



Seymour Cray with the Cray-2 system

April 6, 1972
Cray Research, Inc. opens in Chippewa Falls [WI]

1975

- Cray-1 S/N 1 system powered up
- Cray expands to River Street in Chippewa Falls [WI]

1977

- CF operations move to Industrial Park [WI]
- 1st international shipment (ECMWF) [UK]
- CRI becomes profitable with sale to NCAR [CO]

1979

- 1st university customer (U of London)
- 1st electronics customer (Bell Labs) [NJ]
- Cray Lab opens in Boulder [CO]
- Subsidiaries open in Japan and Germany
- 1st West German customer (Max Planck Inst)
- 27th Mersenne prime discovered using a Cray-1 system
- Announced Cray-1 S system
- 1st Cray system shipped to Cray Research [MN]

1981

- 1st domestic university customer (U of MN)
- 1st petroleum customer (Atlantic Richfield) [TX]
- Cray IC facility begins operation in CF [WI]
- Cray PC facility opens at CF Riverside [WI]
- Seymour Cray becomes an independent contractor
- Unveiled liquid cooling technology for Cray-2 system

1983

- Subsidiaries open in Canada and Netherlands
- 1st Cray-1 M system ordered by Phillips Petroleum [OK]
- 1st Netherlands customer (Shell)
- 1st Swedish customer (Saab)
- 1st Cray X-MP system ships
- 1st automotive customer (GM) [MI]
- 29th Mersenne prime discovered using a Cray X-MP system

1985

- 1st Italian customer (CINECA)
- 1st shipment to the Navy (NRL) [NJ]
- 100th Cray system ships
- 1st Cray-2 system customer (LLL) [CA]
- Subsidiaries open in Switzerland and Australia
- Cray mfg. moved to 1st Avenue in CF [WI]
- 30th Mersenne prime discovered using Cray X-MP system

1987

- Subsidiary opens in Spain
- Cray used to design winning yacht (Stars & Stripes)
- 200th Cray system ships
- Cray listed as a Fortune 500 company
- Cray Academy is established
- Tera Computer Company founded on December 7 in Washington, D.C.

1973

- Cray office opens in Bloomington [MN]
- Module assembly begins at Chiptronic Inc. [WI]

1976

- Cray-1 trademark established
- Cray-1 S/N 1 system ships to Los Alamos [NM]
- 1st public stock offering
- 1st customer order from NCAR [CO]
- Formation of software group [MN]

1978

- 1st CUG meeting sponsored by NCAR [CO]
- 1st commercial customer (UCS) [MO]
- 1st Cray subsidiary opened in the UK
- 1st building in Mendota Heights [MN]

1980

- 1st Japanese customer (CRC)
- 1st aeronautical engineering customer (Boeing) [WA]
- 1st aerospace customer (Arnold Engineering) [TN]
- Subsidiary opens in France

1982

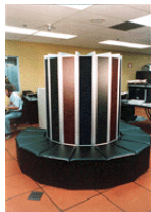
- Corporate offices moved to Minneapolis [MN]
- Announced Cray X-MP and Cray SSD systems
- Opened Rice Lake mfg. facility [WI]
- Announced Cray-1 M system
- 1st Canadian customer (Canada Met)
- 1st Cray SSD system shipment to NASA AMES [CA]
- 28th Mersenne prime discovered using a Cray-1 system

1984

- 1st customer in Saudi Arabia (Aramco)
- Subsidiaries open in Italy and Sweden
- Formed Cray Technical Operations Division

1986

- 1st medical research customer (NCI) [MD]
- 1st chemical industry customer (DuPont) [DE]
- 1st customer ship to Australia (DOD)
- Subsidiaries open in Hong Kong and Norway



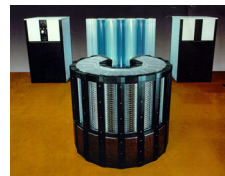
Cray-1™ System (1976)

First Supercomputer
160 MFLOPS Processor
160 MFLOPS System Peak
8MB (1MW) Main Memory



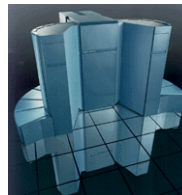
Cray X-MP™ System (1982)

First Multiprocessor Supercomputer
235 MFLOPS Processor
940 MFLOPS System Peak
512MB (64MW) Main Memory



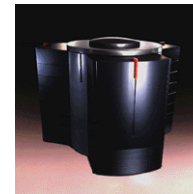
Cray-2™ System (1985)

First Immersion-Cooled Supercomputer
475 MFLOPS Processor
1.9 GFLOPS System Peak
4GB (512MW) Main Memory



Cray Y-MP® System (1988)

First to Sustain Over 1 GFLOPS on Many Applications
333 MFLOPS Processor
2.7 GFLOPS System Peak
2GB (256MW) Main Memory



Cray C90™ System (1991)

First Computer With 1 GFLOPS Processor
1.0 GFLOPS Processor
16 GFLOPS System Peak
8GB (1GW) Main Memory



Cray T3D™ System (1993)

Redefines Massively Parallel Processors (MPP)
150 MFLOPS Alpha 21164 Processors
300 GFLOPS System Peak
Scalable to 2048+ Processors With Global Shared Memory



Cray J90™ System (1994)

Most Popular Supercomputer—400 Sold
200 MFLOPS Processor
6.4 GFLOPS System Peak
8GB (1GW) Main Memory

1988

- Subsidiaries in Korea, India, Finland, Brazil, and Belgium
- Announced the Cray Y-MP system
- 1st Spanish customer (CASA)
- 1st order from India (NCMRWF)
- 1st Cray Y-MP system ordered (NASA AMES)
- Cray-3 project moved to Colorado Springs [CO]
- 1st customer in Korea (KAIST)
- 300th Cray system ships
- Tera moves to Seattle [WA]

1990

- 1st air cooled system announced (Cray Y-MP 2E)
- 1st building in Cray Park at Eagan [MN]
- Corporate Museum opens in Cray Systems Building [CF, WI]
- Announced Cray XMS and Cray ELS systems
- Begin Cray MPP project
- 1st Bell-Perfect award given to Cray Research, Inc.
- Cray Europe established

1992

- Central Weather Bureau (CWB) orders 2 systems [Taiwan]
- 1st Swiss customer (EPFL)
- Cray signs Cray Y-MP EL marketing agreement with DEC
- Announced Cray Y-MP M90 and Cray S-MP superservers
- 1st construction and financial community customers
- 1st Czech Republic order [Prague]
- 32nd Mersenne prime discovered using a Cray-2 system

1994

- 1st Cray shipment to China (NMC) [Beijing]
- Cray T3D system shipped to JPL (Jet Propulsion Lab) [CA]
- 1st Cray T90 system shipment to Canada
- 1st order from Poland (PCSS)
- 1st sales office in Wisconsin opens
- CRI acquires Savant Systems
- Cray T3D MPP system ordered by Chrysler [MI]
- CRI acquires Minnesota Supercomputing Center
- 33rd Mersenne prime discovered using a Cray C90 system

1996

- Ford Motor Co. orders multiple Cray systems
- Cray sells PC facility to Johnson Matthey [WI]
- Cray sells Machining Center to Riverside Machine [WI]
- 34th Mersenne prime discovered using a Cray T94 system
- SGI purchases Cray Research, Inc.

2000

- Tera purchases Cray and forms Cray Inc.

2001

- 1st Cray SV1e CPU shipment to ARSC (Arctic Region Supercomputer Center)
- 1st Cray SV1ex memory shipment to ARSC [AK]
- 1st Cray MTA-2 system shipment to ENRI [Japan]

2003

- 1st international installation of a commercial Cray X1 system
- 1st commercial Cray X1 system customer (Boeing)
- Installed two 3.2 tera flop systems (largest ever installed by Cray)

1989

- Cray Blitz program beats chess grand master
- NCAR breaks 1 GFLOPS barrier using Cray Y-MP system
- 1st Finnish customer (VTKK)
- 1st pharmaceutical customers (Eli Lilly and Monsanto)
- Seymour Cray leaves Cray Research and forms CCC [CO]
- Cray-1 S/N 1 system retired and returned to CF [WI]
- Cray-1 S/N 14 system displayed at Smithsonian Institute [DC]

1991

- 100th Cray Y-MP system shipped (PFIZER)
- Announced Cray Y-MP 8 and Cray Y-MP 4E systems
- Announced Cray Y-MP EL and Cray C-90 systems
- CRI acquires Floating Point Systems
- Formed Cray Customer Service Division

1993

- Cray Y-MP C90 system installed at PSC [PA]
- Formed new subsidiary: Cray Research Superservers
- Announced Cray EL92 and Cray EL98 systems
- 1st South African order (Weather Bureau)
- 1st Southeast Asia order [Malaysia]
- Announced Cray T3D MPP system
- 1st Wall Street customer (Merrill Lynch)

1995

- 1st order from Russia
- Learjet acquires a Cray
- 1st orders from Wales and Morocco
- 1st Cray T90 system shipment (Honda) [Japan]
- DOE orders 2 Cray J90 systems
- Cluster of Cray systems ordered by NASA Goddard [MD]
- Announced Cray T3E system

1998

- Tera's MTA-1 system accepted (SDSC)
- SGI sells Board Assembly facility to Celestica [WI]
- SGI sells IC Fab facility to USTC [WI]

1999

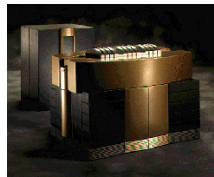
- Cray becomes a separate business unit of SGI

2002

- 1st large Cray MTA-2 system shipment (NRL)
- 1st Cray SX-6 system installed (U of Toronto)
- Cray Inc. joins Russell 3000 index
- Signs \$90 million "Red Storm" contract with SNL [NM]
- 1st two early production Cray X1 systems to NCS [MN]
- 1st production Cray X1 system to an undisclosed customer

2004

- Cray purchases OcticaBay Systems Corporation
- 1st Cray XD1 system shipment (Simon Fraser University)
- Cray Red Storm system shipment to Sandia (DOE National Nuclear Security Administration) [NM]
- 1st Cray XT3 system shipment (Pittsburgh Supercomputer Center)
- 1st Cray X1E system shipment (ICM)
- Shipped largest Cray X1 system to ORNL NLCF



Cray T90™ System (1994)

First Wireless Supercomputer
1.8 GFLOPS Processor
57.6 GFLOPS System Peak
16GB (2GW) Main Memory



Cray T3E™ System (1996)

World's Most Successful MPP
900-1350 MFLOPS Alpha 21264 Processors
2.8 TFLOPS System Peak With Up to 4TB Memory
Demonstrates New Levels of System Scalability



Cray SV1™ (1998)Cray SV1ex™ (2001) Systems

Innovations in Vector Cache, MSP, and Integrated SSD
12/2.0 GFLOP Processors
38/64 GFLOPS System Nodes
32GB (4GW) Main Memory and
224GB Solid State Disk (SSD) in SV1ex



Tera MTA-1™ System (1998)

Large Scale Multithreaded Supercomputer
128 Hardware Threads
256GB Maximum Main Memory



Cray X1™ System (2002)

Combines Vector Processing With Scalable MPP Architecture
12.8 GFLOPS Processors
Scalable to 4096 With Global Shared Memory
819 GFLOPS and 256GB Memory per Chassis
51 TFLOPS System Peak With Up to 64TB Memory



Cray XD1™ System (2004)

AMD Opteron-Based Entry Level System
4.8 GFLOPS Processors
691 GFLOPS per Cabinet Peak
96 GB Memory
Scalable to 100s of Compute Nodes



Cray XT3™ System (2004)

Highly Scalable MPP Architecture
4.8 GFLOPS Processors
460 GFLOPS per Cabinet Peak
96-768 GB Memory
Scalable to 10s of 1000s of processors