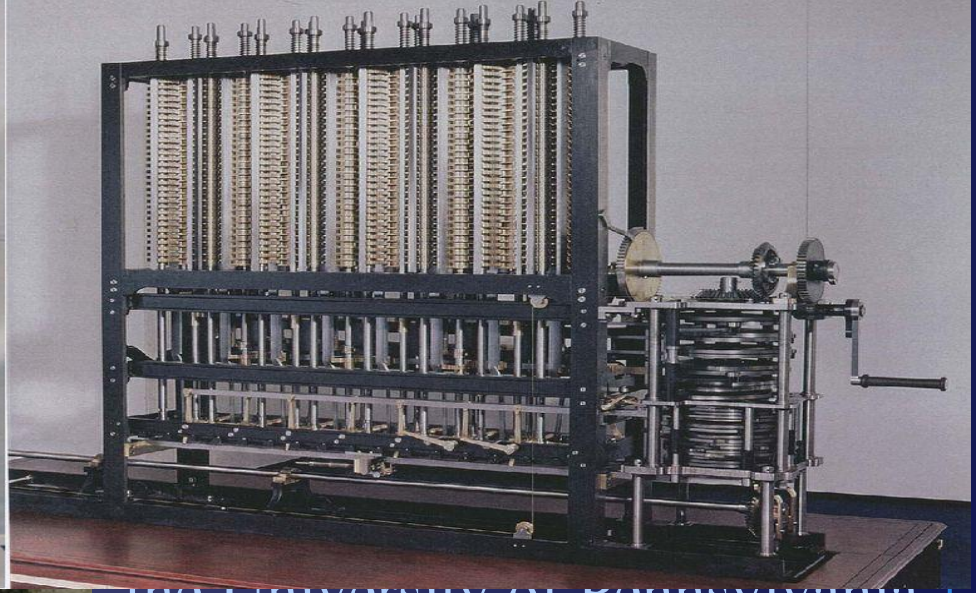
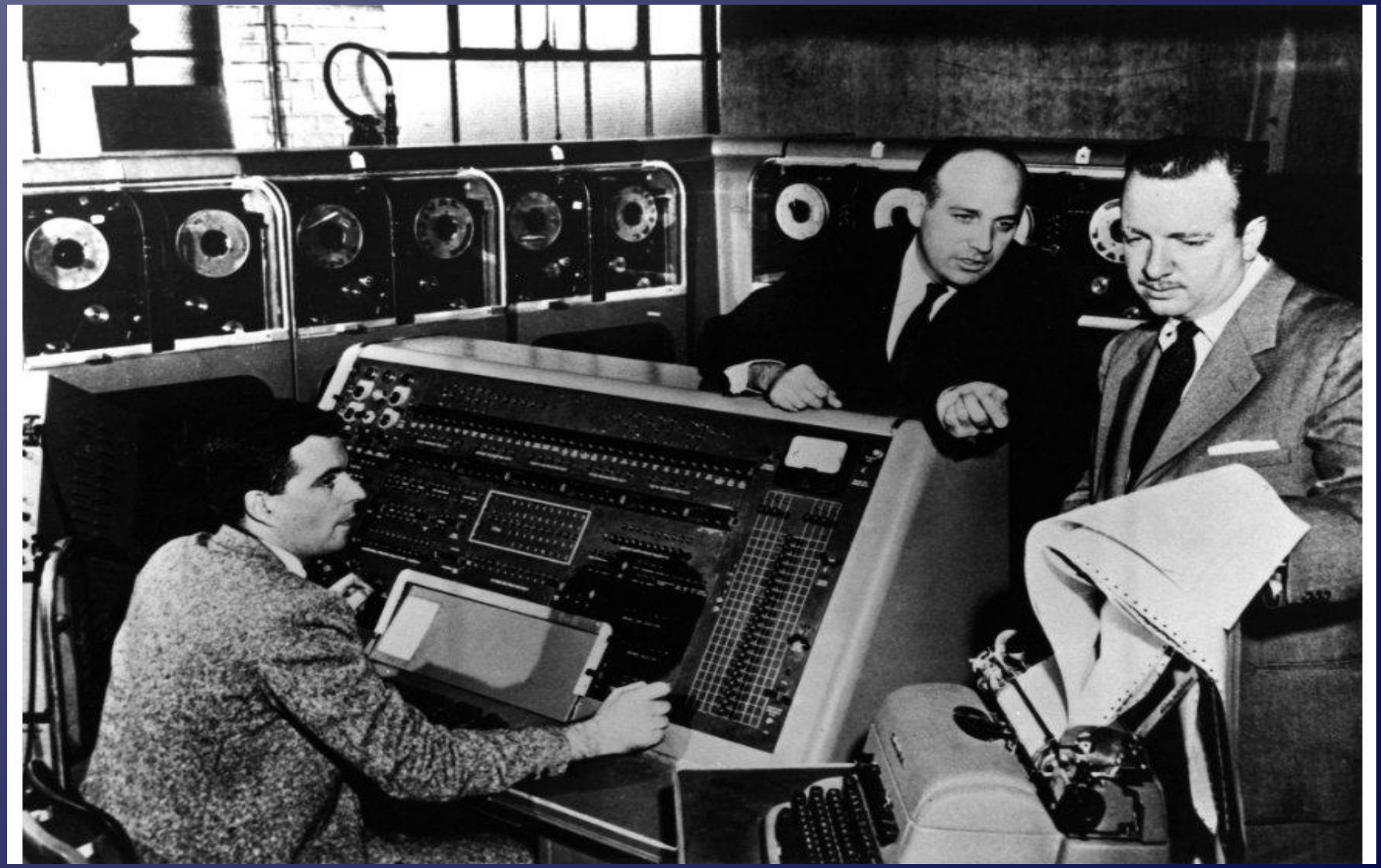
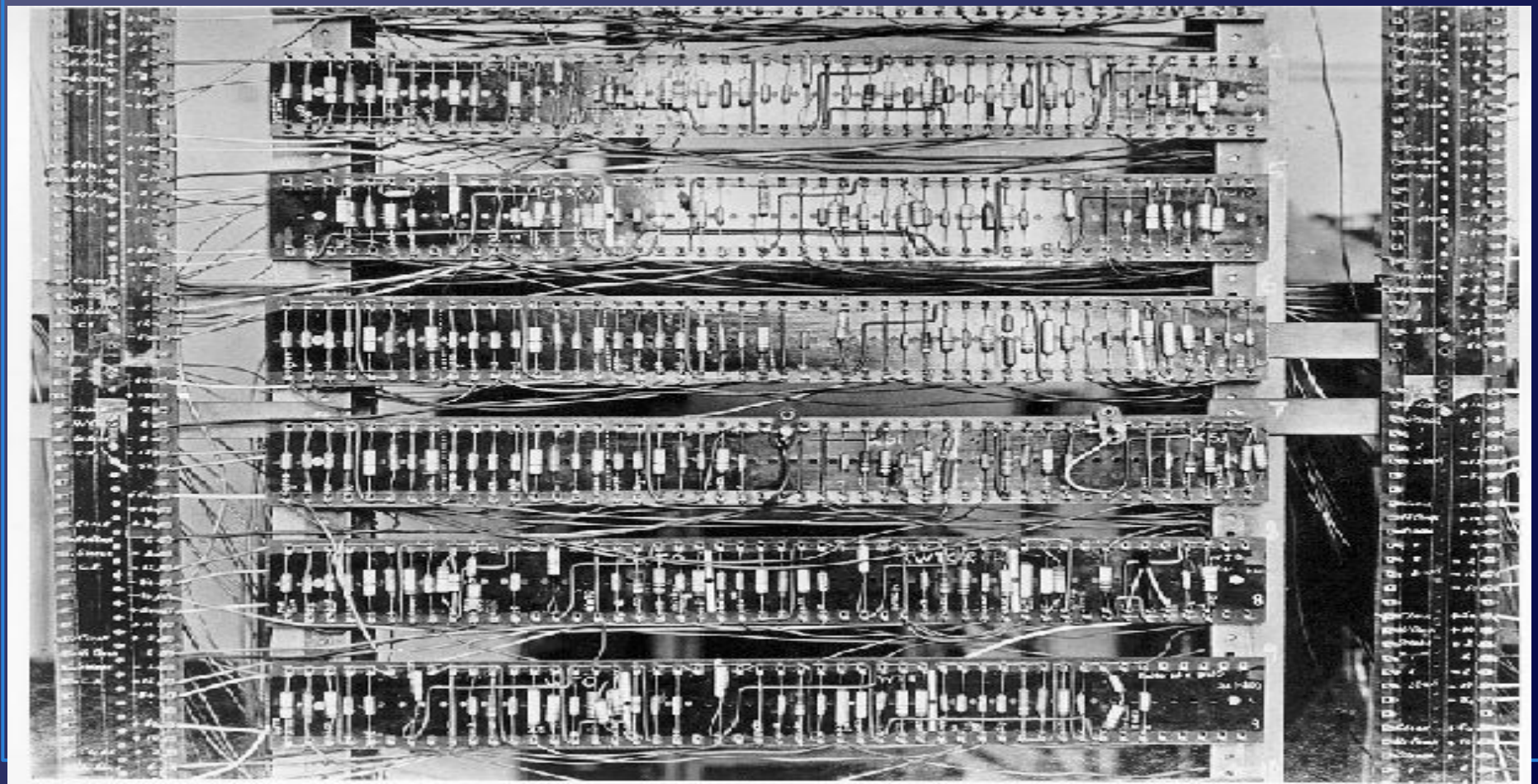
The History of Computer Development

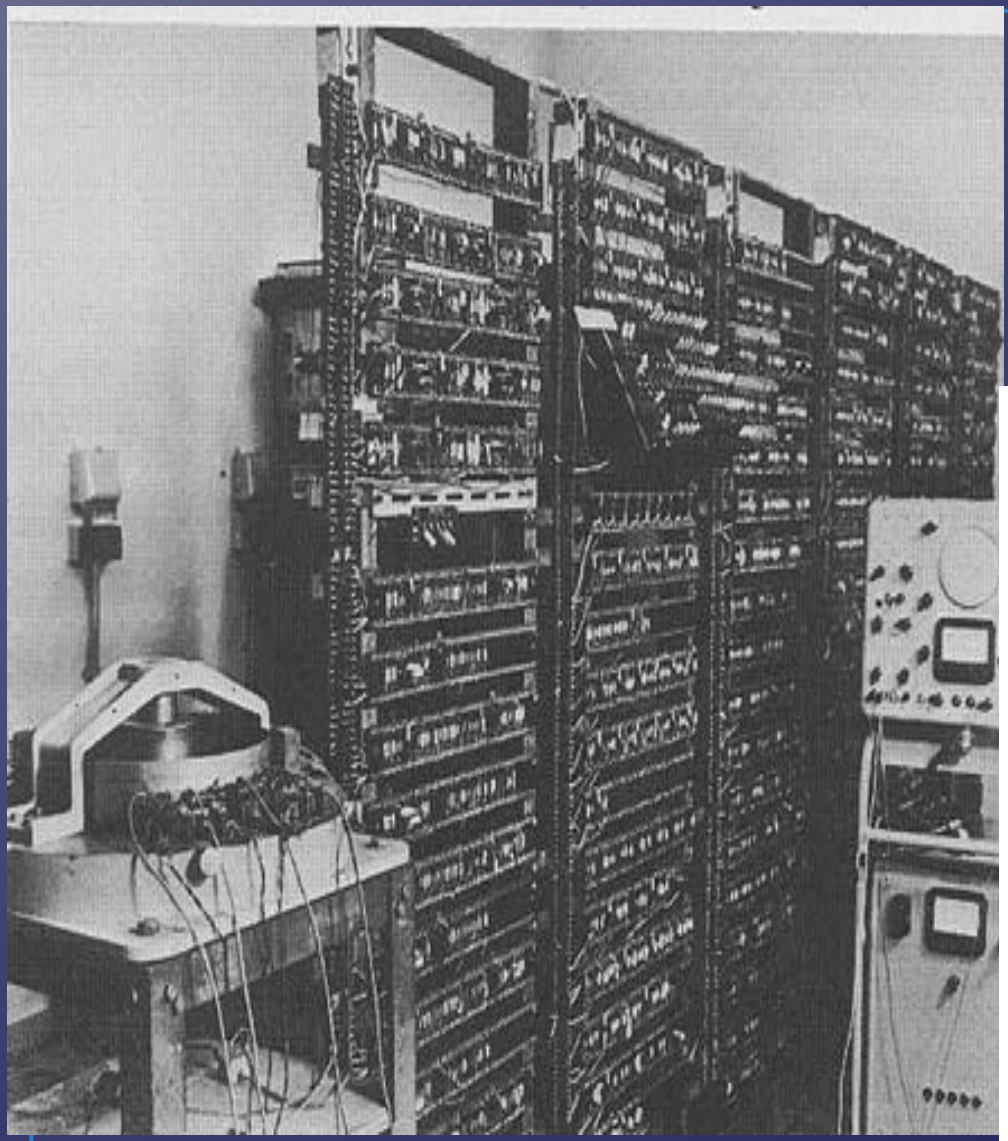


the University of Pennsylvania. It was Electronic Numerical Integrator And Computer or ENIAC, the device contained 18,000 vacuum tubes and had a speed of several hundred multiplications per minute. Its program was wired into the processor and had to be manually altered.



Later transistors appeared. The use of the transistor in computers began in the late 1950s. It marked the advent of smaller, faster elements than it was possible to create with the use of vacuum-tube machines. Because transistors use less power and have a much longer life, computers alone were improved a lot. They were called second-generation computers. Components became smaller and the system became less expensive to build.



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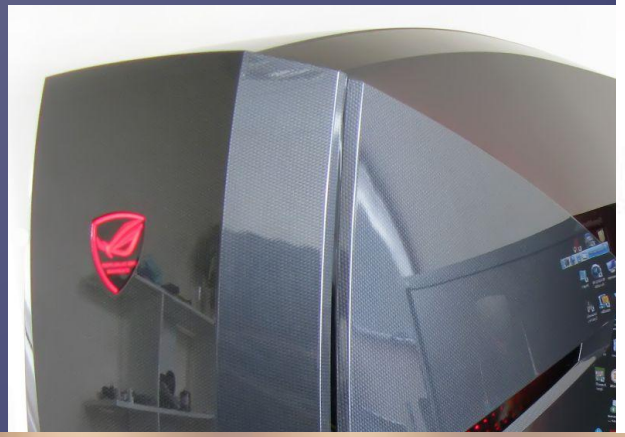
Modern digital computers are all conceptually similar, regardless of size and shape. Nevertheless, they can be divided into several categories on the basis of cost and performance.

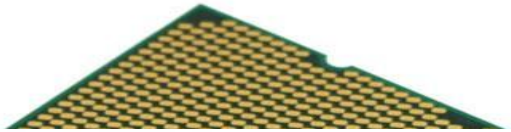



ASUS
SAMSUNG
ASUS

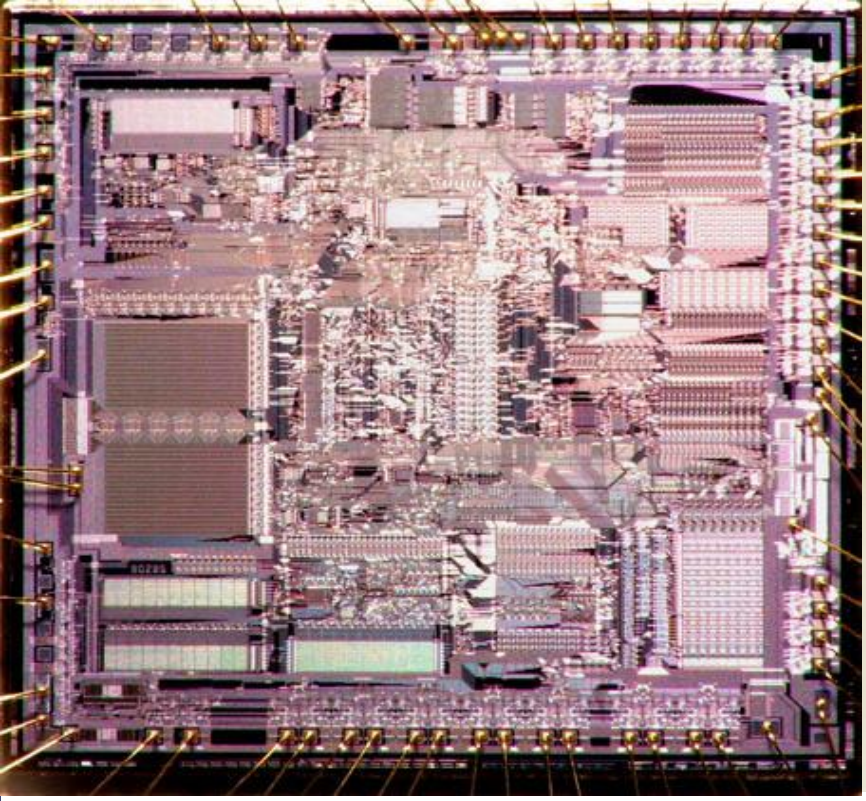
The first one is the personal computer or microcomputer, a relatively low-cost machine, usually of desk-top size. Sometimes they are called laptops. They are small enough to fit in a briefcase.

The second is th
microcomputer
graphics and
capabilities that r
useful for office
server computers, a large expensive machine with the capability of serving the needs of major business enterprises, government departments, scientific research establishments. The largest and fastest of these are called supercomputers.

A digital computer is not actually a single machine, in the sense that most people think of computers. Instead it is a system composed of five distinct elements: a central processing unit, input devices, memory storage devices, output devices and a communications network, called a «bus» that links all the elements of the system and connects the system itself to the external world.



Talking about a central processing unit or the heart of computer; I would like to add that there were several generations of microprocessors. The first generation was represented by processing unit Intel 8086.



Intel 80286


SIEMENS
SAB 80286-1-N
S2140988
AUSTRIA
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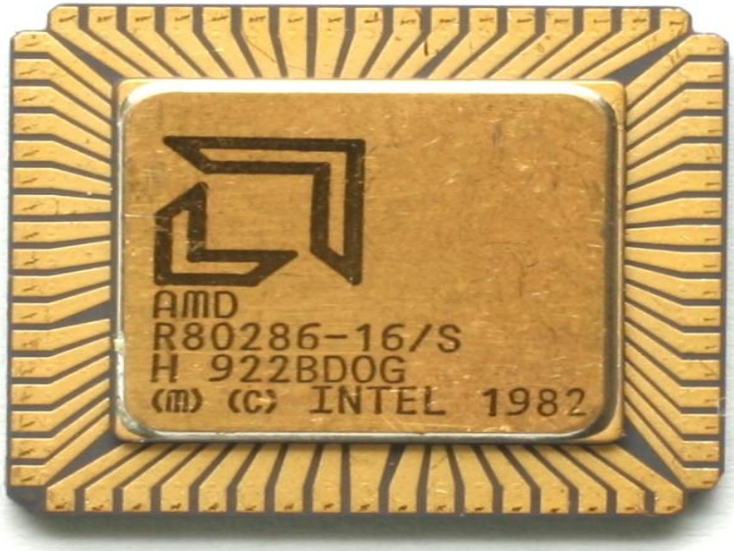
AMD
R80286-16/S
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intel
80286
N80286
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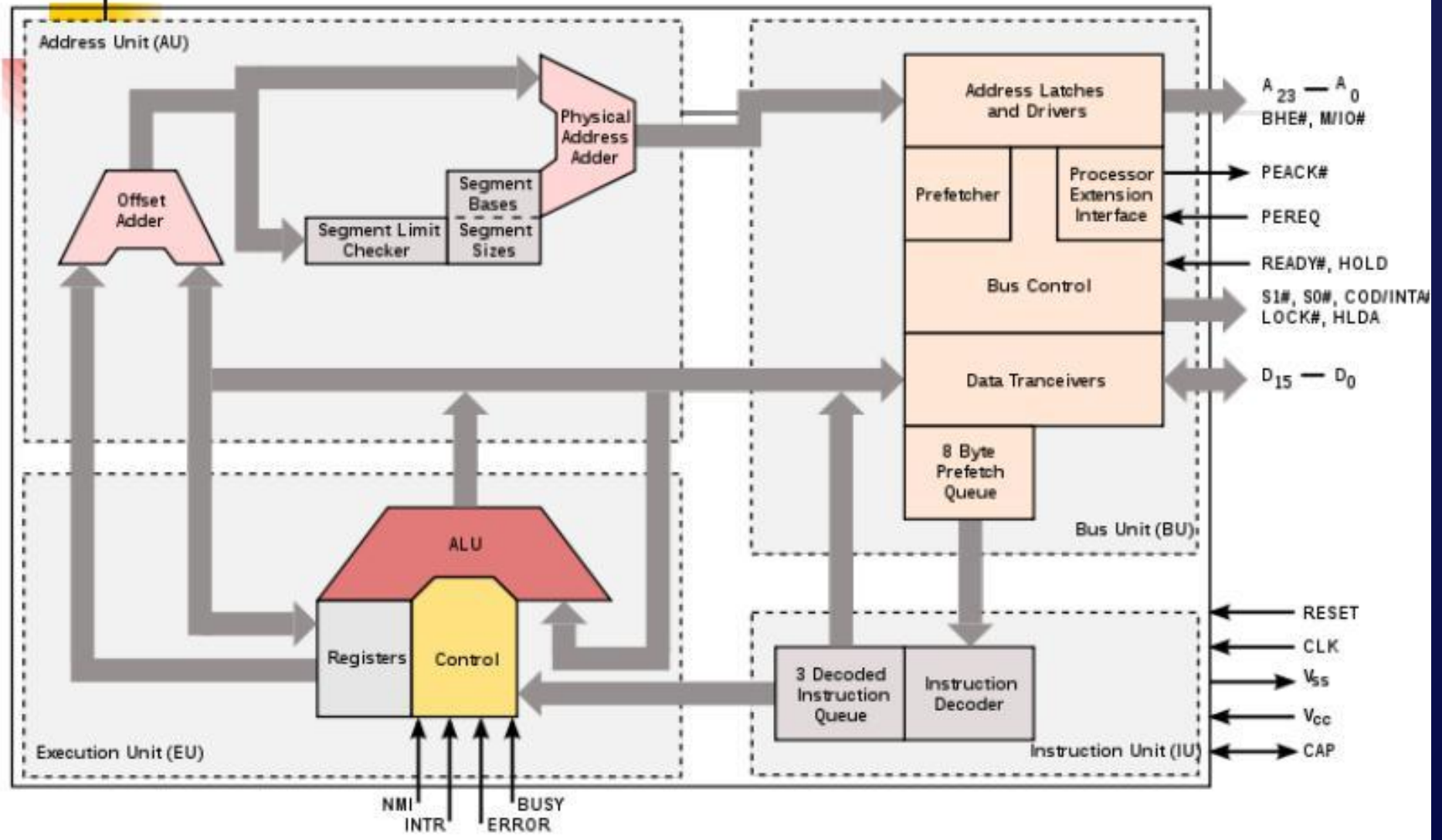
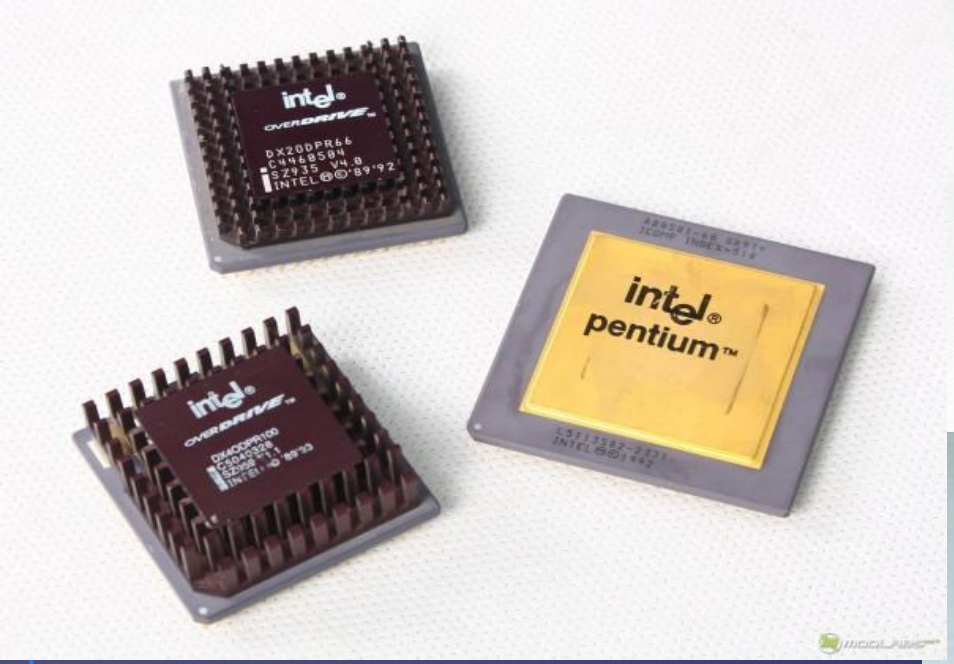
80286 МП

Intel 80286 architecture





There are also central processing units of the fifth generation, used in Intel Pentium 60 and Intel Pentium 66, central processing units of the sixth generation, used in computers Intel Pentium 75,90,100 and 133. Few years ago appeared central processing units of seventh and eighth generations.

Computer speeds are measured in gigahertz today. Recently, an optical central processing unit has been invented, which is capable of executing trillions discrete operations per second or it is as fast as the speed of light. So, we are at the threshold of new computer era, when artificial intelligence could be invented. There are no questions with «if», the only question is «when». And time will show us either computers become our best friends or our evil enemies as it is shown in some movies.