COMPUTING: 50 YEARS OF CHANGE

1961	**2011**
IBM 7030 "Super-Computer"	**Sprint HTC Evo 4G "Smartphone"**

DIMENSIONS

2,500 sq. ft. (size of the average American home). The CPU alone was 900 ft^2 (30' x 6' x 5')	4.8 x 2.6 x 0.5 inches.

MEMORY

Maximum of 256 Kilobytes (256,000 bytes) of RAM (Random Access Memory) immersion oil heated & cooled to stabilize its operation.	1 Gigabyte (1,000,000,000 bytes) of ROM (Read-Only Memory) + 512 Megabytes (512,000,000 bytes) of RAM (Random-Access Memory).

COMPUTING SPEED

About 480 *Thousand* computations per second.	About 36 *Million* computations per second.

WEIGHT

Approximately 40,000 pounds (20 Tons).	6 Ounces, including the battery.

COST

About $13,000,000	About $200

POWER

20 Kilowatts of 208 Volt electric power	One tiny 7 Volt DC lithium battery

TEMPERATURE

Required a dedicated environment and 8 tons of air conditioning	No special cooling required but gets slightly warm in your hand..

TRANSISTORS

169,200 discrete transistors (the small dark circles) on circuit boards. Each larger than one microchip.	Thousands of transistors are put on a microchip smaller than your fingernail