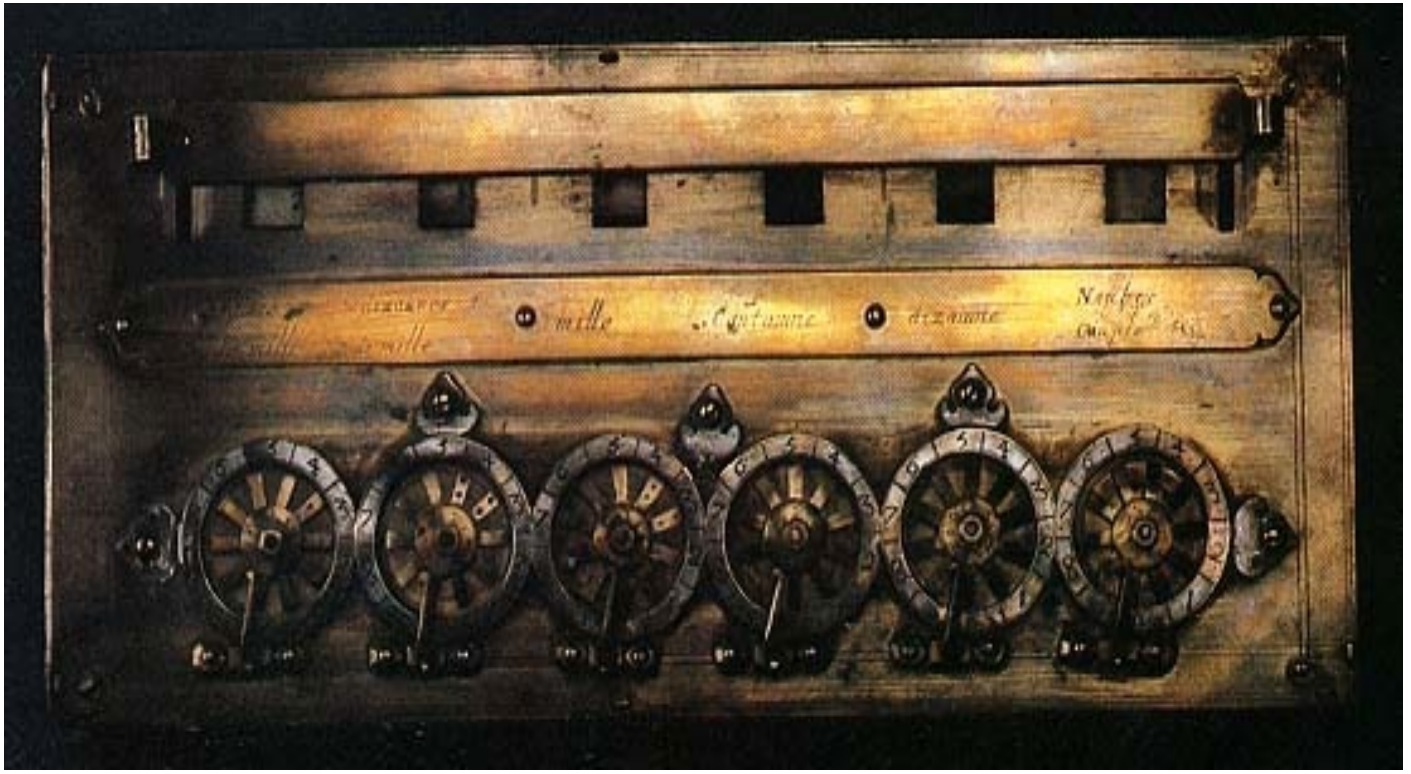
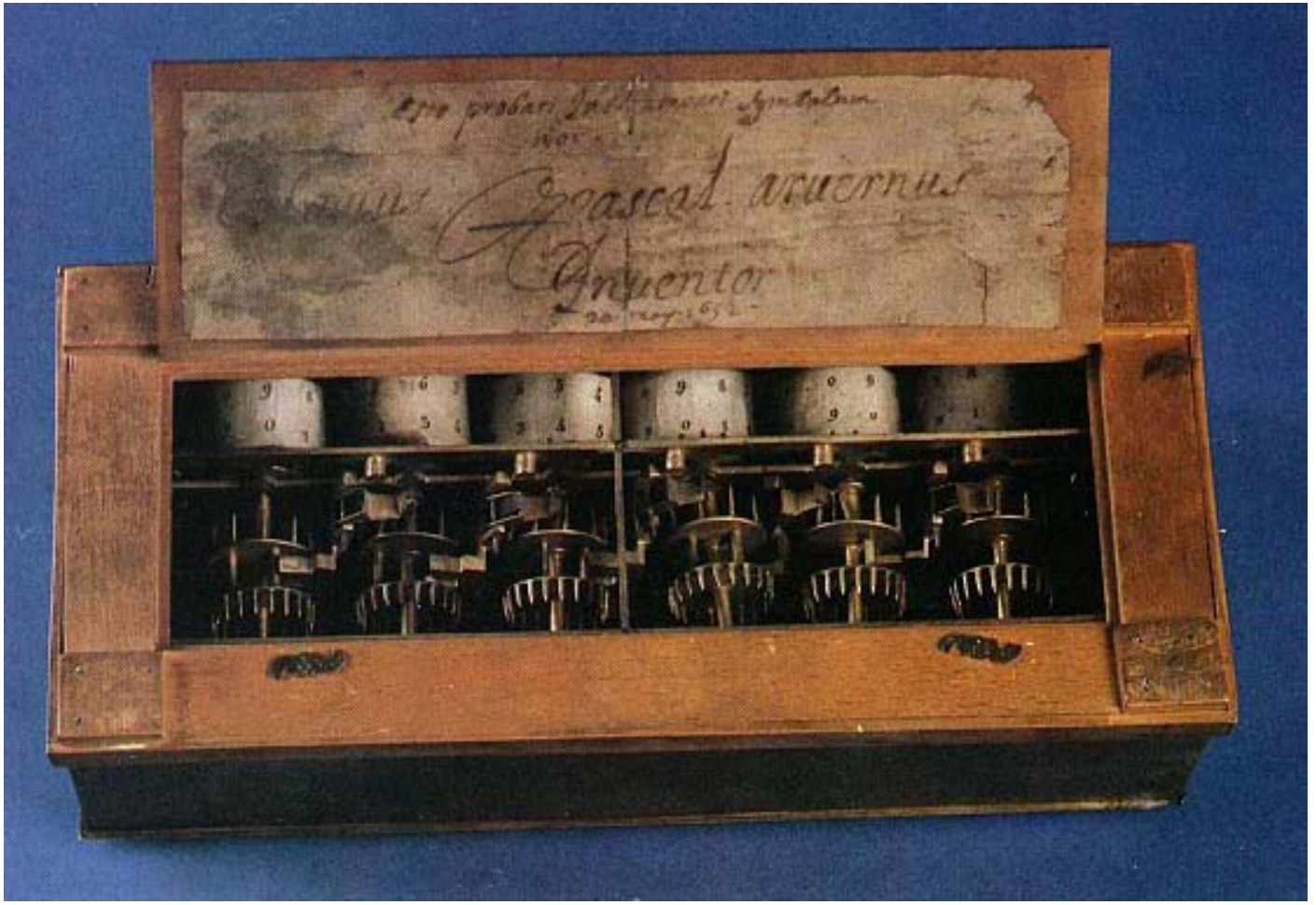
Histórico dos Computadores

Fonte: https://tvcrit.org/Classes/Jbutler/T389/ITHistoryOutline.htm

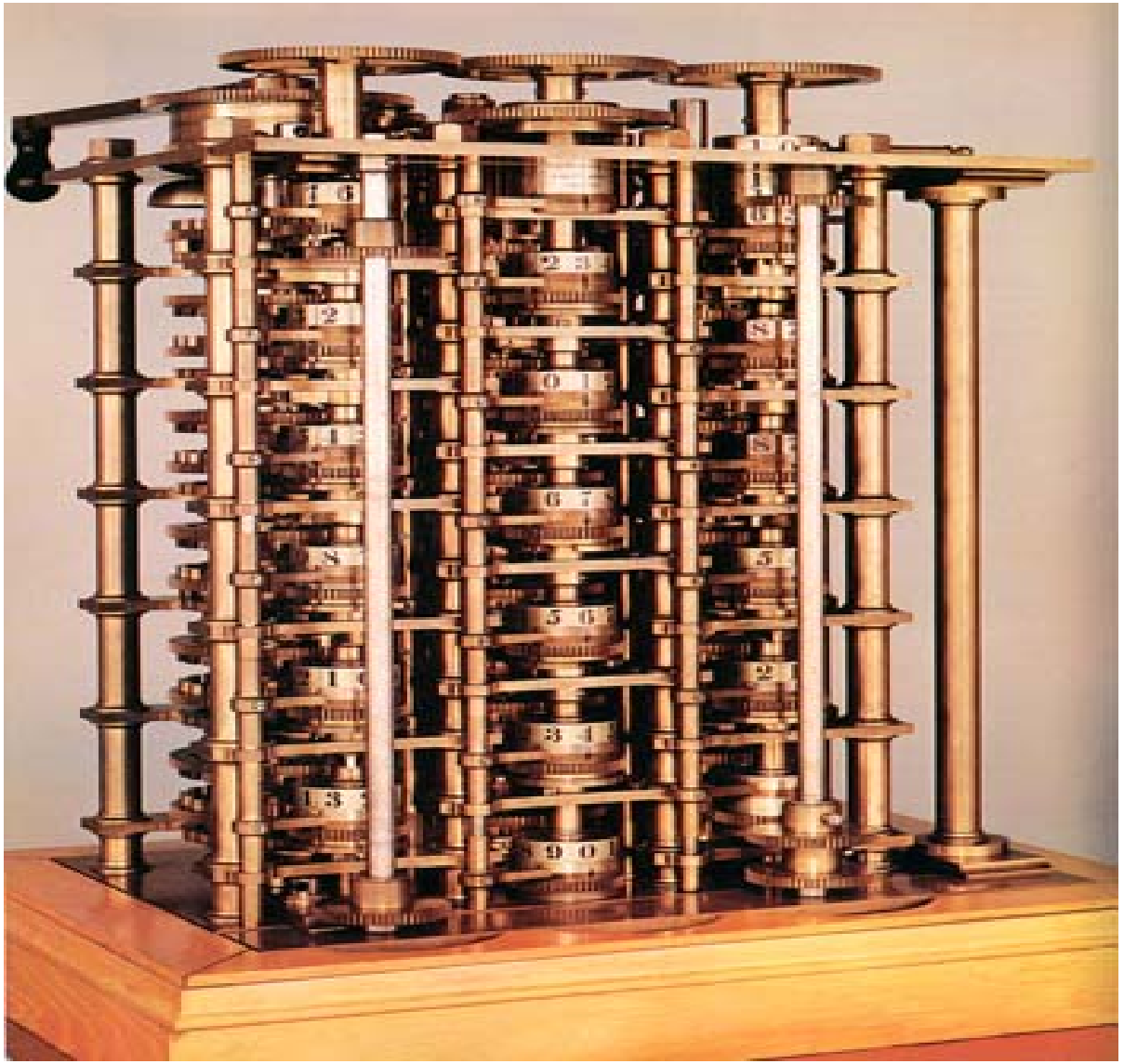
Máquina de calcular Pascal (frente) - 1642



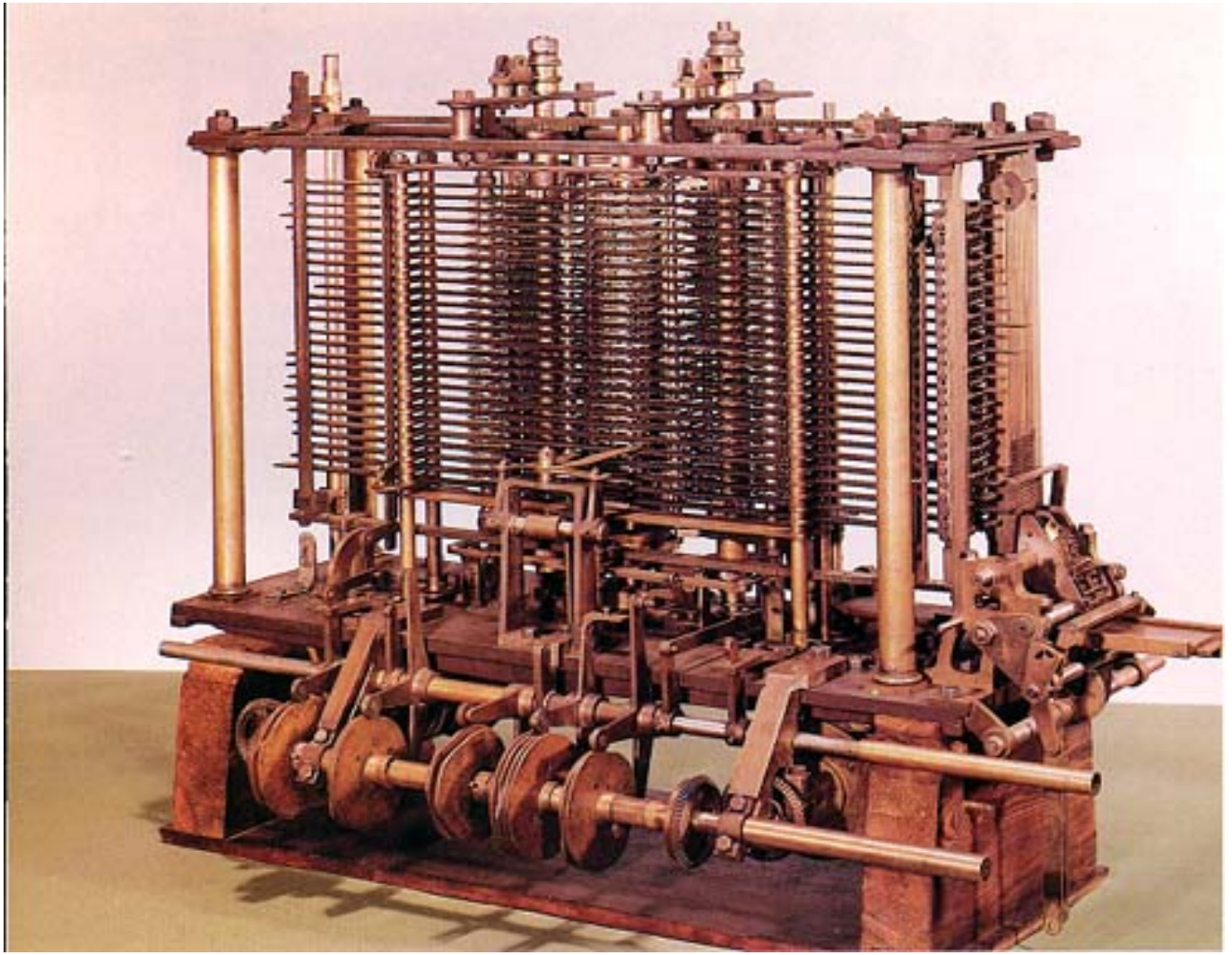
Máquina de calcular Pascal (interior) - 1642



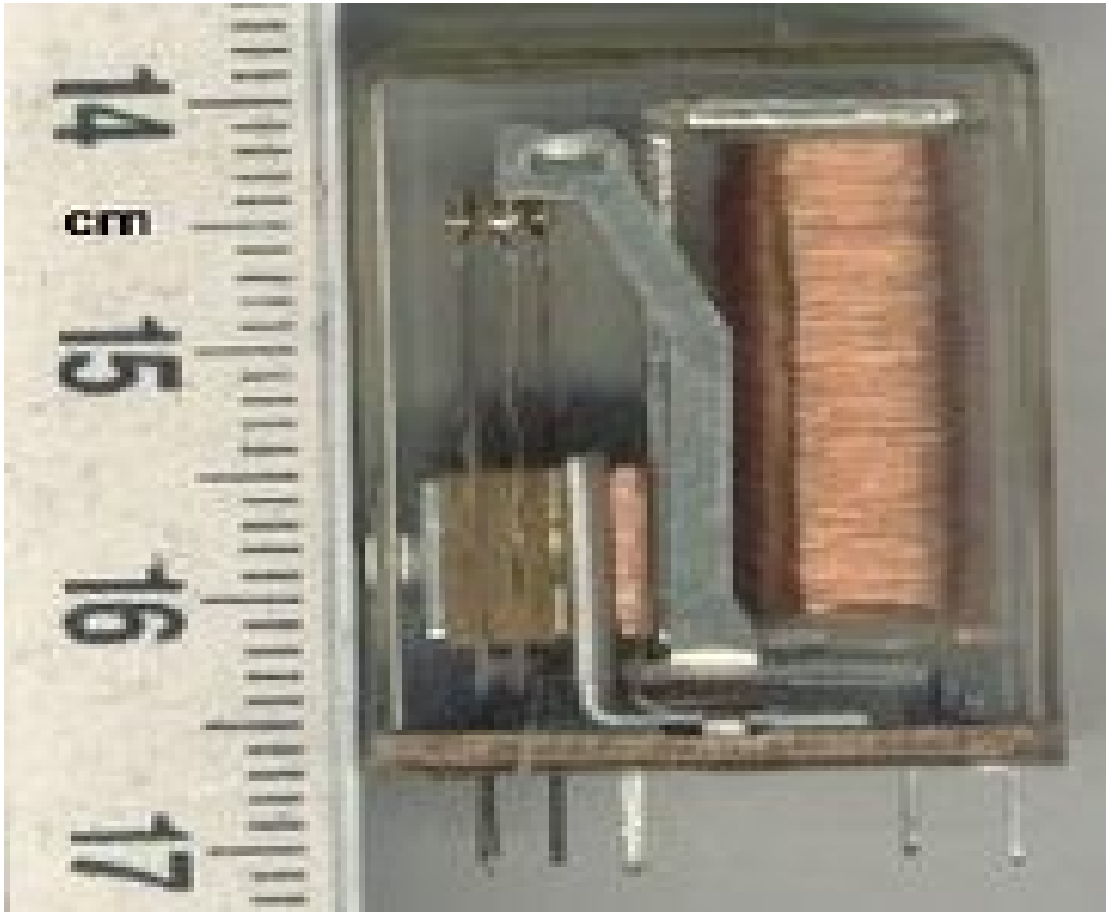
Máquina de diferenças Babbage - 1834



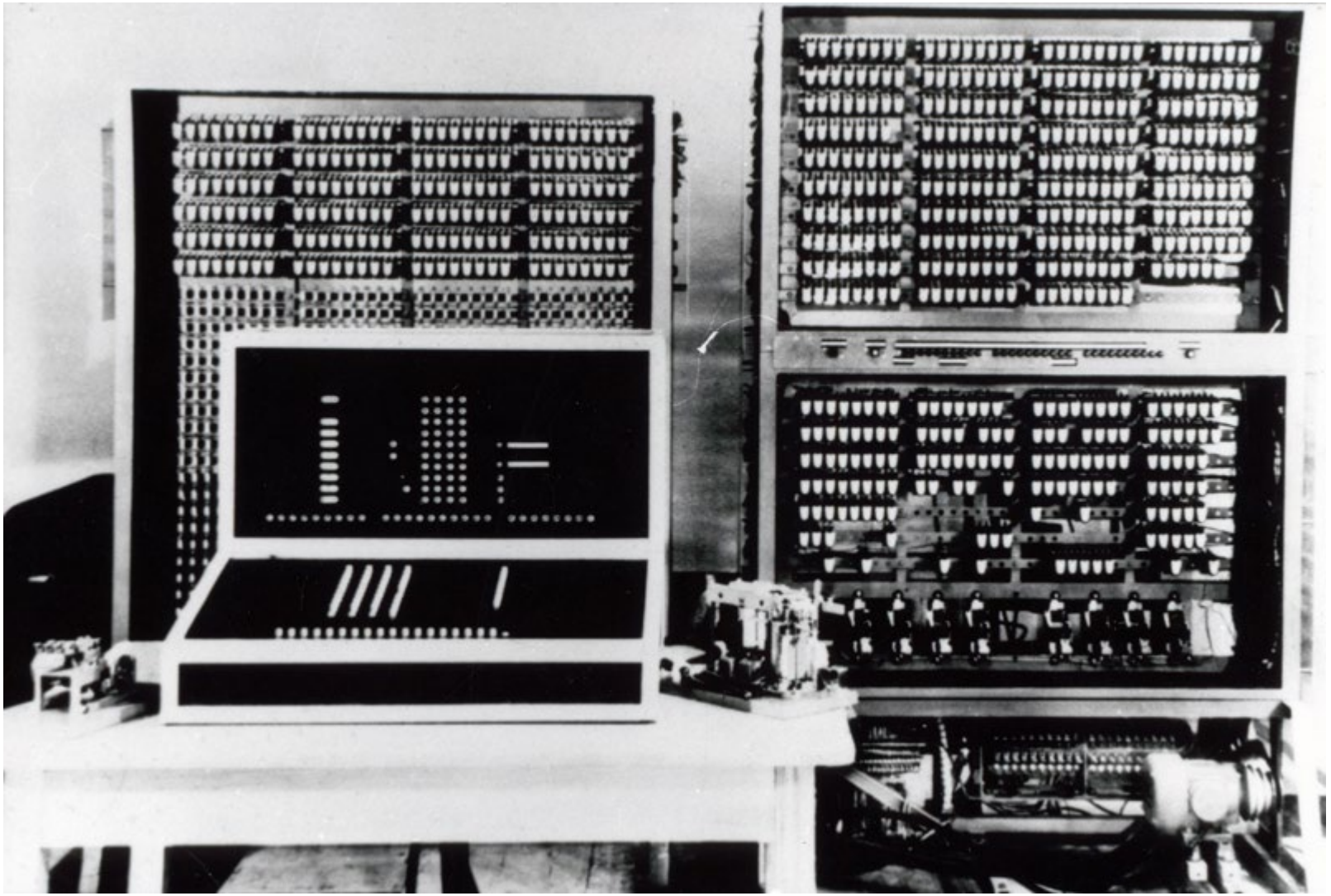
Máquina analítica Babbage - 1834



Relay eletromecânico

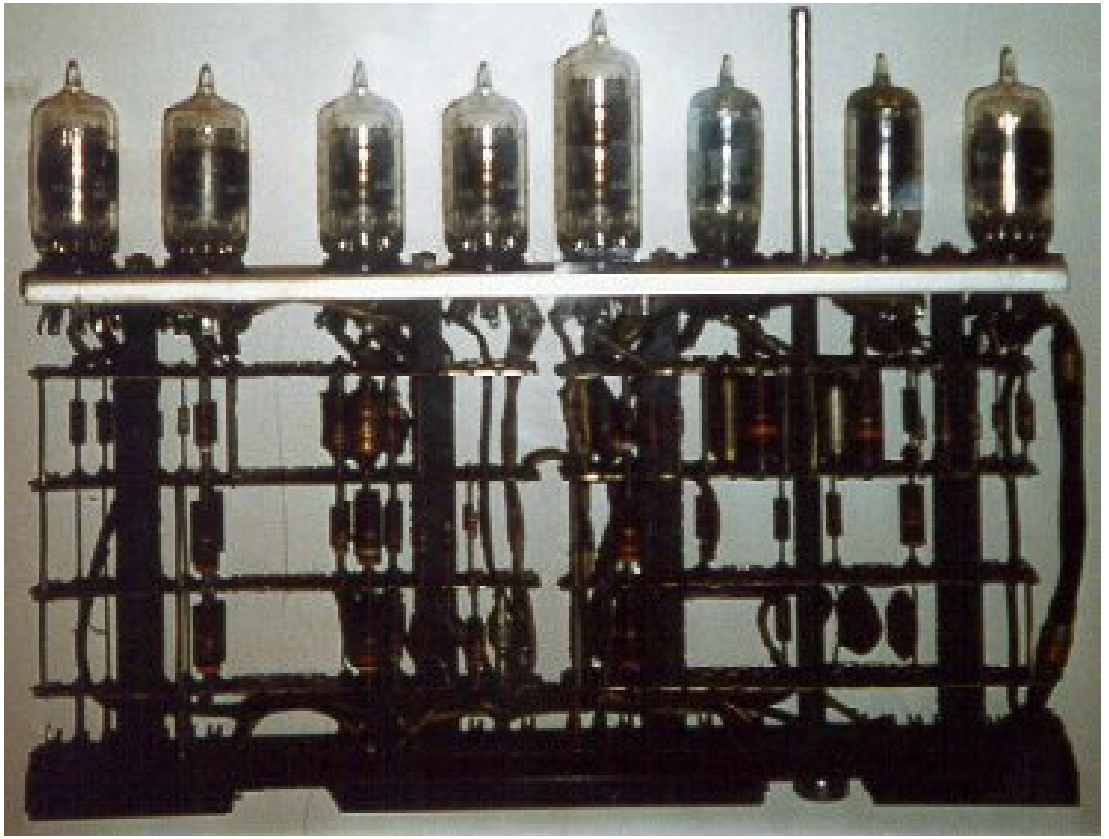


Máquina Z3 Zuse - 1941

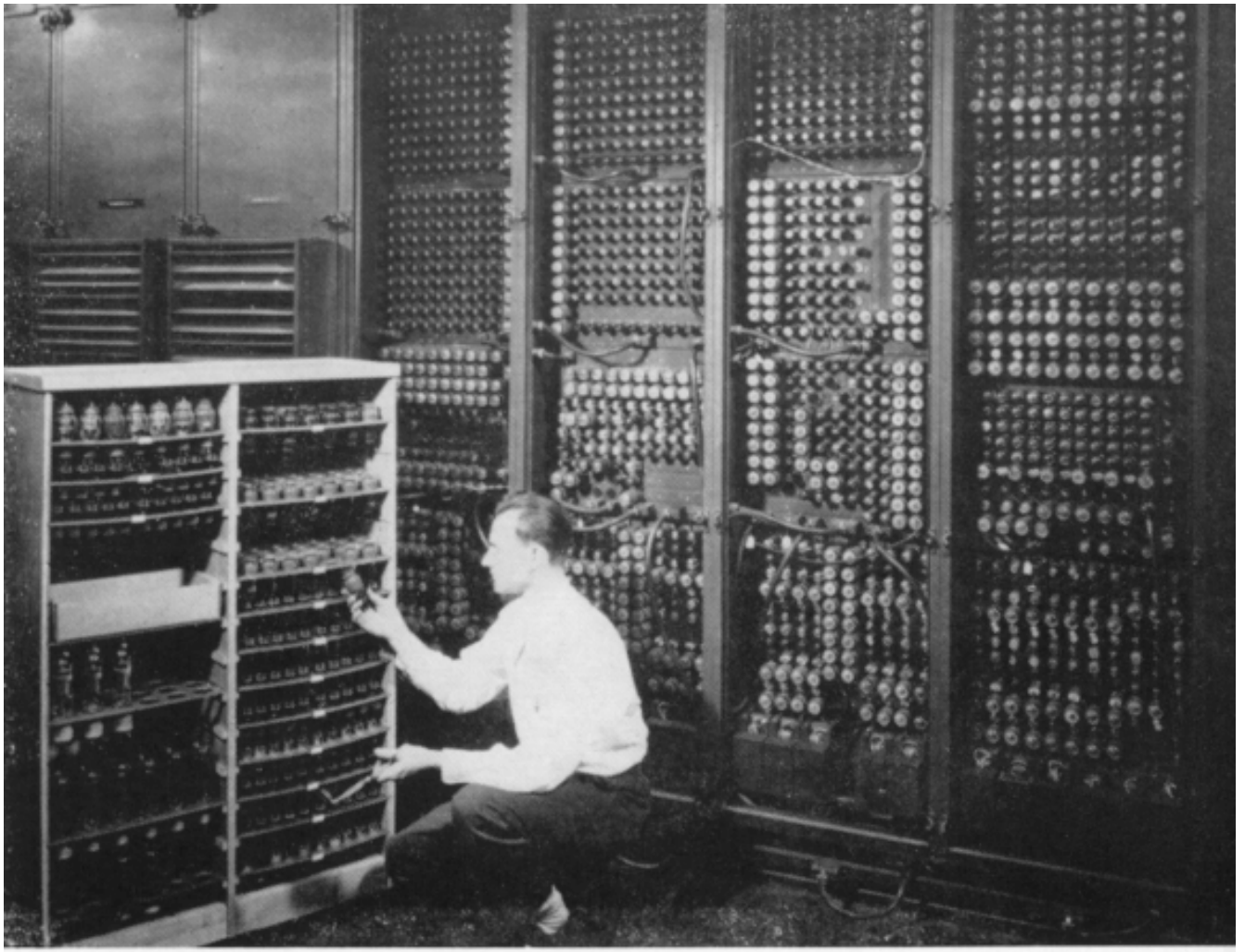


Válvula - 1906

Circuito com válvula

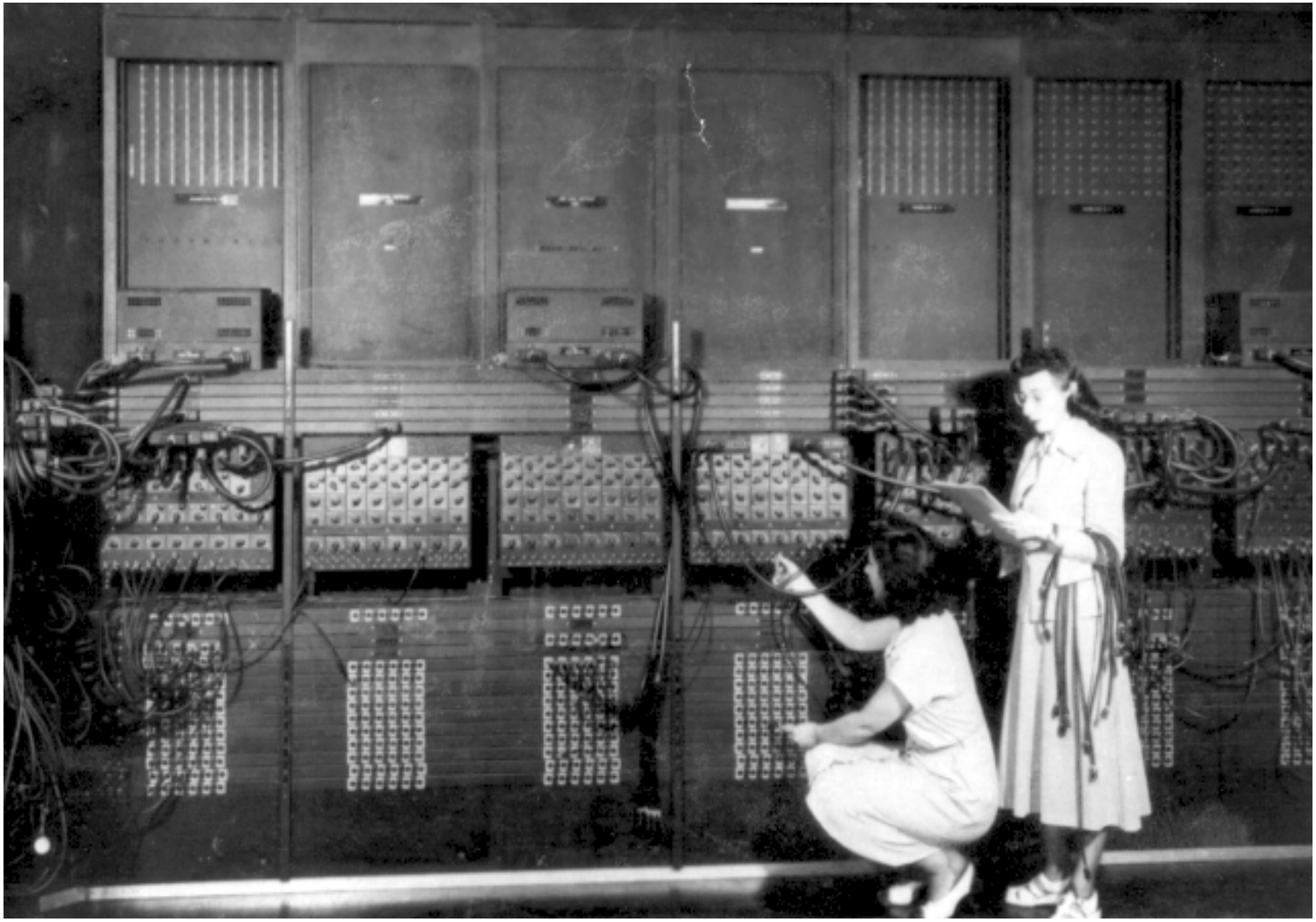


ENIAC - 1946



Replacing a bad tube meant checking among ENIAC's 19,000 possibilities.

ENIAC - 1946



Arquitetura de Von Neumann

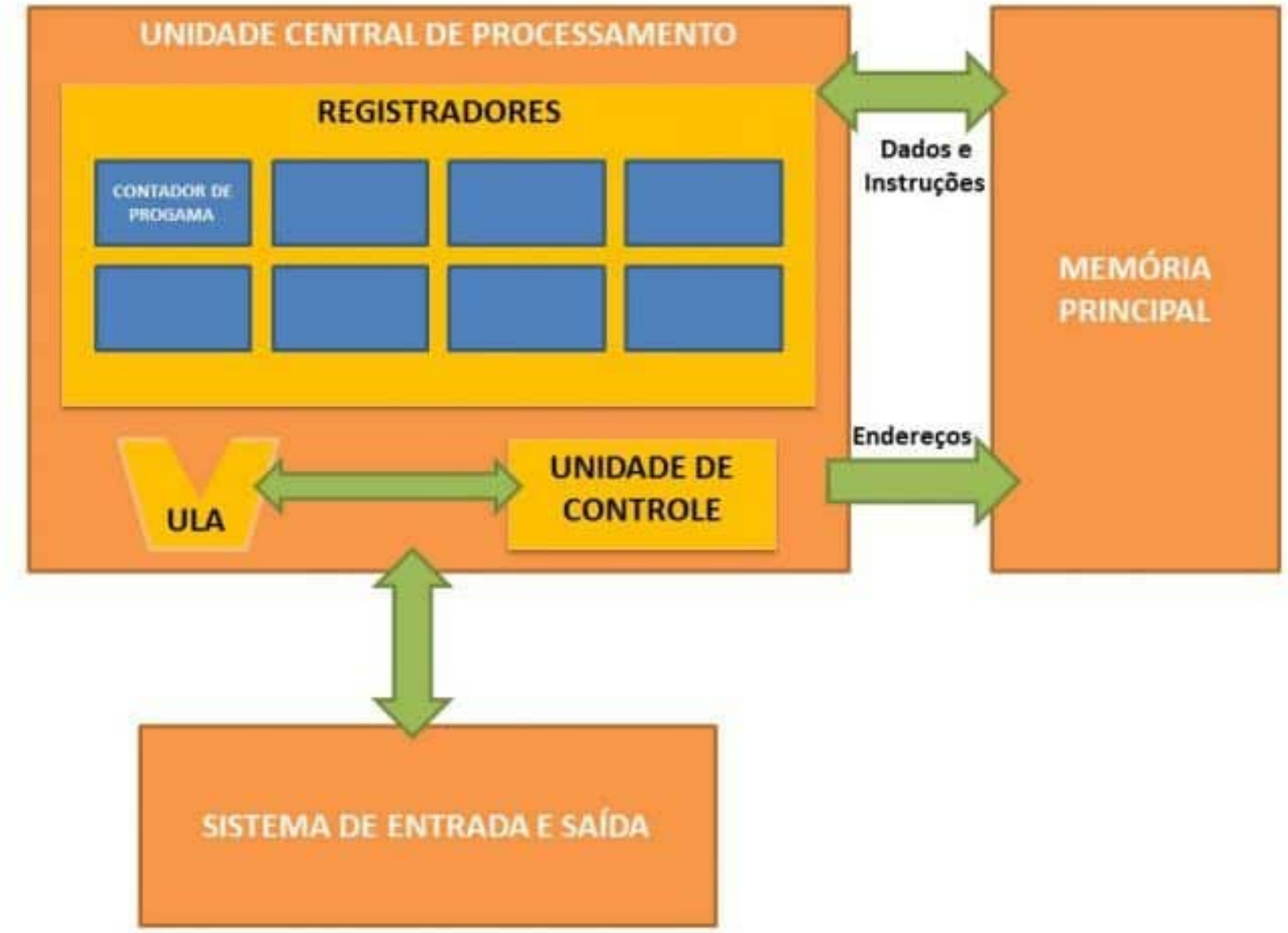
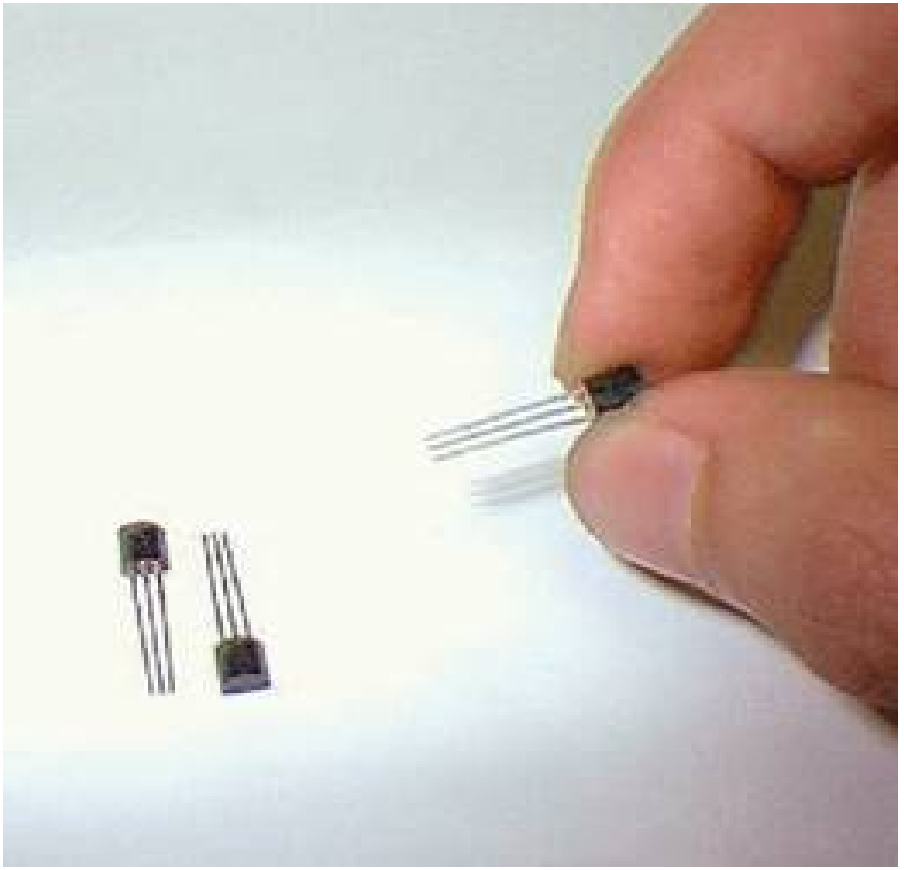
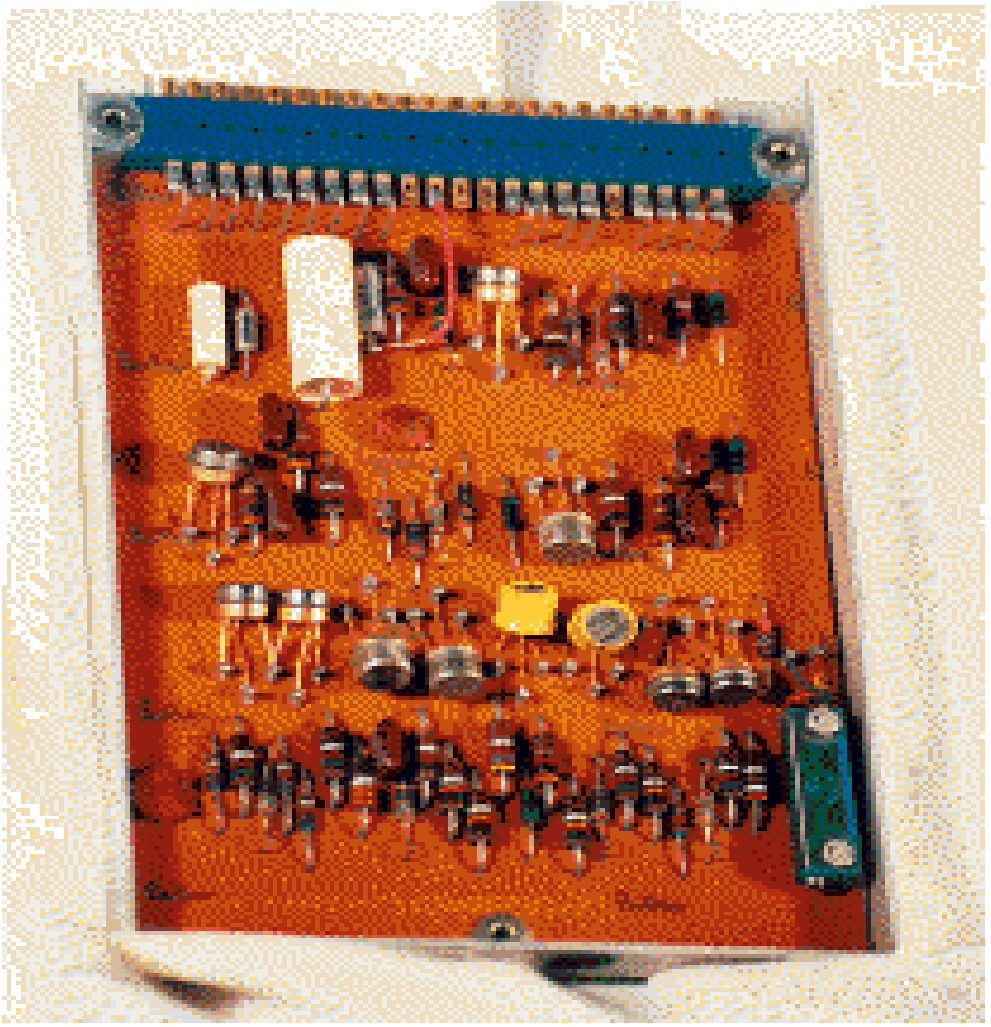


Figura retirada de https://medium.com/trainingcenter/a-arquitetura-de-von-neumann-121489873fd4

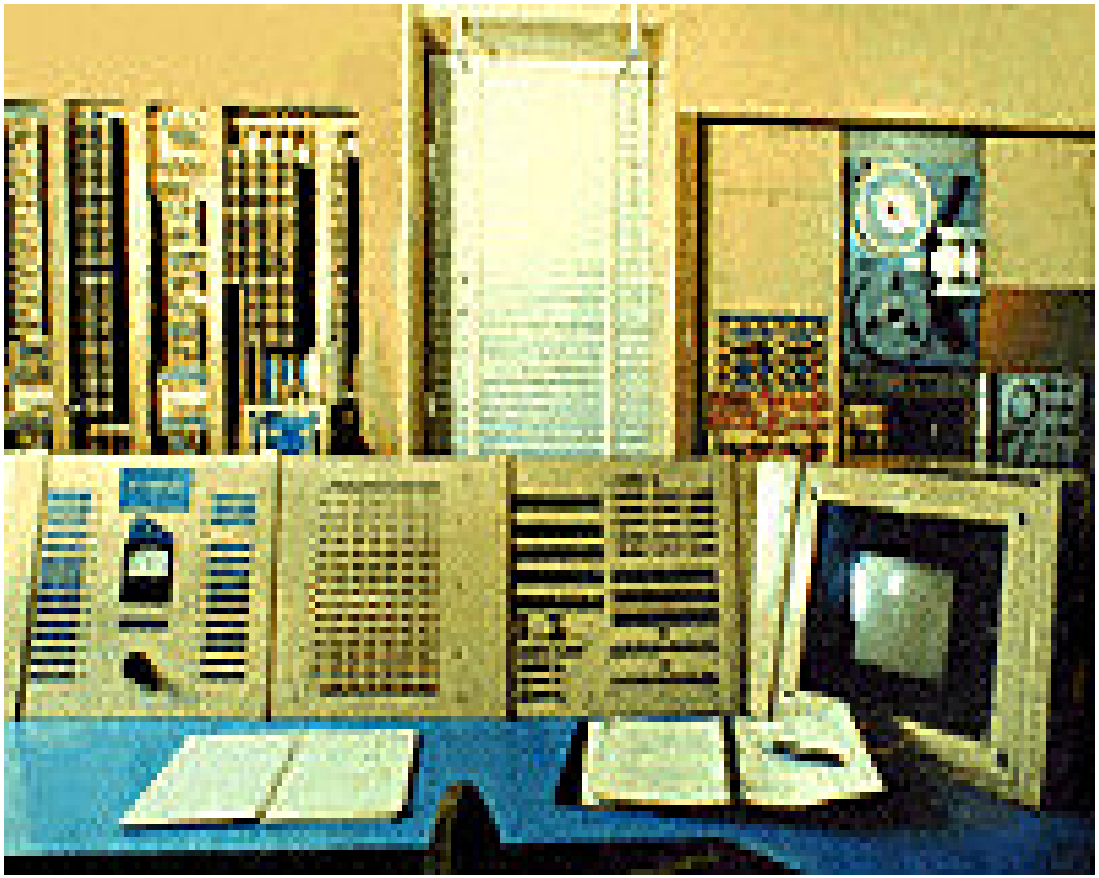
Transistor - 1947



Circuito transistorizado

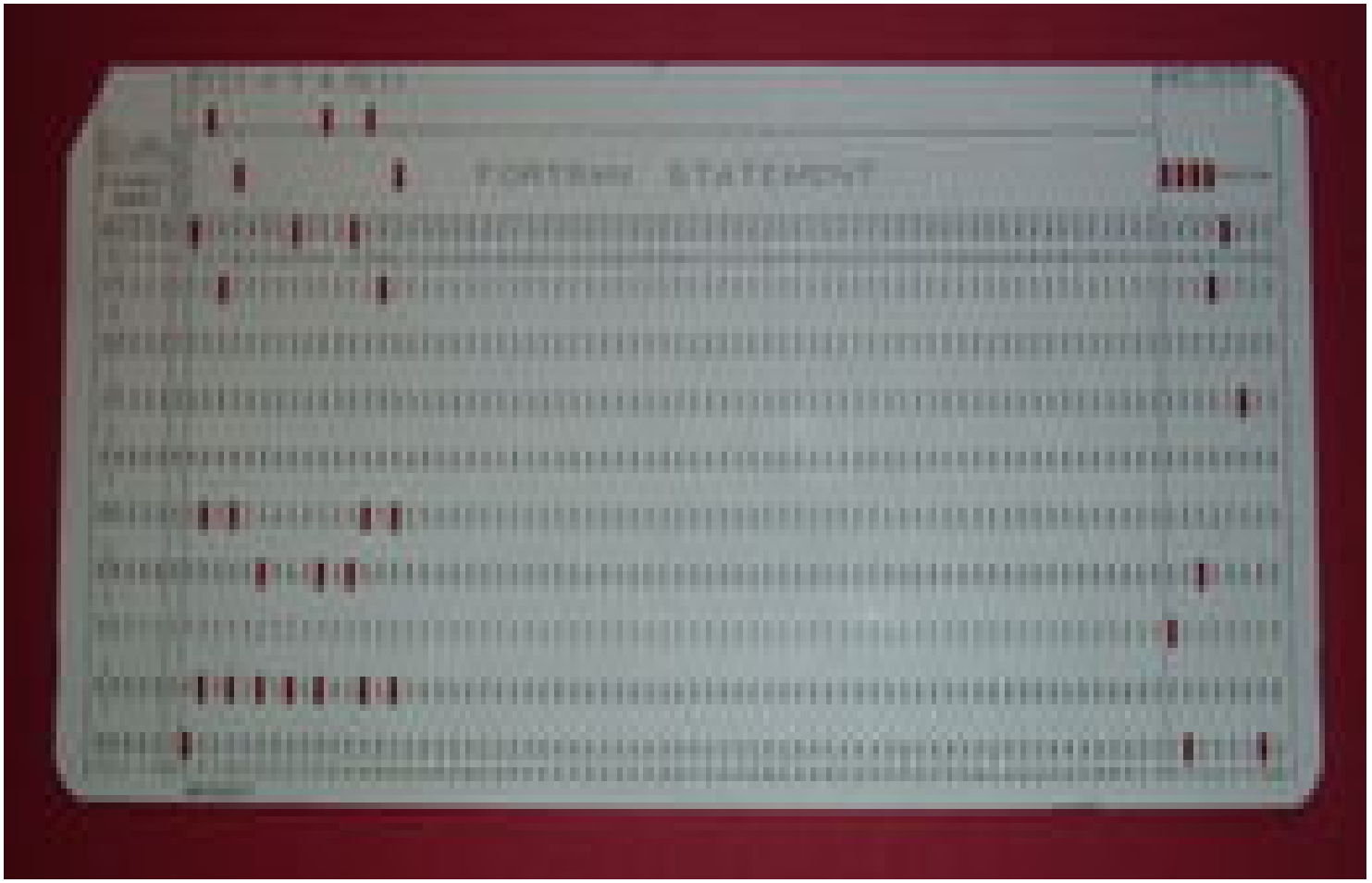


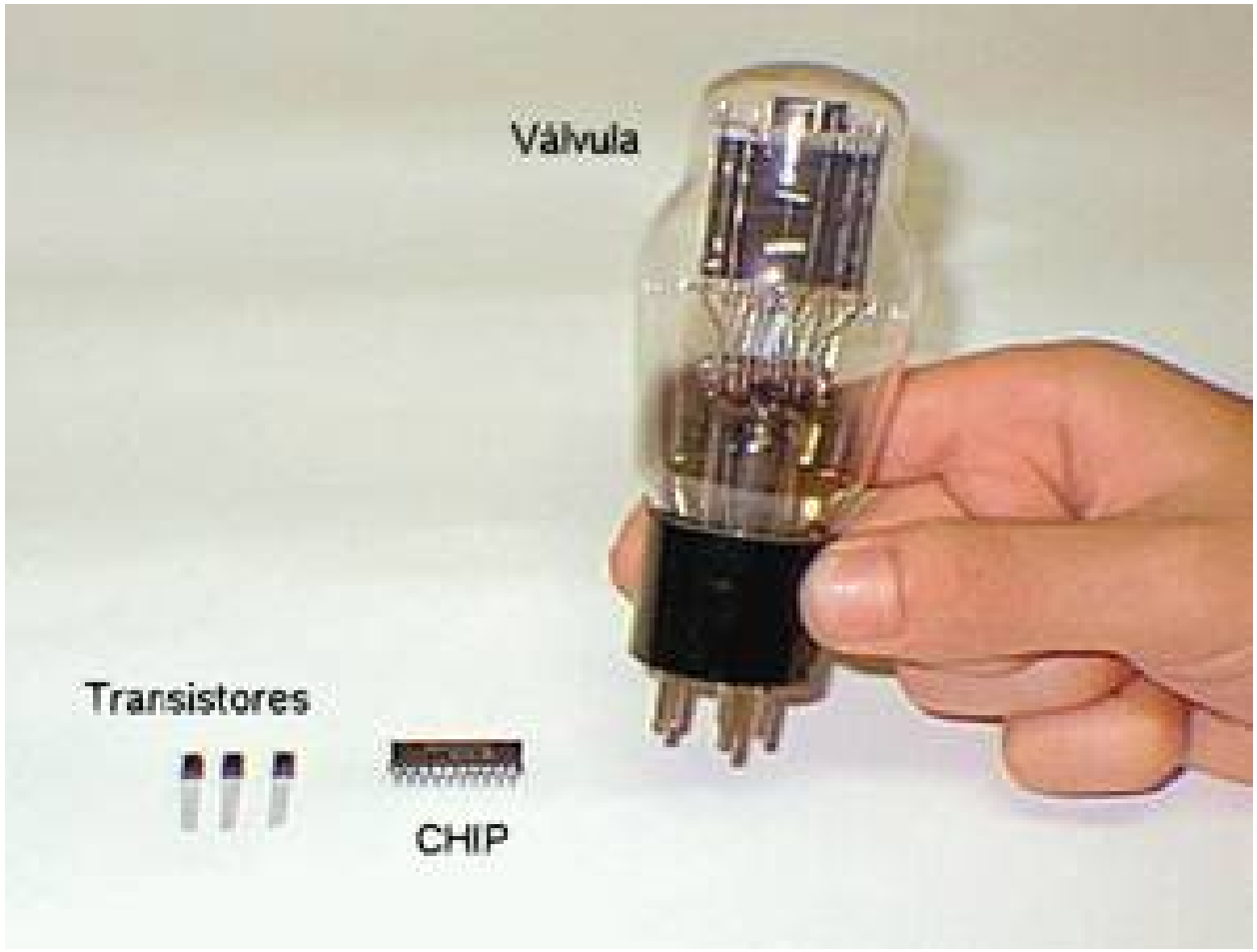
TX-0: Primeiro computador transistorizado - 1956



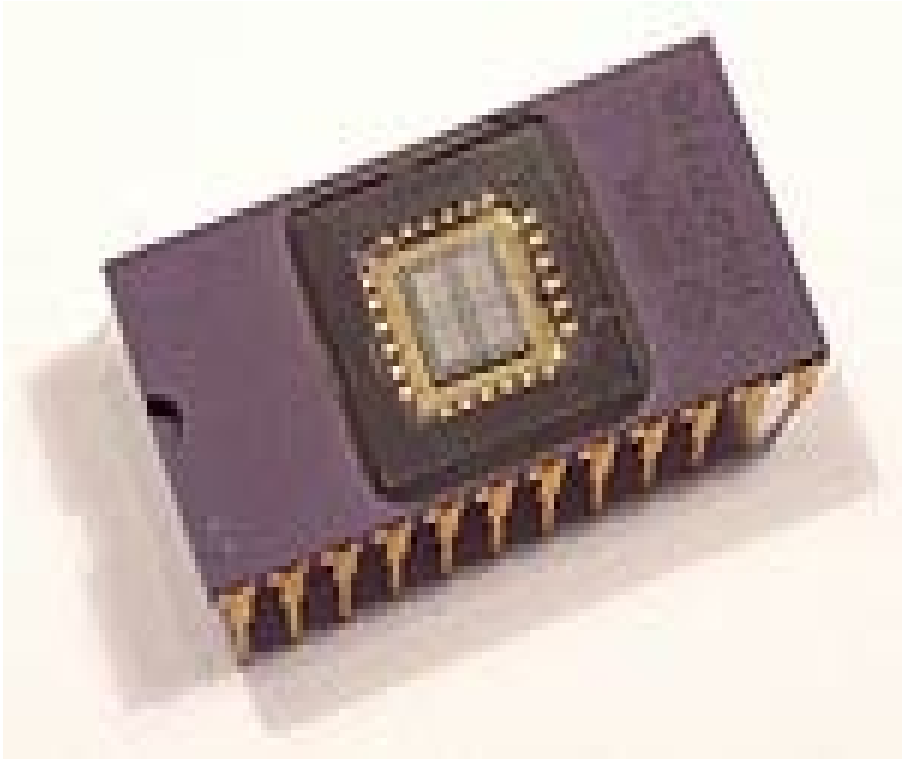
IBM 360 - 1964

Cartão perfurado – FORTRAN - 1957

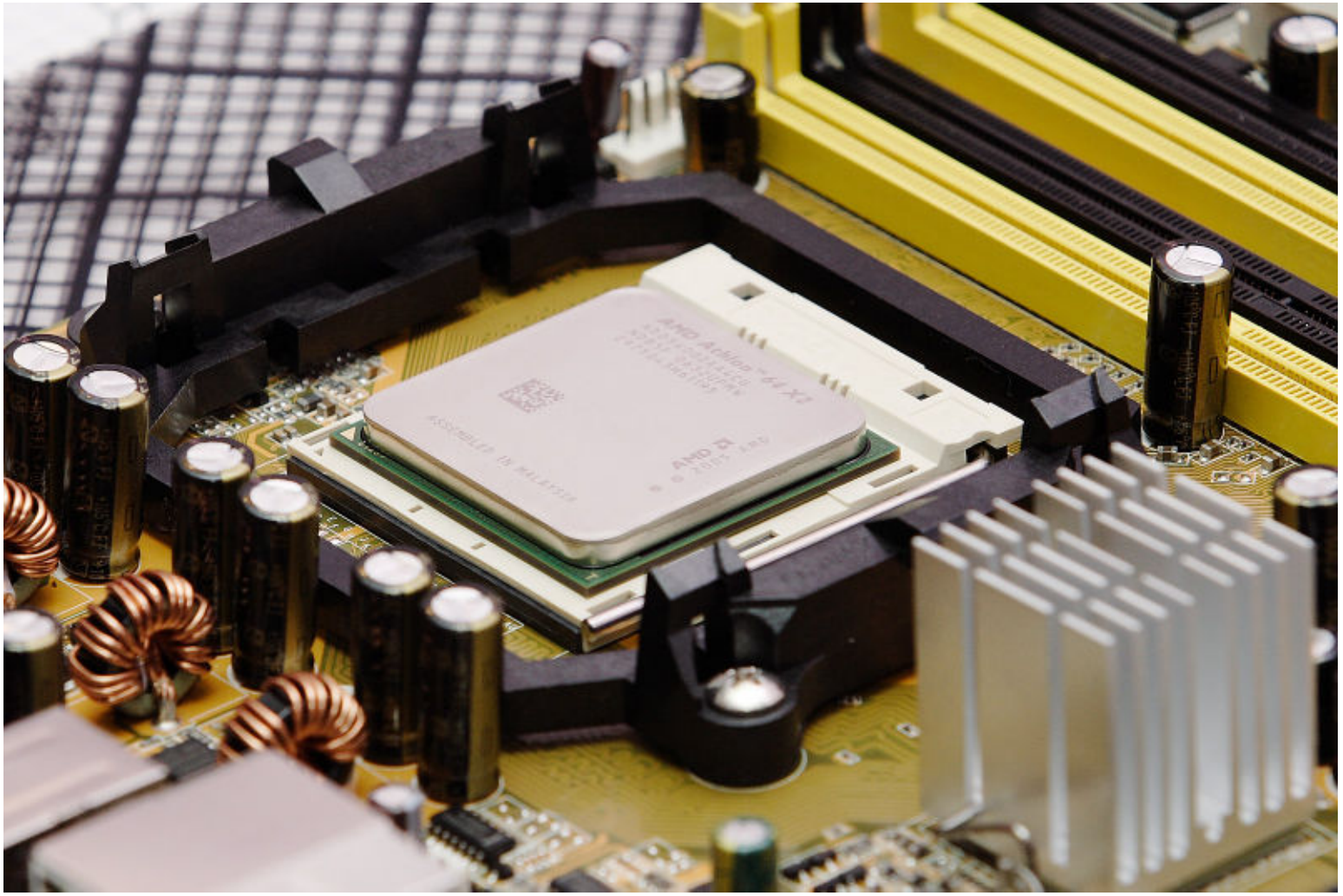


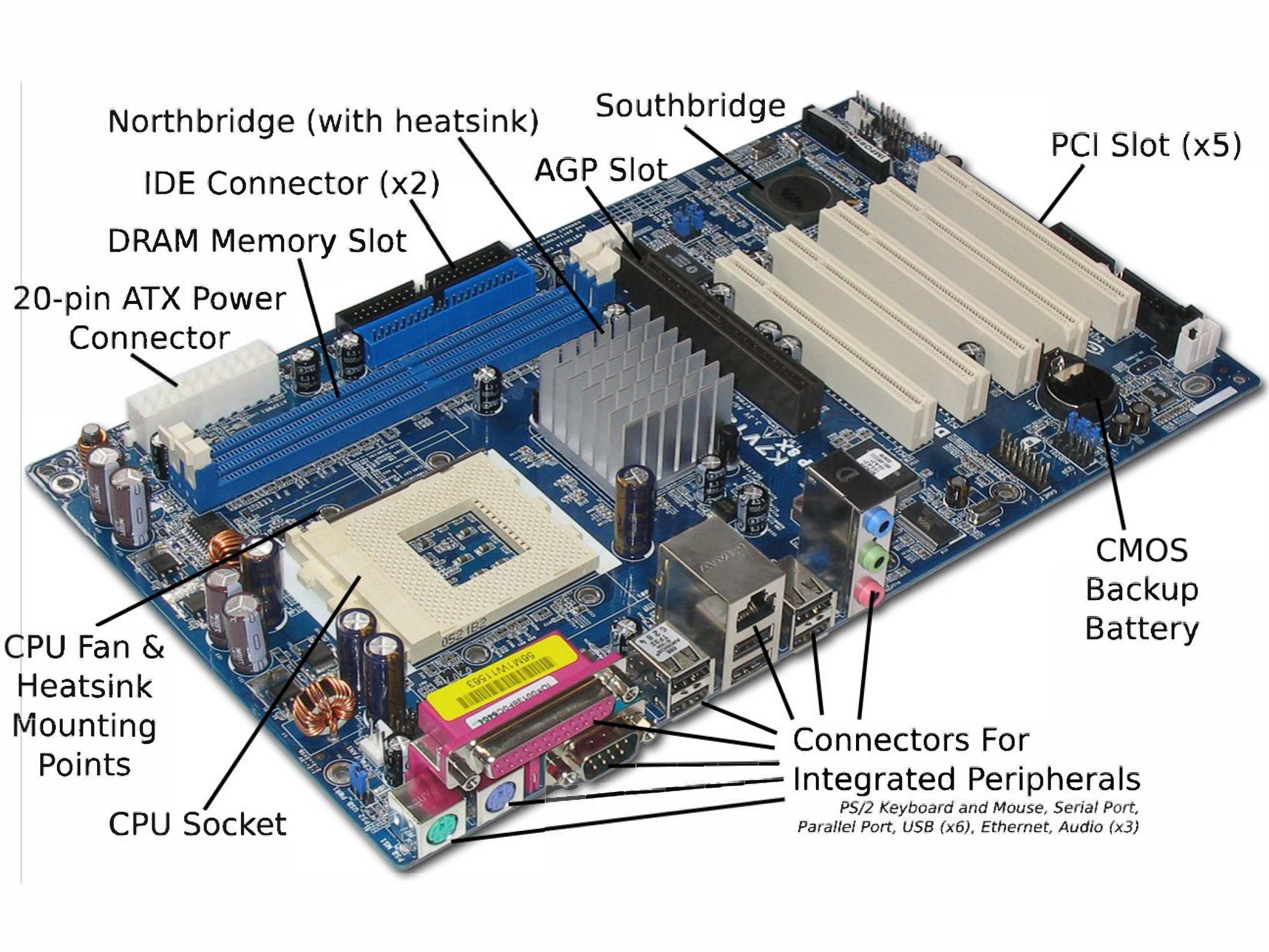

Válvula
Transistores
CHIP

Circuito integrado

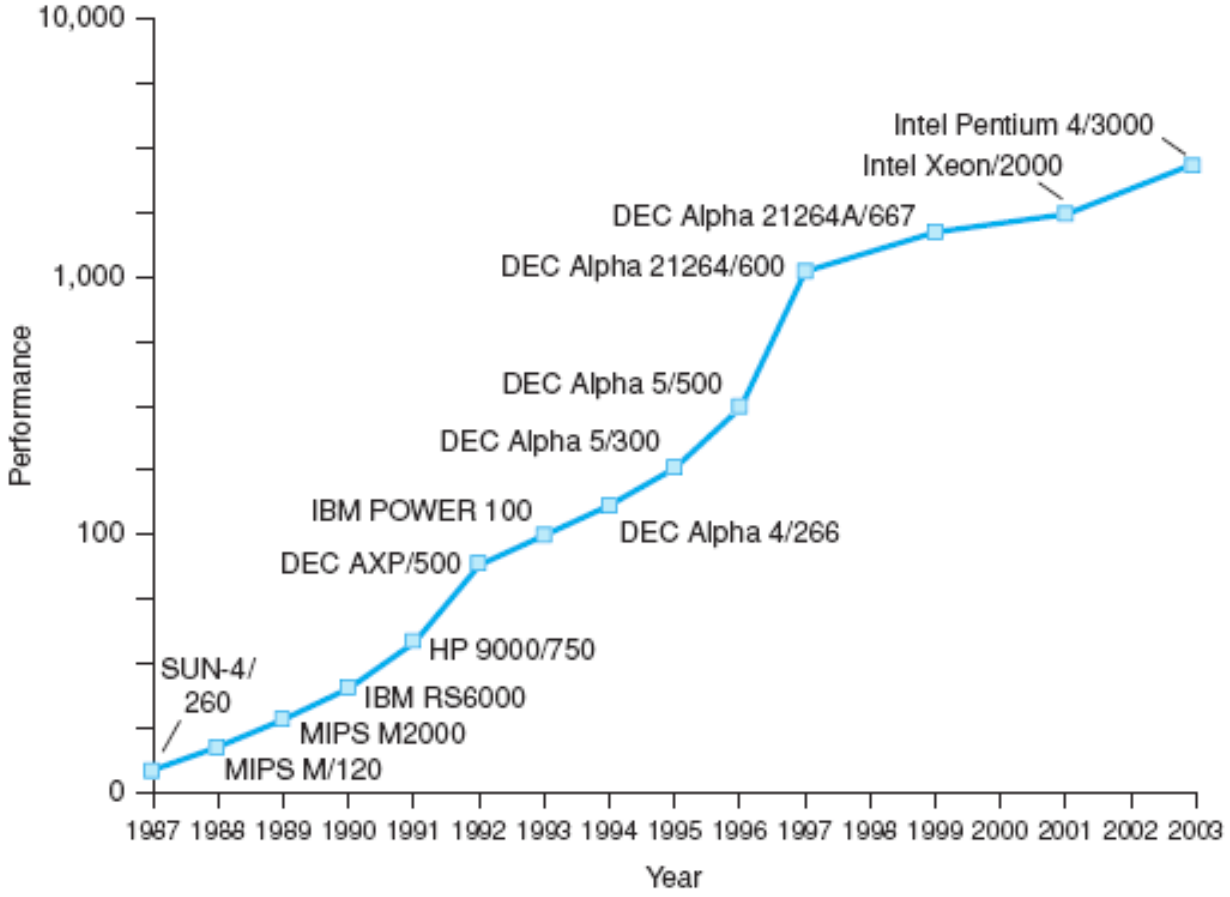


Processador AMD dual core




Northbridge (with heatsink)
Southbridge
PCI Slot (x5)
IDE Connector (x2)
AGP Slot
DRAM Memory Slot
20-pin ATX Power Connector
CMOS Backup Battery
CPU Fan & Heatsink Mounting Points
CPU Socket
Connectors For Integrated Peripherals
PS/2 Keyboard and Mouse, Serial Port, Parallel Port, USB (x6), Ethernet, Audio (x3)

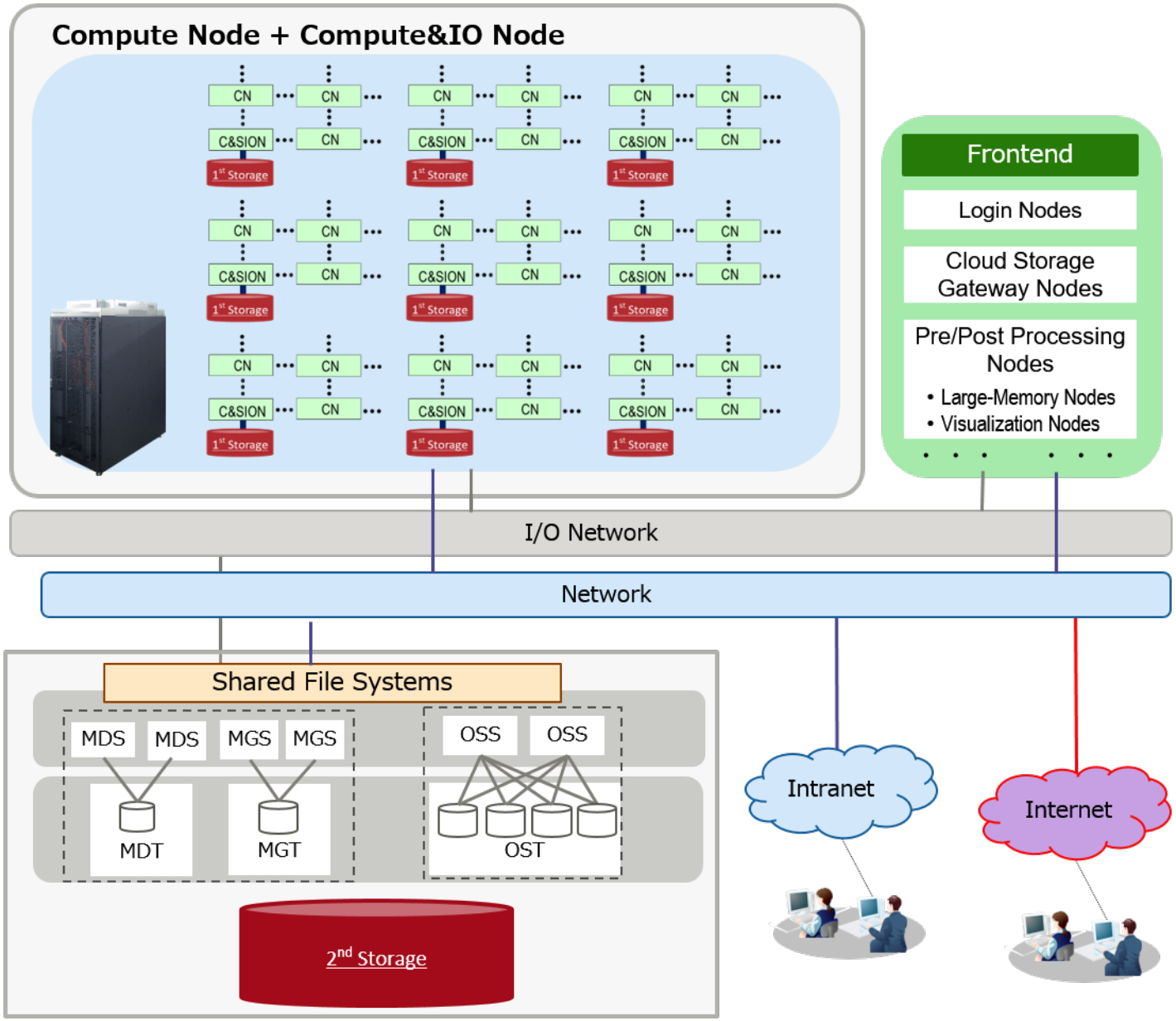
Histórico do Desempenho das Estações de Trabalho



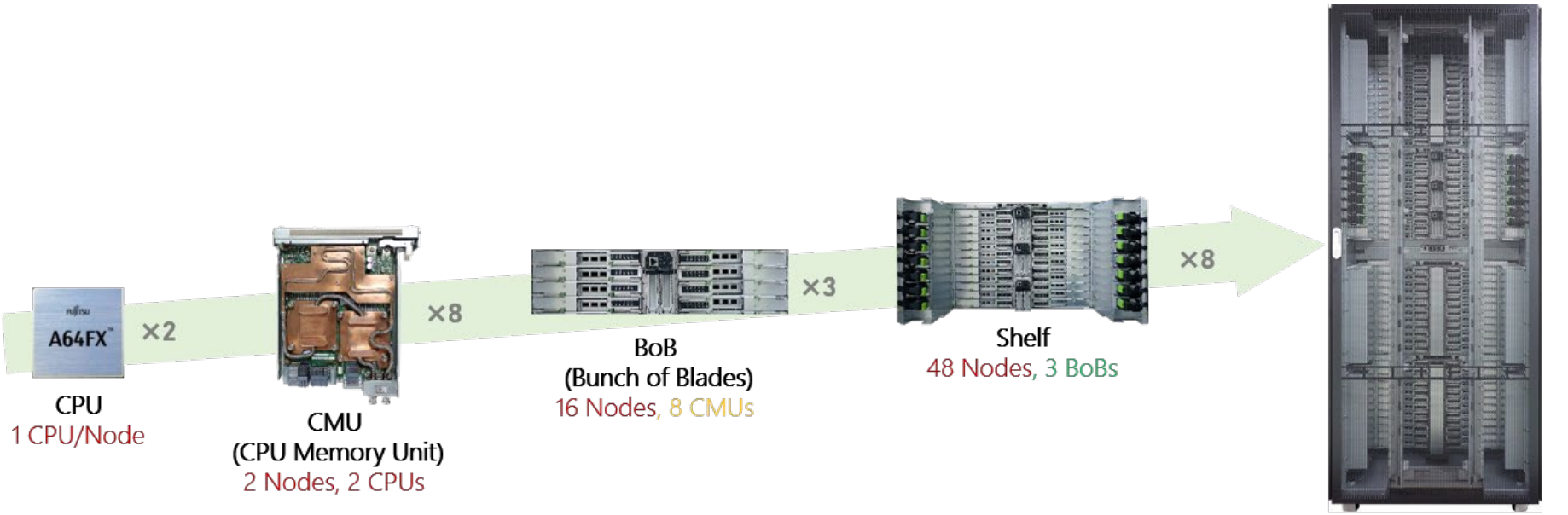
Top500.org

- Supercomputador Fugaku, A64FX 48C 2.2GHz
  - Tofu interconnect D, Fujitsu
  - RIKEN Center for Computational Science
  - Japão
  - Número de cores: 7,299,072
  - Máx Tflops/s: 415,530
  - Potência (kW): 28,335

Arquitetura



Arquitetura



Courtesy of FUJITSU LIMITED

Fugaku