



## **Parallel Acceleration Engine**

**Run existing  
applications  
in parallel  
on clusters or  
networks**

**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, networks, as well as supercomputers, and more!

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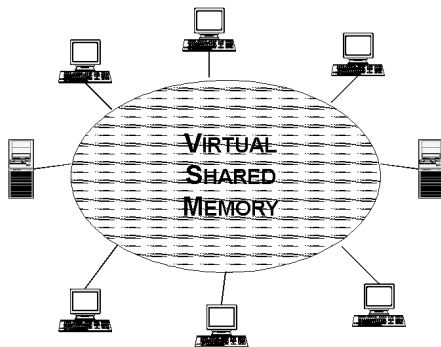
## **Industries Served Include:**

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

## What is Linda?

The original Linda, introduced in the mid-1980s, was the first commercial product to implement a virtual shared memory (VSM), now popularly known as tuplespace technology, for super-computers and workstation clusters. It is used at hundreds of sites worldwide.

Linda applications include quantum chemistry, bioinformatics, risk analysis, simulations, data mining, portfolio optimization, derivatives analysis, financial modeling in analytics, valuation techniques, analysis and interpretation of exposure, and more!



## What is TCP Linda?

TCP Linda is based on TCP, which has emerged over the last decade as the dominant networking protocol. Scientific Computing Associates has taken advantage of TCP's inherent simplicity to provide TCP Linda with a streamlined runtime system, a modular architecture leading to optimizations, enhanced memory management, and use of large data fields. TCP Linda delivers high data transfer rates and overall performance.

TCP Linda's semantics are unchanged; that is, its tuplespace remains content-addressable, not address-based, which makes it easier to build applications and fully utilize hardware capacity.

## Advantages of TCP Linda

- cost-effectiveness
- speed acceleration 10x – 100x
- ease of use, speed of implementation
- streamlined runtime system
- very high transfer rates for large tuples
- outstanding memory management
- optimized for large data fields
- the Tuplescope® feature offers graphic debugging
- rapid deployment