

# Apple and High Performance Computing

Apple Computer invites you to explore the benefits of cluster computing hardware and software solutions for the demanding computational requirements of modern research. Researchers need the most powerful technologies available to analyze the ever-growing volume and complexity of data. However, challenges faced by many researchers include insufficient computing resources to perform analyses, unacceptable performance of analyses and excessive computing administrative burden. The underlying Unix foundation of Mac OS X creates many new technical opportunities for clusters and compute farms using Macintosh hardware.

The seminar will feature Dean Dauger of Dauger Research. Dr. Dauger is the award-winning author of Atom in a Box and Fresnel Diffraction Explorer and co-authored the original, award-winning Kai's Power Tools software. After completing his Ph. D. in physics, he founded Dauger Research, Inc., to bridge the divides between the scientifically and technically complex and the mainstream by making high-performance computation and visualization easy to use and accessible to users.

Dr. Dauger's presentation will include discussion on Pooch, the easiest way to build and use a parallel computer, plus discussion on HPC Software Optimization, as seen at Apple's WWDC 2004.

*Pooch, winner the IEEE Cluster conference's latest "most innovative" award, combines powerful, numerically-intensive parallel-computing clusters with the famed ease-of-use of the Macintosh. Combining the best of cluster and grid computing, Pooch is the only solution that merges a modern graphical user interface with supercomputer-compatible parallel computing. It provides the user interface for the latest incarnation of AppleSeed, a UCLA Physics project begun in 1998. For six years, their software is being used world-wide to transform Macintoshes into easy-to-use, numerically-intensive parallel computers.*

Seminar will include sessions on:

- Pooch and Pooch Pro v1.5.5:
  - + software providing the easiest way to assemble and operate a high-performance parallel computer.
- HPC Software Optimization
- Cluster Technology Update

Solutions we'll feature:

Pooch v1.5.5 & Pooch Pro

Mac OS X Server (Tiger)

Xserve / Xserve RAID

Xsan

Xgrid

Xcode

Admission is FREE.

SEATS ARE LIMITED, SO REGISTER TODAY.

**Wednesday, December 1, 1:00pm – 4:00pm (confirmed)**

**The University of Texas at Dallas**

Erik Jonsson School of Engineering and Computer Science

Main Lecture Hall (first floor)

Dallas, TX



Links to a campus map and Directions.

<http://www.utdallas.edu/campusmap.html>

<http://www.utdallas.edu/directions.html>

Registration: <http://www.seminars.apple.com/goToEvent.html?id=31809>