IBM’s first computer - 19 were sold
Start of new supercomputing era based on relay switches.

IBM’s first commercial computer
Japan enters transistorized computers era

Fujitsu FACOM 222
Business applications.

Fujitsu FACOM 100
5Kflops

IBM 704
Business applications.

CDC 6600
Weather forecasting.

CDC 8600
Multiple uses.

Cray1
Weather forecasting.

Seymour Cray left CDC to start his own firm making supercomputers and went back to a single processor design

Fujitsu PRIMEHPC FX10
Expedite academic research and product development

K Computer
Climate change modelling, Disaster prevention, Nanotechnology, Medical research etc.

Tianhe-1A
Molecular dynamics simulation.

Cray Jaguar
Calculation and simulation in many fields including astrophysics, materials, and climate research.

Supercomputers
Numerical Wind Tunnel Fluid dynamics, wind tunnel simulations.

RoadRunner
Simulations regarding the aging of nuclear materials for safety purposes.

Since 1993, performance of the #1 ranked position grew faster than Moore’s Law, doubling roughly every 14 months. The fastest system as of November 2011 is roughly 180,000 times faster (in terms of peak Tflops) than the fastest system as of June 1993.

How much more powerful is the K computer compared to the Bombe? If the calculating power of the Bombe 500 Ops were to be represented by a ream of paper (5cm) - one sheet of paper = 1 Ops, the power of the K computer would be represented by a stack of paper that encircled the earth nearly 100,000 times.

Fujitsu FACOM 100

IBM 701
Defence and research including hydrodynamics, aerodynamics, ballistics etc.

ENIAC
Military usage Ballistics.

Bombe
Defence (Code-breaking), Helped to shorten WW2.

Colossus
Defence (Code-breaking), Helped to shorten WW2.

ENIAC
Military usage Ballistics.

BABY
Research.

Lyons Electronic Office
First business applications for a computer - valuations and payroll.

1993 written by George Orwell (first novel to express the double-edged sword nature of computing advances for humanity)

A to K and Beyond – the history of supercomputing

Kept secret for 25 yrs after the war so all history of computing needed revising in the 1970s

Also kept secret for 25 yrs after the war so all history of computing needed revising in the 1970s

1984 written by George Orwell (first novel to express the double-edged sword nature of computing advances for humanity)