Algorithms: <b>8, 15, 21, 24</b> Applications programs: 8 ARPANET: <b>5,</b> 10	Design, high-performance computers: 21 Digital libraries and archives: 8 Digital libraries, Global Digital Library: 8
Artificial intelligence: 8, 26	g ,
•	Education: 8, 10, 13
Bardon/Curtis Report: 9	EDUCOM, Networking and Telecommunications
Bibliographic services: 10	Task Force: 10
Black hole: 5, 6	Electronic
Bulletin boards: 4, 6, 10, 11, 12	information technologies: 4, 5, 6 Journals: 6
California Institute of Technology: 29	mail: 6, 10, 12
Central processing units (CPU): 22,24, 30	Executive Office of the President: 11
Committee on Science, Engineering, and Public Policy	
(COSEPUP): 9	Federal Coordinating Council for Science, Engineering,
Computational science: 21, 22	and Technology (FCCSET): 1, 3
Computer	Federal Government
Alliant: 6	budget and funding: 12, 17, 18, 19, 20, 22
Apple Macintosh: 31	funding, individual research: 12, 19
connection machines: 31	policy: 12, 16, 20, 23, 26
Control Data ETA: 22	procurement regulations: 16
Control Data 6600: 26	research and development (R&D): 3, 4, 5, 8, 11, 15, 16,
Cray 1: 31	17, 18, 24,25, 26, 32
Cray X-MP computer: 7, <b>19</b>	responsibilities, 11, 13, 15
data flow processors: 31	Federal High Performance Computing and Communication
design: 22, 28, 29, 30, 32	Program (HPCC): 2, 18
fuzzy logic: 31	Fifth Generation Project: 2
hypercube: 29, 31	Floating point operations (FLOPS): 31
IBM Stretch: 27	Florida State University (FSU): 7, 18
IBM 3090: 30	Fluid flow: 6
IBM 3090 computer: 6	Tidla How. O
IBM 360: 27	Gallium Arsenide: 28-29
manufacture: 22	
	Highdefinition video: 6
minisupercomputer: 22, 31 neural nets: 22, 31	High-performance computer, definition: 29, 30, 31
	High Performance Computing Initiative: 11, 16, 23, 24
NEXT: 31	High-speed digital communication network: 2, 4
parallel: 22, 30	Holograms: 8
specialized: 8	House Committee on Science, Space, and Technology: 1
vector processing: 30	Human genome database: 5, 8, 11, 12
workstations: 4, 31	Human resources: 21
Computer architecture: 8, 27, 30	Hurricane or typhoon: 5, 7
Computer conferences: 6, 10	Hypermedia: 6
Computer models and simulation: 2,4, 5, 8, 25	
Computer performance: 31-32	Industrial cooperation: 23
peak speed: 31	Industry
solution speed: 32	computer: 2, 4, 8, 17, 23
Computer science and engineering: 21	telecommunications: 4
Computing	Information, technologies and infrastructure: 4,6, 12
distributed: 17	Infrastructure for research and education: 6
specialized: 19	Institute of Electrical and Electronics Engineers: 3
Cornell Them-y Center: 6	Intellectual property protection: 12
Cornell University: 22	
Cycle shops: 24	Josephson Junction: 28-29
	Knowbots: 26
Data security: 13	Kilowoots. 20
Databases: 2,4, 5, 8, lo, 11, 26	Langenberg, Donald: 9
Defense Advanced Research Projects Agency (DARPA):	Languages, computer: 5, 15
2, 15, 31	Lax, Peter: 9
Defense procurement: 16	Lax Report: 9, 20
Department of Commerce: 18	Libraries: 10
Department of Defense: 15, 18	Logic: 5
Department of Education: 10	Logic. J
Department of Energy: 15, 18, 26	Multimedia: 6

```
National Academy of Sciences (NAS): 9, 11
                                                                       global climate change: 5
 National Aeronautics and Space Administration (NASA),
                                                                        "Grand Challenges," 11
       7, 16, 18
                                                                       instruments: 8
 National Association of State Universities and Land
                                                                       physics: 15
       Grant Colleges (NASULGC): 9-10
                                                                     Rice University: 29
 National Center for Atmospheric Research (NCAR): 7, 15, 18,
                                                                     Science, computational: 15, 16,23
 National Center for Supercomputing Applications (NCSA): 6
                                                                    Scientific and engineering applications: 4
 National Institute of Science and Technology (NIST): 16
                                                                    Scientific instruments
 National Laboratories
                                                                       method: 5, 24
   Livermore: 16, 18
                                                                       oceanographic probes: 8
   Los Alamos: 16, 18
                                                                       satellites: 8
 National Science Foundation (NSF): 14, 15, 27
                                                                       seismographs: 8
   Advanced Scientific Computing Division: 22
                                                                    Search engines: 10
   Computer Facilities Program: 5, 16
                                                                    Senate Committee on Commerce and Transportation: 1
   supercomputing centers: 8, 12, 13, 15, 18, 19, 20, 22, 23, 24
                                                                    Silicon chips: 5
National Security Agency: 18
                                                                    Silicon Graphics workstation: 6
National Superspeed Computer Project: 2
                                                                    Software: 2,4,6,7,8, 10, 15, 17,21,23,24, 30,32
Network
                                                                      public domain, 8
   architecture: 10
                                                                    Standards and protocols: 9, 11
   BITNET: 10
                                                                    State supercomputing centers: 20
  high-speed broadband: 21
                                                                    Supercomputer
   Internet: 10
                                                                      definition: 30
   national: 10, 22
                                                                      leading edge: 22
  National Research and Educational Network (NREN): 1,7,8,
                                                                    Superconductivity: 28-29
       10, 13,24,26
                                                                    Syracuse University: 29
  National Science Foundation (NSF): 1,5,6, 8
  NSFNET: 6, 12, 17
                                                                    Technologies
  State and local: 13
                                                                      automated chip design: 29
  switched wide-area digital: 12
                                                                      chip foundaries: 29
  universal: 4, 5, 12
                                                                      computer: 15
                                                                      data storage: 5,24
Office of Science and Technology Policy (OSTP): 1, 11, 17
                                                                      gallium arsenide: 5, 28
                                                                      integrated circuits (IC): 27
Parallel computers (parallelism), 8
                                                                      microelectronics: 27
Pittsburg Supercomputer Center: 29
                                                                      visual: 26
Policy
                                                                    Technology, leading edge: 15
  industrial: 3
                                                                    Typhoon Hope: 7
  information: 12, 13
  science: 12
                                                                    U.S. Constitution, First Amendment: 12
Princeton University: 19, 22
                                                                    University of California, San Diego: 22,29
Privacy: 12
                                                                    University of Illinois, Champaign-Urbana: 22, 29
Research
  applied: 15
                                                                    Virtual reality: 8, 26
  atmospheric chemistry: 19
  basic: 15
                                                                    Wavefront Technologies Graphic Software: 6
  biomedical: 19
                                                                   World War II: 5,26
  fluid dynamics: 19
```