



**Parallel  
Data Mining  
Acceleration  
Engine**

**Dramatic  
Performance  
Acceleration**

**SCIENTIFIC  
COMPUTING ASSOCIATES  
INC.**  
New Haven, CT

**The Company**

Scientific Computing Associates has been known for excellence in very high performance parallel and distributed computing since 1980. It is the leading commercial provider of middleware, technology, and offers training and consulting services for all kinds of high-performance computing on clusters and networks, as well as supercomputers, and more

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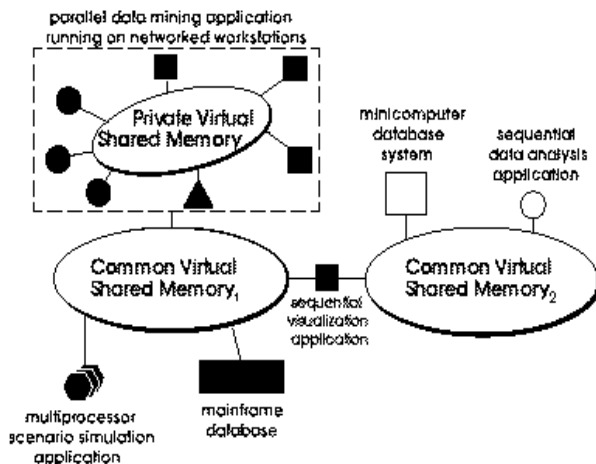
Website: [www.LindaSpaces.com](http://www.LindaSpaces.com)

**Industries Served**

- data mining
- life sciences
- scientific
- research
- engineering
- simulation
- EDA
- automotive
- aerospace
- banking
- brokerage
- insurance
- and more!

## Tuplespace Technology Enables Powerful Clusters

A cluster is made up of a group of CPUs interconnected by a fast network. The nodes of the cluster can range from desktop PCs to clusters or servers on vastly different kinds of computers. You can split a program into multiple tasks running on different CPUs, which synchronize and share data by means of the tuplespace technology. When all the CPUs in a cluster are running, you can take advantage of all the cluster's resources in aggregate to significantly decrease program execution time.



## Parallel Data Mining with Tuplespace Technology

Scientific Computing Associates is known for its expertise and software products in parallel programming. Since the mid-1980's, its tuplespace technology was the basis for the first commercial product to implement Virtual Shared Memory for super-computers and workstation clusters.

The Paradise shared memory model is content-addressable, not address based, making it much easier to build applications and fully utilize hardware capacity. The compiler provides support for both C and Java programming languages.

Applications include data mining, quantum chemistry, bioinformatics, risk analysis, simulations, data mining, portfolio optimization, seismic processing, design automation, ray tracing, engineering analysis and more!

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## Why TupleSpace Solutions?

- Enables computational intensive or performance critical acceleration.
- Usability: Easy to learn and use; compiler based with logically shared associative memory model; offers graphic debugging.
- Productivity: Faster parallel code development, maintenance and results.
- Affordability: Use of existing CPUs, combining cycles, yields complete resource utilization.
- Scalability: No problem too big – just add more computers; no need to redesign applications.
- Portability: Facilitates single source portable parallel codes for all architectures.
- Heterogeneity: Transparent data conversion between architectures.
- Time, cost savings
- Increased productivity
- Improved resource utilization