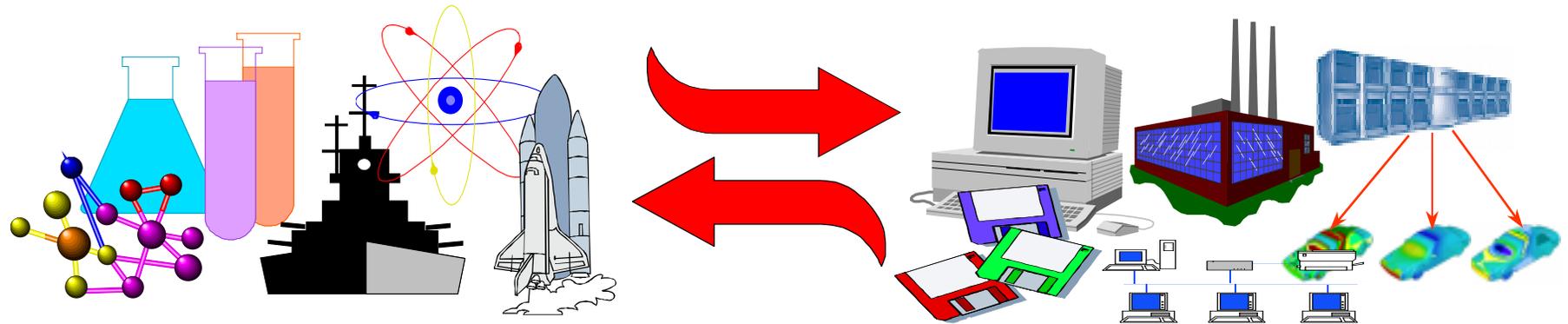

RCI, Ltd

1997-98 AITS INDUSTRY PROGRAM



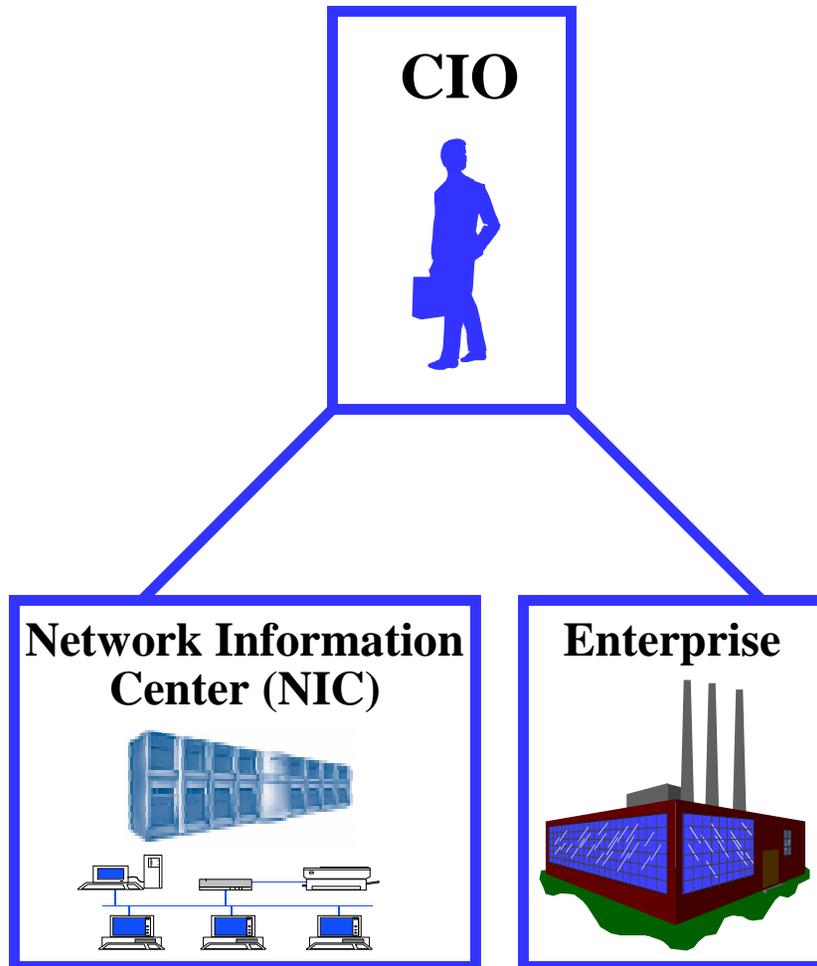
Integrating Scientific and
Technical Computing with
Traditional Information
Systems for Advanced
Information Technology
Solutions (AITS) in the
Next Decade

LEADING-EDGE IDEAS



As the technologies of scientific/technical computing and traditional information systems converge, a new era of information technology is emerging.

The New Era of Information Technology



High performance computing (HPC) is being impacted by:

- Network computing;
- Reduced government support at the high end;
- Microprocessor economics;
- Worldwide competition;
- Dynamic economic forces;
- Changing user community;
- Broadening use of advanced information technology solutions (AITS):
- Dual-use technology availability;
- Technology-transfer realities;
- MetaCenter viability;
- Information-to-knowledge;
- New application drivers like database mining and real-time solutions.



RCI has the background and credibility to assist strategic decision makers by:

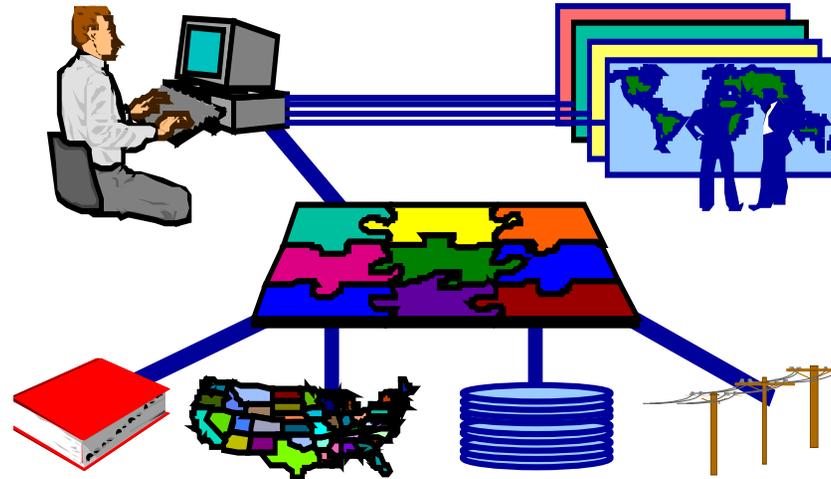
- Providing information, insight and perspective on:
 - **International** market and industry dynamics of high-performance computing (HPC) through RCI's North American, European, and Far Eastern programs;
 - The implementation of advanced information technology solutions (AITS);
 - The integration of scientific/technical computing with traditional information systems;
 - The implementation of HPCC dual-use technologies;
- Supporting programs that will give the United States a competitive advantage in high performance computing and communications (HPCC);
- Facilitating technology partnering.



INTRODUCTION

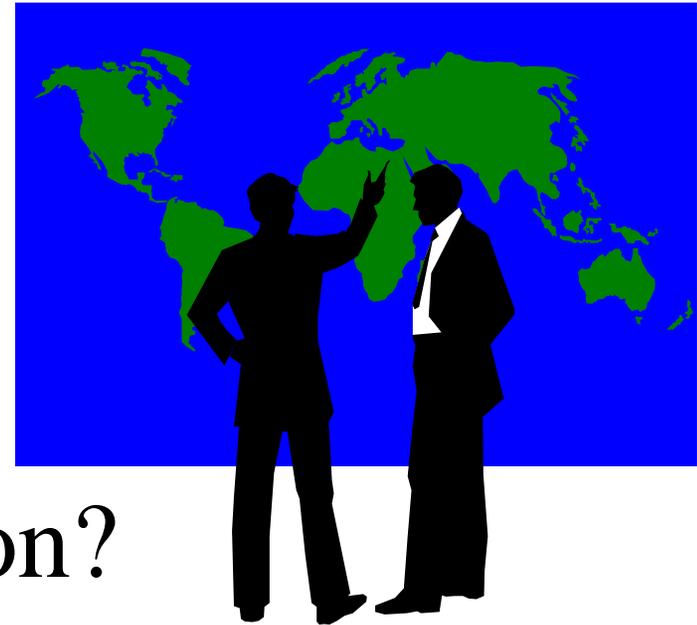
What is RCI?

RCI is an international consortium of technical and commercial users and suppliers of advanced information technology solutions (AITS) that:



- leverages the collective resources of a group to accomplish objectives beyond the means of the individual members.
- discusses the competitive advantages of high performance computing and communications.
- targets usage, technology, trends, marketplace issues and opportunities that influence the direction of worldwide high performance computing.
- provides a forum for the free exchange of ideas.

MISSION



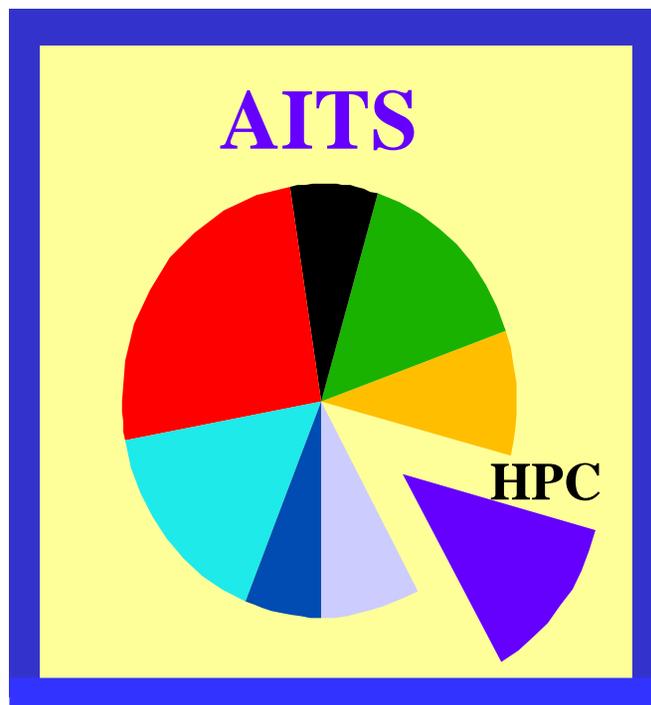
What is RCI's Mission?

RCI, Ltd. encourages cooperation and facilitates communication among its worldwide members to help them more fully realize the benefits of advanced information technology systems (AITS). RCI addresses member-selected topics through its research, publications and forums in order to meet the AITS user's needs and increase the vendor's understanding of those needs.

LEADING-EDGE IDEAS



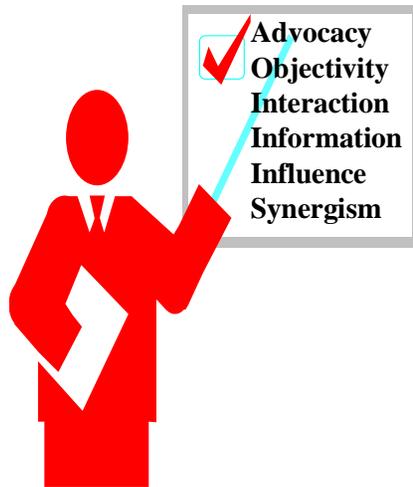
Since its founding eight years ago, RCI created a foundation and momentum for HPC and supported the transition from SC to HPC to AITS.



High Performance Computing (HPC) is a piece of the Advanced Information Technology Solutions (AITS) pie.

- RCI authored the HPC concept in 1989
- RCI expanded HPC to AITS in 1995

MEMBER BENEFITS



As a “Super User Group,” RCI provides:

- ✓ • User advocacy
- ✓ • Non-competitive, non-commercial objectivity
- ✓ • Interaction with other leading-edge users
- ✓ • Information about and analysis of new and emerging technologies
- ✓ • Ability to influence the development of technology through unique access to vendors
- ✓ • Information about emerging technologies and applications and non-traditional computing solutions
- ✓ • Synergism that cannot be found anywhere else!

MEMBER BENEFITS



All Members Benefit from:

- **Financial and technical leverage**
- **Timely access to newsworthy activities and events**
- **Proper exposure of issues to those who can make a difference**
- **Access to industry experts' and members' worldwide perspective**
- **Increased perspective through strategic alliances**
- **Opportunity to participate in technology transfer/industrial partnering**



User Benefits

- Awareness of current and planned technology developments
- Sharing of operational experiences
- Direct access to senior management of vendors and service providers

Supplier/Vendor Benefits

- Increased awareness of and early identification of market trends
- Forum for airing issues and influencing external groups
- Access to predictive market data analysis
- Direct contact with senior user representatives for needs analysis

PRODUCTS AND SERVICES



RCI does this through:



- Management Symposia: North America, Europe and Japan/Pacific Rim/Asia
- Annual Member Executive Conferences
- Industry Executive Boards
- Special Interest Group Meetings
- Qualitative, Timely Research Reports and Studies
- Topical Management White Papers
- Industry Spokesperson Service
- Newsletters
- Telephone Inquiry Service
- Member Information Bulletin

PRODUCTS AND SERVICES



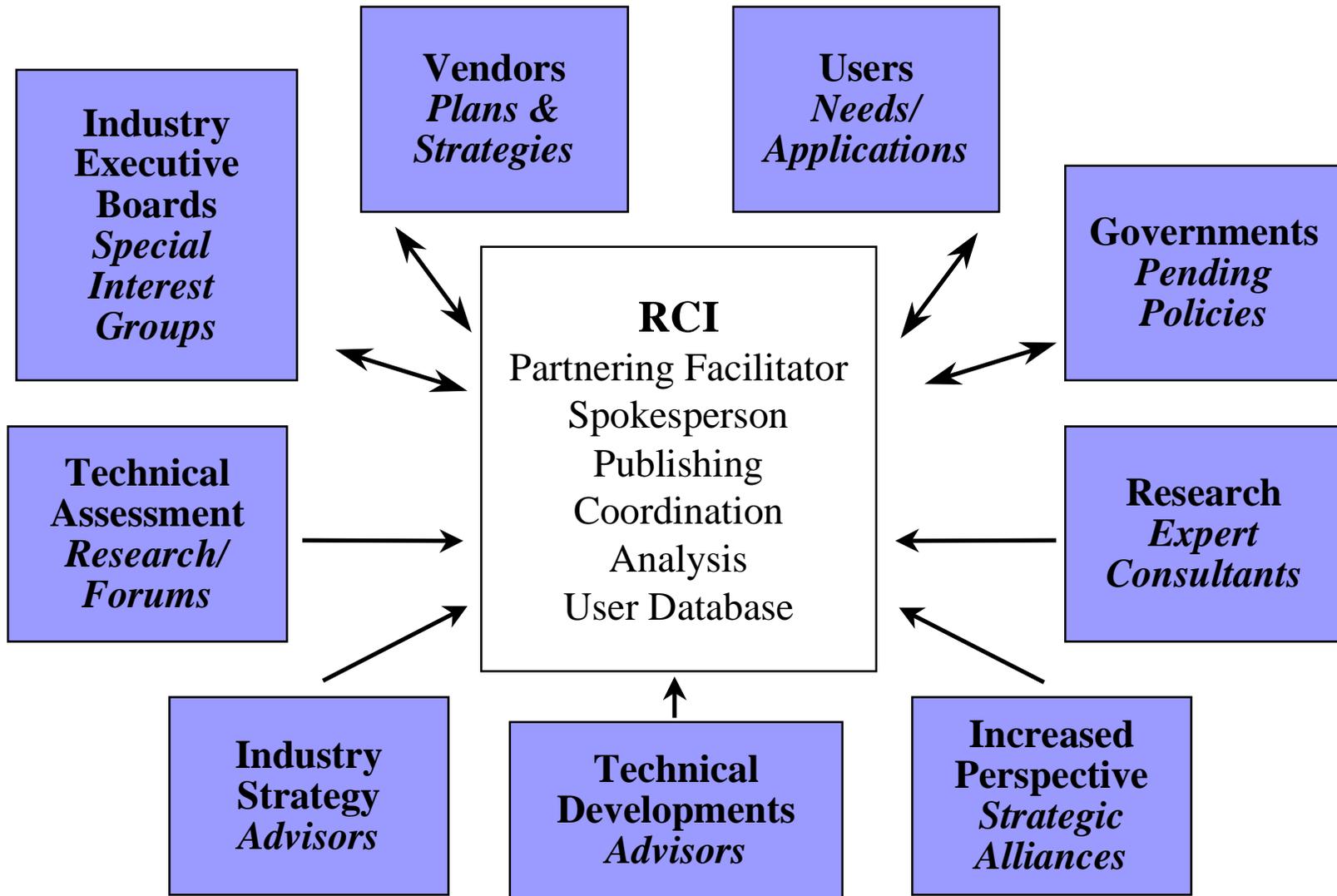
RCI provides high-quality,
value-added information

**QUALITATIVE,
PREDICTIVE
ANALYSIS**

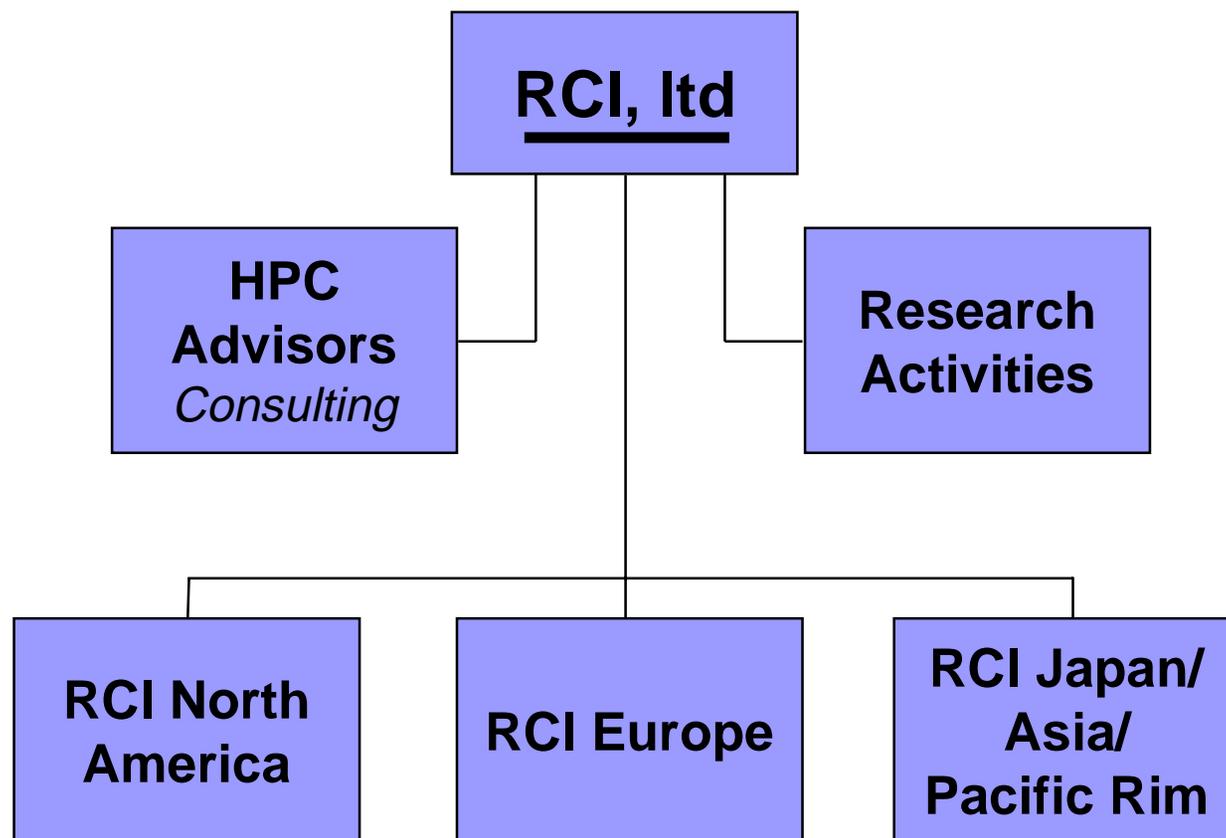
**VALUE ADDED: Subject matter experts,
white papers, research reports/studies**

**QUANTITATIVE,
DESCRIPTIVE
INFORMATION**

RCI FUNCTIONAL ORGANIZATION



ORGANIZATION



RESEARCH REPORT/STUDY TOPICS



MARKET REALITIES

The Worldwide Market for HPC: Europe, North America, and Japan/Asia/Pacific Rim
The Economics of HPC
From Research Labs to Advanced HPC Applications: Technology Transfer and Acquisition
Trends in Systems Integration and Outsourcing in the Scientific and Technical Computing Market

HARDWARE

High Performance Workstations
Impact of New Technologies on HPC
Departmental Supercomputing
Specialized Parallel Processing

SYSTEMS

Visualization: Issues, Techniques, Technology and Trends
High Performance Networking
HPC Center Management
Open Systems Impact on HPC
In Pursuit of Performance: Scalable Parallel Processing
Trends in High Performance Networking and Worldwide Information Highway

SOFTWARE & APPLICATIONS

HPC Software Industry
Trends in Commercial HPC Applications
Emerging HPC Applications
New Software Technologies and Products for HPC
Matching Applications to Architectures

CURRENT MEMBERS



- **Alabama Supercomputer Authority**
- **ARCO**
- **Arctic Region Supercomputing Center**
- **AT&T-BCS, Government/Defense Markets**
- **Bennett Company**
- **CASPUR**
- **CILEA**
- **CINECA**
- **C.I.R.A. (Italy)**
- **Concurrent Technologies Corporation**
- **Cray Research, a Silicon Graphics company**
- **Digital Equipment Corporation**
- **ENEA (Italy)**
- **Electronic Data Systems**
- **Environment Canada (Canada)**
- **Essential Communications**
- **Farnborough Supercomputing Centre (U.K.)**

CURRENT MEMBERS



- **George Mason University**
- **GigaLabs**
- **Hewlett-Packard Company**
- **Hewlett-Packard Company/Convex Division**
- **Hitachi, Ltd.**
- **HNSX Supercomputers, Inc.**
- **IBM Corporation**
- **IDRIS/CNRS (France)**
- **Information Technology Solutions, Inc.**
- **Monsanto Company**
- **NASA Ames Research Center**
- **NASA George C. Marshall Space Flight Center**
- **NASA Goddard Space Flight Center**
- **NASA Headquarters**
- **NASA Jet Propulsion Laboratory**
- **NASA Langley Research Center**
- **NASA Lewis Research Center**

CURRENT MEMBERS



- **National Institutes of Health**
- **National Meteorological Service**
- **NEC Corporation**
- **NEC European Supercomputer Systems (ESS)**
- **National Oceanic & Atmospheric Administration (NOAA)**
- **Nichols InfoFed**
- **Nippon Telegraph and Telephone Corporation**
- **Northeast Parallel Architectures Center (NPAC) at Syracuse University**
- **Northrop Grumman Data Systems**
- **Oak Ridge National Laboratory (ORNL)**
- **ONERA (France)**
- **PAM Systems International - Member of ESI GROUP (France)**
- **Pittsburgh Supercomputing Center**
- **Quadrics Supercomputers World**
- **Raytheon/E-Systems, Inc.**

CURRENT MEMBERS



- **Rome Laboratory, GAFB, NY**
- **Sequent Computer Systems, Inc.**
- **Silicon Graphics, Inc.**
- **Sun Microsystems, Inc.**
- **Tecnopolis CSATA Novus Ortus (Italy)**
- **U.S. Department of Defense**
- **Westinghouse Electric Corporation**

1997 NORTH AMERICAN FORUMS



RCI Member Management Symposium XIX

**“Toward Advanced Information Technology Solutions:
Merging Workstations, Networks and Supercomputers into
the Complete Professional’s Computer Interaction Cycle”**

March 17, 18-19, 1997; Santa Clara, CA

Host: SGI / Cray

RCI 1997 North American Annual Member Executive Conference and Seymour Cray HPC Industry Recognition Awards Banquet

**November 5, 6-7, 1997; McLean Hilton Hotel,
Tysons Corner, Virginia, U.S.A.**

1997 NORTH AMERICAN SPECIAL INDUSTRY GROUP MEETINGS



U.S. Federal Government SIG

**Advancing the Frontiers of Information Technology
Solutions in the U.S. Government**

April 15, 16-17, 1997; Williamsburg, Virginia, U.S.A.

*Co-hosted by High Performance Computing and
Communications Week (HPCC Week)*

Communications/Networking/Multimedia SIG

Hosted by AT&T and GigaLabs

December 10, 11-12, 1997

Radisson Plaza Hotel at Mark Center

Alexandria, Virginia



RCI European Member Management Symposium

**New Organizational and Managerial Strategies
to Leverage Advances in Information Technology**

October 6,7-8, 1997, Frascati, Italy

Hosted by: ENEA

**Sponsored by: QSW, NEC Supercomputing Europe,
and DEC Europe**



Special Interest Groups Address Unique Industry Sector Issues

SIGs currently active

- Aerospace/Aeronautics
- Automotive/Off-Road Vehicle
- Commercial Cross-Industry
- Communications/Networking/Multimedia
- U.S. Federal Market

SIGs currently being formed

- Higher Education and Research
- Environmental
- Systems Integration and Outsourcing
- Petroleum/Energy



Topical RCI Symposia Issues

- **Matching Decision-Support Applications and Resources**
- **Characteristics of Industrial-Strength Parallel Systems**
- **Advanced Strategic HPC: Technology Requirements**
- **European HPCN Projects and the U.S. HPCC Initiative: Comparative Analysis**
- **Critical Role of Independent Software Vendors**
- **Understanding Software Vendor Requirements**
- **Technology Transfer and Management**



Current White Paper Topics

- **Technology Management: A Key to Improved Technology Transfer**
- **Trends in High-Bandwidth Networking**
- **PC Technology, New Architectures and the Market for Large Scale Computing: A 1996 Assessment**
- **The Economics of SPP: A Businessperson's View of Trends in Scalable Systems**
- **NIC Center Management: HPC Operations in the 1990s**
- **What Business Can Learn from the Military**
- **Trends in Systems Integration and Outsourcing**



Represented Membership at:

- Federal Information Processing Council/U.S. Navy Underwater Systems Center Conference
- The Technologic Partners/Merrill Lynch Conference
- Supercomputing Symposium (Canada) '89, '92
- ACM Int'l Conference on Supercomputing '92

Exhibited and Participated at:

- Supercomputing World
- Supercomputing '89, '90, '91, '92, '93, '94, '95, '96
- Supercomputing Europe '89, '90, '91, '92, '93, '94, '95, '96
- Supercomputer '93 (Mannheim, Germany)
- High Performance Computing and Networking (George Washington University)

INDUSTRY SPOKESPERSON SERVICE



Interviews Conducted with:

Business Week

Datamation

Computerworld

Digital Review

EE TIMES

MIS Week

Information Week

Forbes

New York Times

Chippewa Falls Herald

Associated Press

San Francisco Chronicle

City Business

HPCC Week

Scientific American

Data Communications

Government Systems News

Parallelogram International

The Wall Street Journal

St. Paul Pioneer Press

Press Releases & Newsbriefs

Symposia and Research Findings

MEMBERSHIP OPTIONS



Membership Categories

- **Government/Academic Site Associate**
- **Associate**
- **Basic**
- **Subscriber**
- **Sponsor**

MEMBERSHIP OPTIONS



Government/Academic Site Associate

- Attendance at all Worldwide Forums (one representative)
 - Management Symposia
 - Annual Member Executive Conference
- Forum Proceedings
- Two Research Reports/Studies (two copies of each)
- Management White Papers
- Industry Spokesperson Service
- Newsletters
- Cumulative Benefits for Multiple Sites

MEMBERSHIP OPTIONS



Associate

- Attendance at all Worldwide Forums (one representative)
 - Management Symposia
 - Annual Member Executive Conference
- Forum Proceedings
- Management White Papers
- Industry Spokesperson Service
- Newsletters
- Two Research Reports/Studies (two copies of each)

MEMBERSHIP OPTIONS



Basic

- Attendance at all Worldwide Forums (two representatives)
 - Management Symposia
 - Annual Member Executive Conference
- Forum Proceedings
- Option to Present at Symposia
- Three Research Reports/Studies (two copies of each)
- Management White Papers
- Industry Spokesperson Service
- Newsletters

MEMBERSHIP OPTIONS



Subscriber

- Attendance at all Worldwide Forums (four representatives)
 - Management Symposia
 - Annual Member Executive Conference
- Forum Proceedings
- Option to Present at Symposia
- Four Research Reports/Studies (two copies of each)
- Management White Papers
- Newsletters
- One Associate Membership Certificate
- Telephone Inquiry Service

MEMBERSHIP OPTIONS



Sponsor

- Attendance at all Worldwide Forums (six representatives)
 - Management Symposia
 - Annual Member Executive Conference
- Forum Proceedings
- Option to Present at Symposia
- All Research Reports/Studies (three copies of each)
- Management White Papers
- Industry Spokesperson Service
- Newsletters
- Three Associate Membership Certificates
- Telephone Inquiry Service
- Research Instruments Critique
- Annual On-site Member Conference
- Two Days Consulting at RCI
- Invitation to Participate in RCI's Annual Strategic Planning Process

STRATEGIC ALLIANCE PARTNERS



Provide Increased Perspective

- **Northeast Parallel Architectures Center at Syracuse University**
 - **InfoMall model of technology and business partnerships**
 - **Leading developer of information-on-demand technologies and applications**
 - **Extensive technical expertise in parallel computing systems, databases and ATM networks**
- **King Communications Group, Inc.**
 - **Publisher of award-winning business newsletters:**
 - **HPCC Week**
 - **New Technology Week**
 - **The Energy Daily**
 - **Defense Week**
 - **White House Weekly**
 - **Co-sponsor of RCI Special Interest Group Meetings**

STRATEGIC ALLIANCE PARTNERS



Provide Increased Perspective (con'd)

- **The Bennett Company**
 - **Market research and worldwide HPC analysis**

- **Essential Communications**
 - **Worldwide supplier for high bandwidth/performance networking products**
 - **Extensive expertise in applications such as client/server, visual simulation and storage management**

ADVISORY COUNCIL



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