WELCOME

Berkeley NOW Project
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Retreat

David Culler

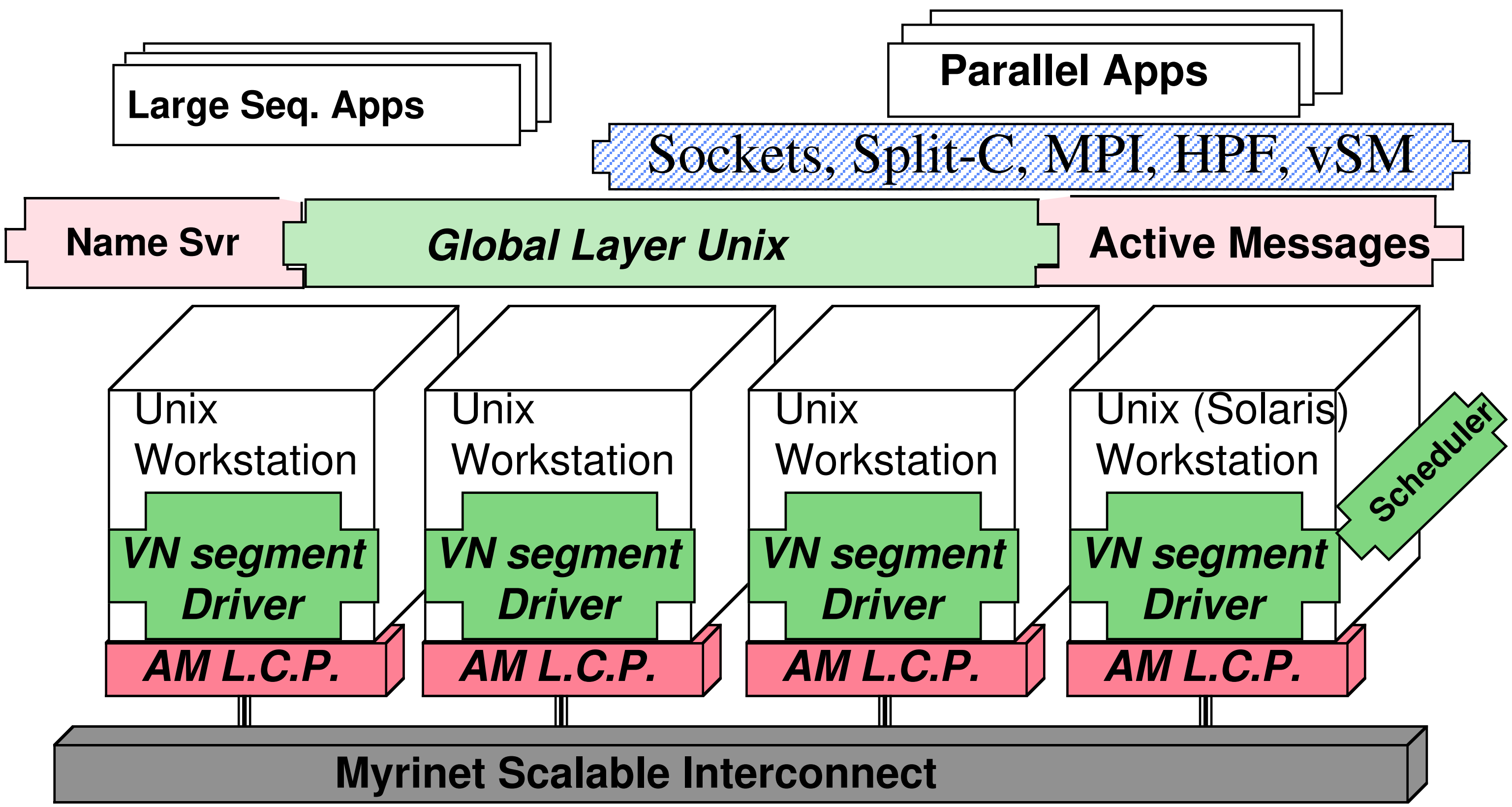
Tom Anderson

Dave Patterson

Recall: Goals of the Project

- **Fundamental change in how we design large-scale computing systems**
  - snap together commodity components
  - self-managing, self-tuning, highly available
- **Make the "killer network" real**
  - realize the potential of emerging hardware technology
  - and push its effect through the rest of the system
- **Integrated system on a building-wide scale**
  - pool of resources (proc, disk mem)
  - remote processor and memory closer than local disk
  - federation of systems with local and global role
- **The right way to build internet services**

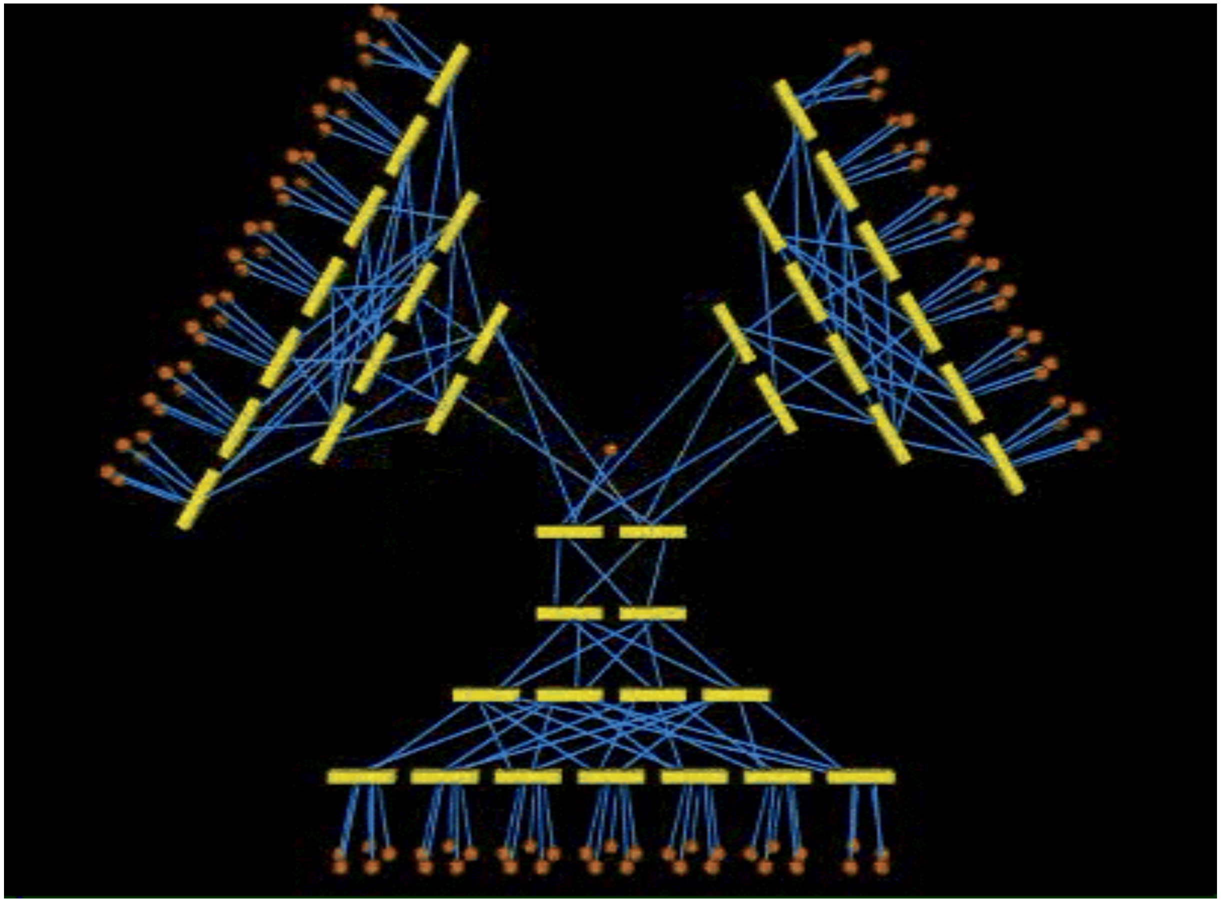
NOW Software Components

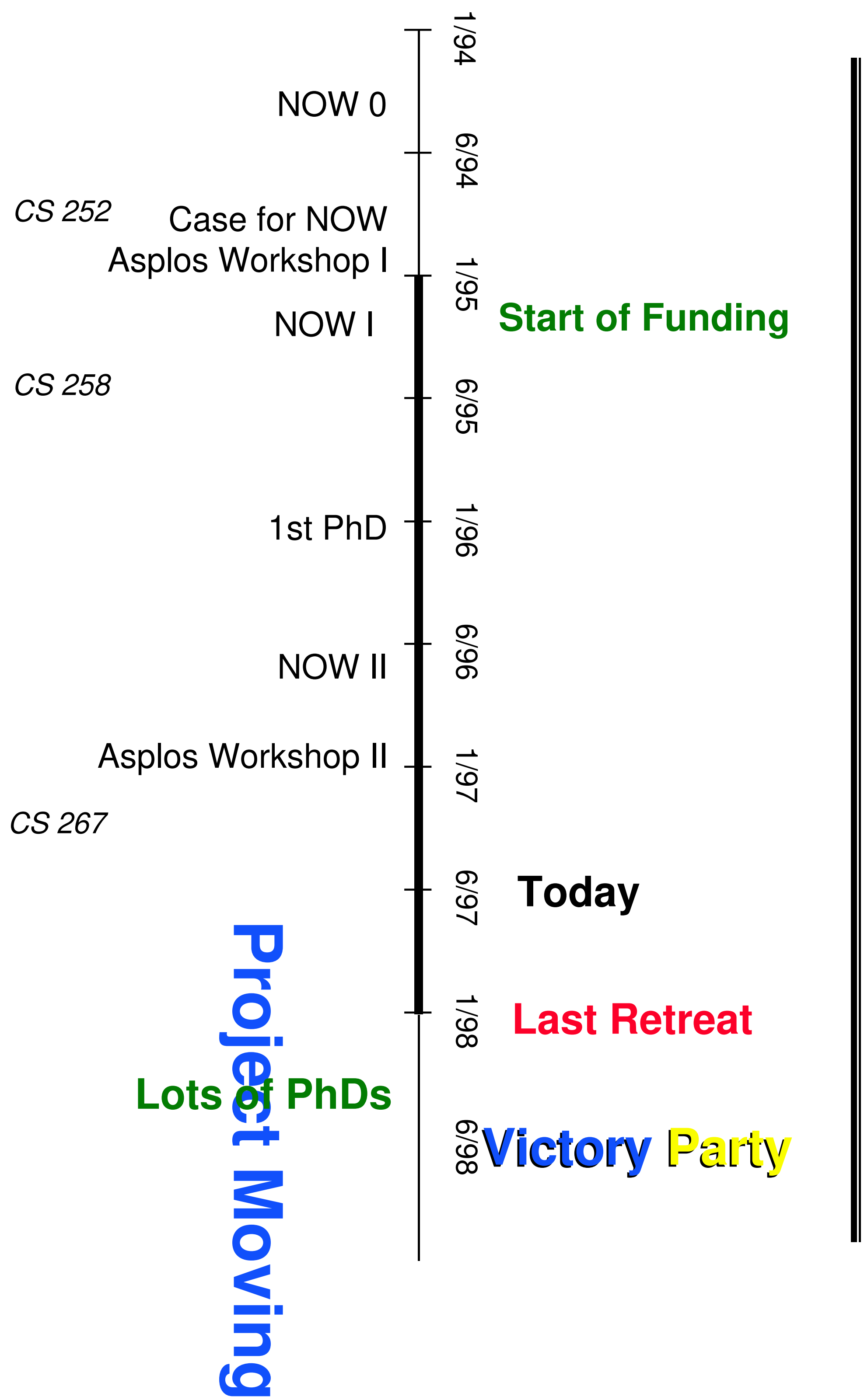


Exciting Time

- 100 UltraSparc Cluster Fully Operational
  – stress tested with users across campus and outside
- Spectrum of prog. models on Active Msgs
  – Split-C, MPI, HPF, SVM
- Several new applications, including Distill Proxy
- AM_2 with Virtual Networks, Auto Map. in full use
- Scalability of T3D with better node perf. on NAS
- TOP500: 10 Gflops LINPACK on 100 proc
- Continued World Record disk-to-disk sort lead
- Implicit cosheduling working, proportional sched.
- Components of XFS_2 based on Teapot
- CLUMPS multiprotocol AM with Mutliple NICs
- WebFS + microbrowser

Rendering of the NOW network

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NOW 0
CS 252
Case for NOW
Asplos Workshop I
NOW I
CS 258
1st PhD
NOW II
Asplos Workshop II
CS 267
Lots of PhDs
Project Moving
Start of Funding
Today
Last Retreat
Victory Party

People Moving On Too

- Steve Rodriguez -> SMCC
- Cedric Krumbein –> Microsoft
- Tom Anderson –> Univ. of Washington
- look forward to many more

Retreat Agenda