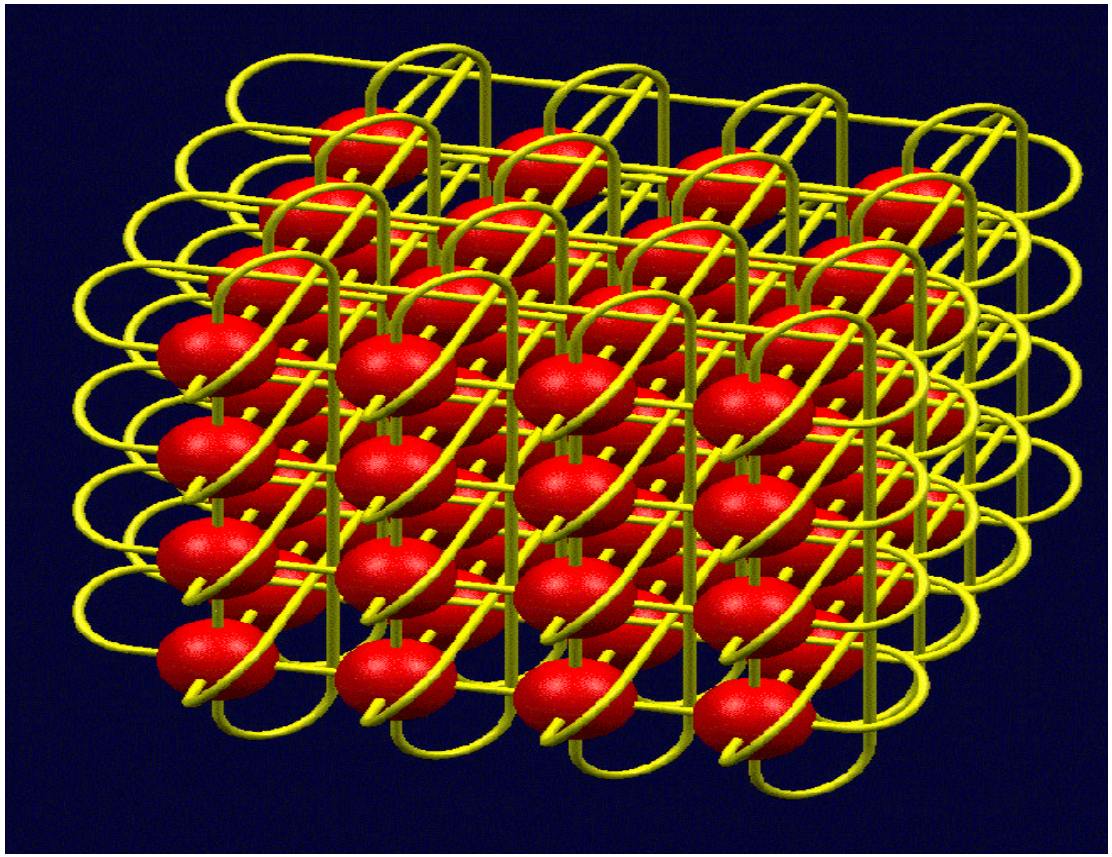
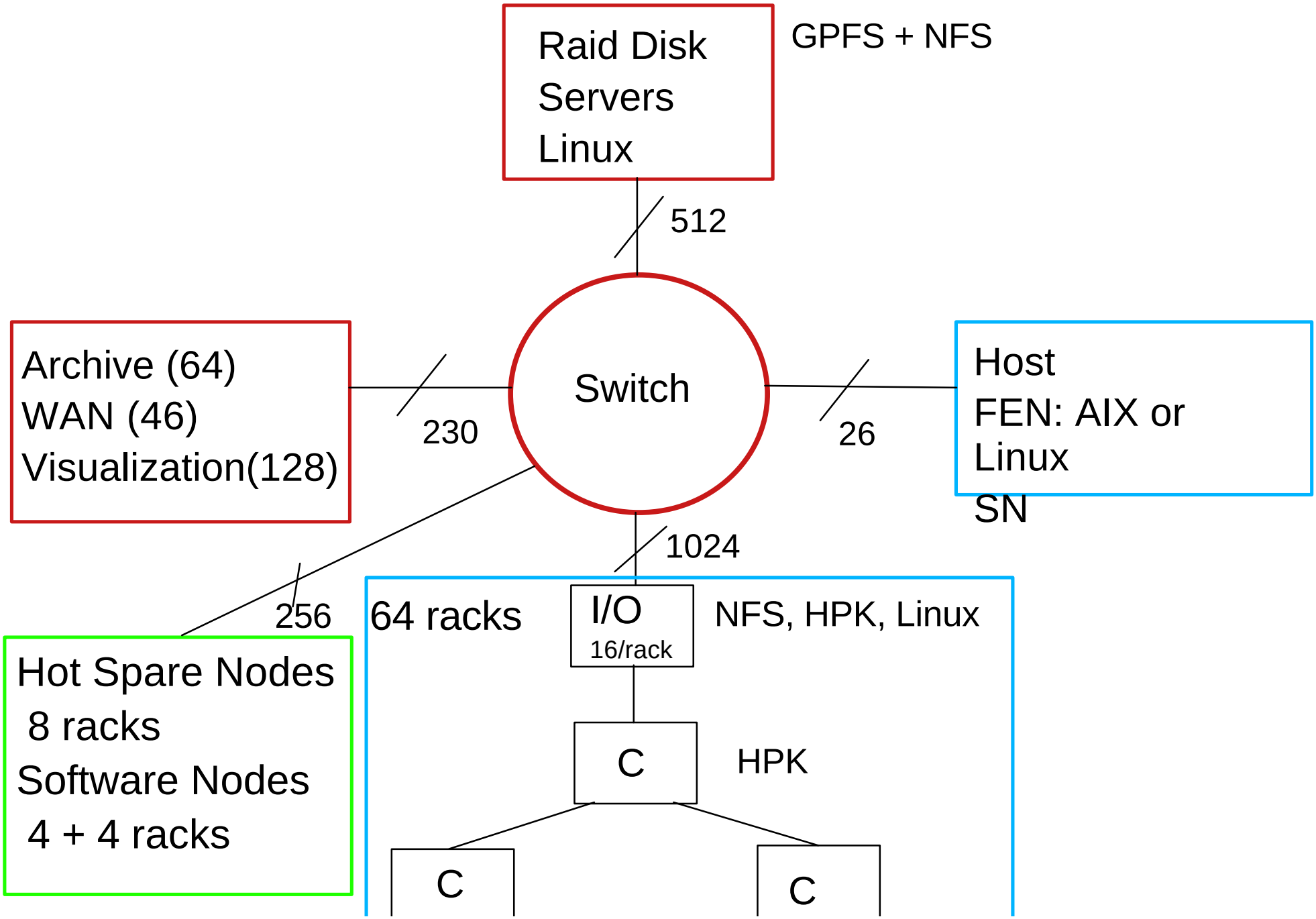
Blue Gene/L

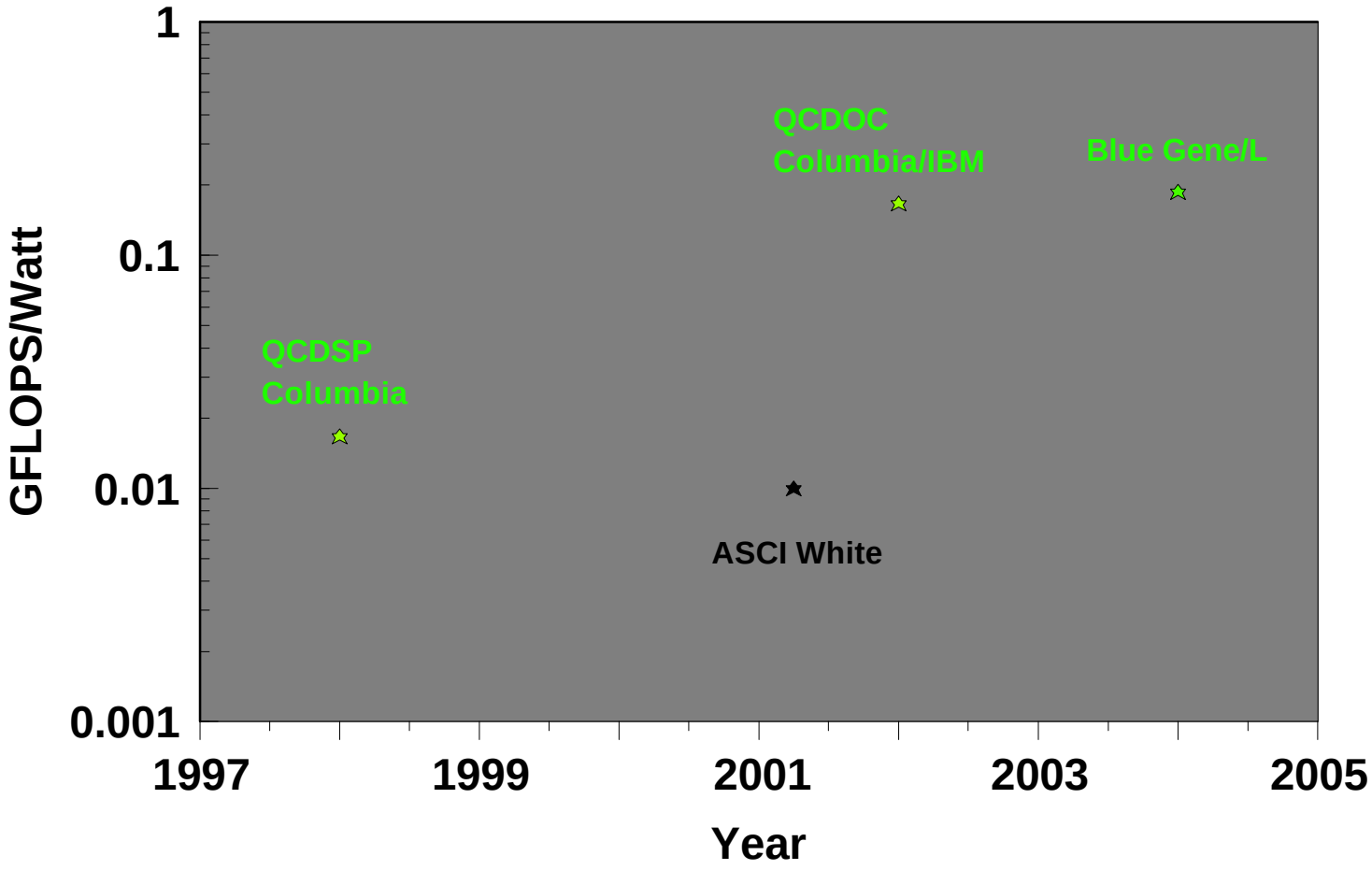

Los Alamos
Sandia
NNSA
National Nuclear Security Administration
AsCI
Advanced Simulation
and Computing
Lawrence Livermore



Blue Gene/L System/Host Overview



Supercomputer Power Efficiencies

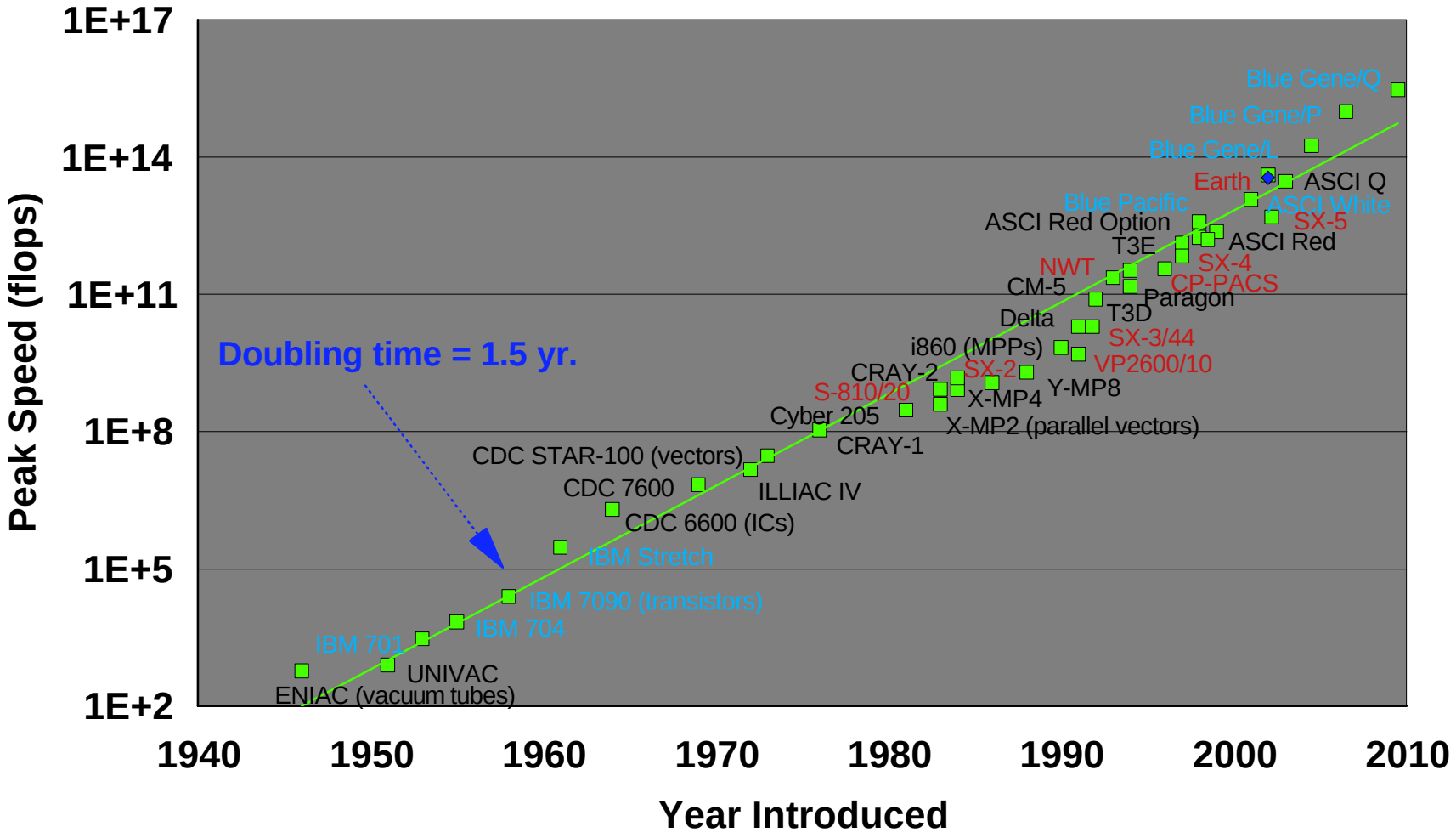


BG/L Design Status

- VHDL
  - complete
- Synthesis and Timing
  - ongoing
- Design
  - Bug fixes mostly.
  - Some diagnostics being added
- Verification
  - All dedicated testbenches operational

    Torus, Tree, Memory System
  - Chip and System tests are ongoing
- Packaging
  - on track, not on critical path

Supercomputer Peak Performance



Blue Gene/L Partners

- Joint Partnership between IBM and Tri-Lab (Lawrence Livermore, Los Alamos, Sandia) ASCI Community.

IBM Collaborations:

- Rochester (Tom Liebsch)
- MD (Charlie Johnson, Andy Schram)

External Collaborations:

- Boston University (Claudio Rebbi)
- Caltech (Thomas Sterling)
- Columbia University (Norman Christ, Bruce Berne)
- National Center for Atmospheric Research (Bernard T. O'Lear)
- Oak Ridge National Lab (Thomas Zacharia)
- Sandia National Lab (Robert Leland)
- San Diego Supercomputing Center (Wayne Pfeiffer)
- Technical University of Vienna (Christoph Ueberhuber)
- Trinity College Dublin (James Sexton)
- Universidad Politecnica de Valencia (Jose Duato)
- University of Edinburgh (Anthony Kennedy)
- University of Maryland (James Drake)