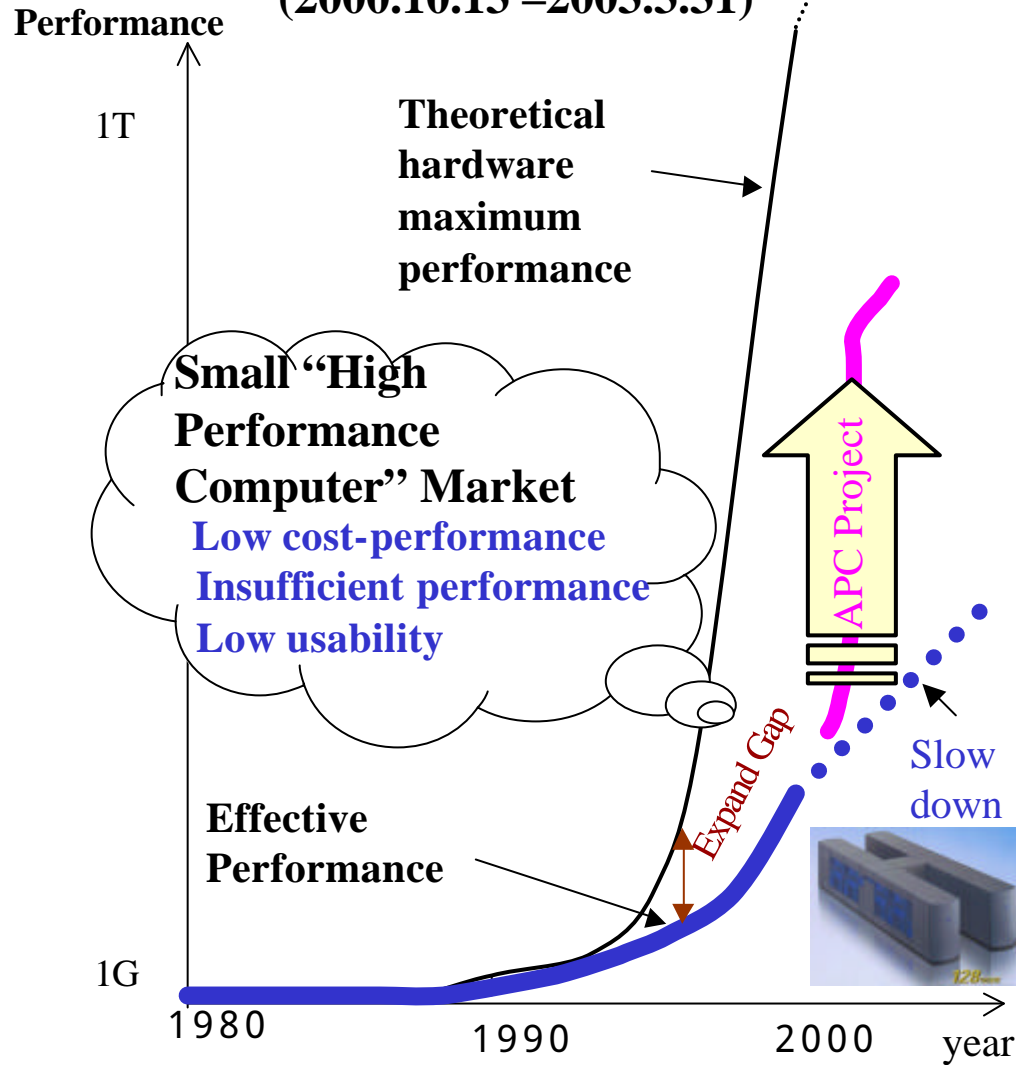


# MITI (NEDO) Advanced Parallelizing Compiler Technology Project

Waseda, Fujitsu, Hitachi, ETL, JIPDEC  
(2000.10.13 – 2003.3.31)



Theoretical maximum performance vs. Effective performance of HPC

**Background and Problems**  
 Adoption of parallel processing as a core technology on PC to HPC  
 Increase of importance of software on IT  
 Need for improvement of cost-performance and usability

**Contents of Research and Development**  
 R & D of advanced parallelizing compiler  
 Multigrain, Data localization, Overhead hiding  
 R & D of Performance evaluation technology for parallelizing compilers

**Goal:** Double the effective performance

**Ripple Effect**  
 Development of competitive next generation PC and HPC  
 Putting the innovative automatic parallelizing compiler technology to practical use  
 Development and market acquisition of future single-chip multiprocessors  
 Boosting R&D in the following many fields:  
 IT, Bio-tech., Device, Earth environment, Next-generation VLSI design, Financial engineering, Weather forecast, New clean energy, Space development, Automobile, Electric Commerce, etc

