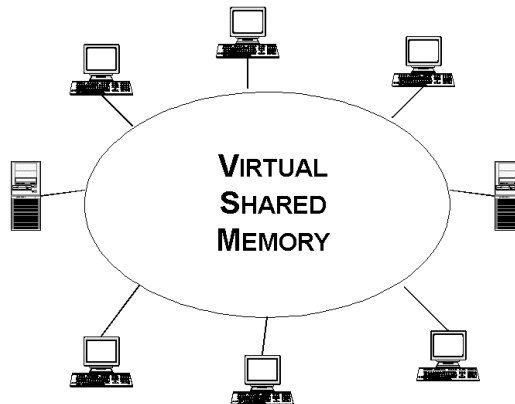


# Supercomputing for Mac OS X Clusters

with **Linda**<sup>®</sup>

## What are Mac clusters?

A cluster is made up of a group of Macs interconnected by a fast network. The nodes of the cluster can be either desktop Macs or servers. Using Linda, you can split a program into multiple tasks running on different Macs, which synchronize and share data by means of the Linda Virtual Shared Memory (VSM). When all the Macs in a cluster are running Mac OS X and Linda, you can take advantage of all the cluster's resources in aggregate to remarkably decrease program execution time.



## What is Linda?

### Scientific Computing Associates' Development Tool for Mac OS X

Linda is a proven industry standard for parallel programming, and is reliable and efficient. Introduced in the mid-1980's, Linda was the first commercial product to implement Virtual Shared Memory (VSM) for supercomputers and workstation clusters. Now it's available for Mac OS X.

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

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

## Why use Linda ?

- **Usability:** Easy to learn and use; compiler based with logically shared associative memory model; the Tuplescope® feature offers graphic debugging.
- **Productivity:** Faster parallel code development and maintenance.
- **Affordability:** Use of existing workstations, 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.

Worldwide distribution of Linda for Mac OS X is from Scientific Computing Associates, New Haven, CT [www.lindaspaces.com](http://www.lindaspaces.com)  
<http://www.lindaspaces.com> Voice 203-777-7772, Fax 203-776-4074.  
Pricing starts at \$1500 for academic and \$5,000 for commercial.