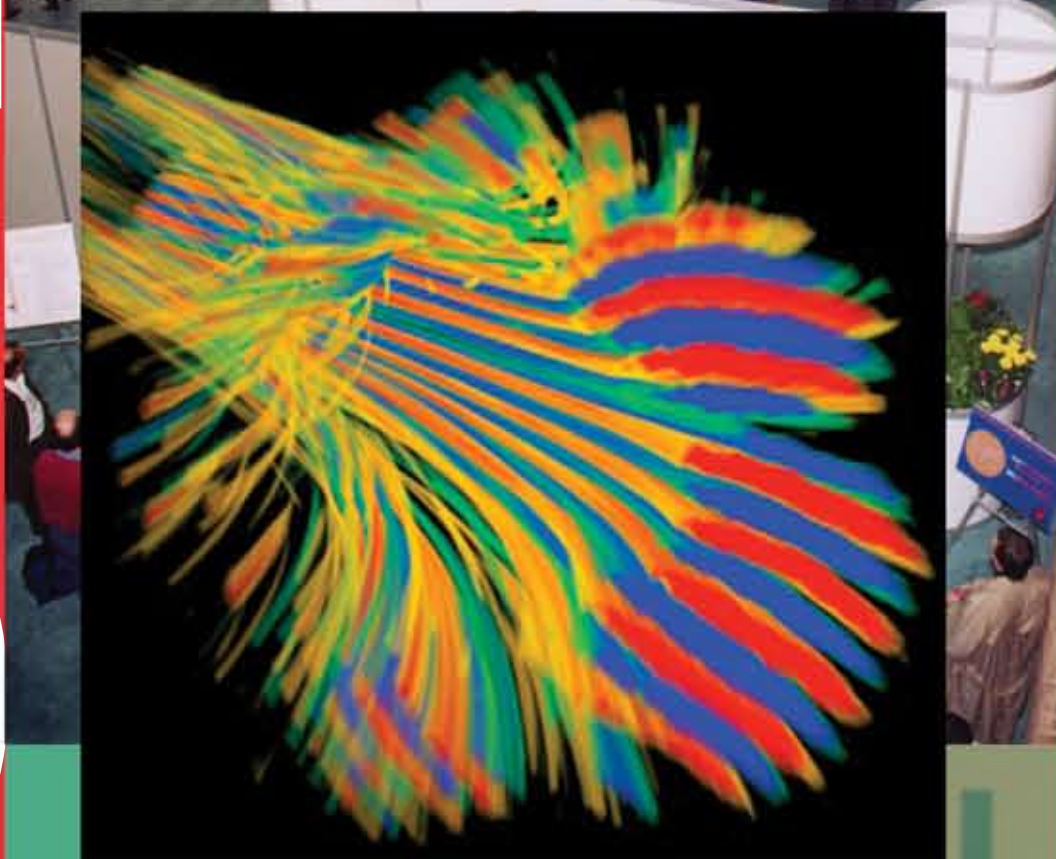


20 Years - Unleashing the Power of HPC

SCS 1996

1996 Chair
Beverly Clayton
Pittsburgh, PA



1996

Notable Systems first mentioned this year in the proceedings:

- Cray T3E
- NEC SX-4
- SGI Onyx
- NAL Numerical Wind Tunnel

Notable Processors

- MIPS R10000

Not mentioned in the proceedings after this year:

- Cray J932
- Cray T-94

Noteworthy Architecture Topics

- Hardware performance counters and performance tuning
- Compiler optimization of communications along with computation
- SuperScalar processor architectures
- RAID storage
- Parallel computers for data mining

Notable Operating Systems

- Mach
- PUMA
- SGI Irix
- SunOS
- Sun Solaris
- NEC Super-UX

Notable Programming Languages

- C**
- TCL/TK
- Python

Research Machines

- NAL Numerical Wind Tunnel

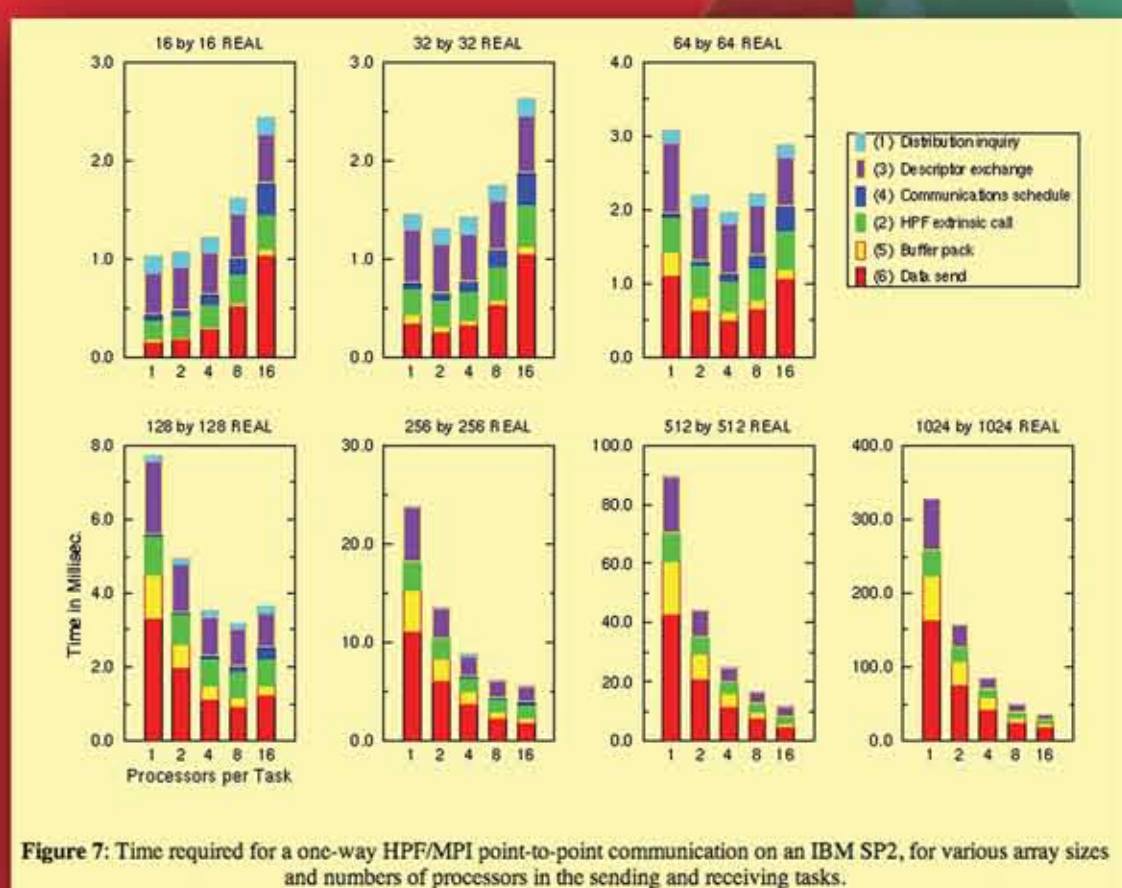


Figure 7: Time required for a one-way HPP/MPI point-to-point communication on an IBM SP2, for various array sizes and numbers of processors in the sending and receiving tasks.

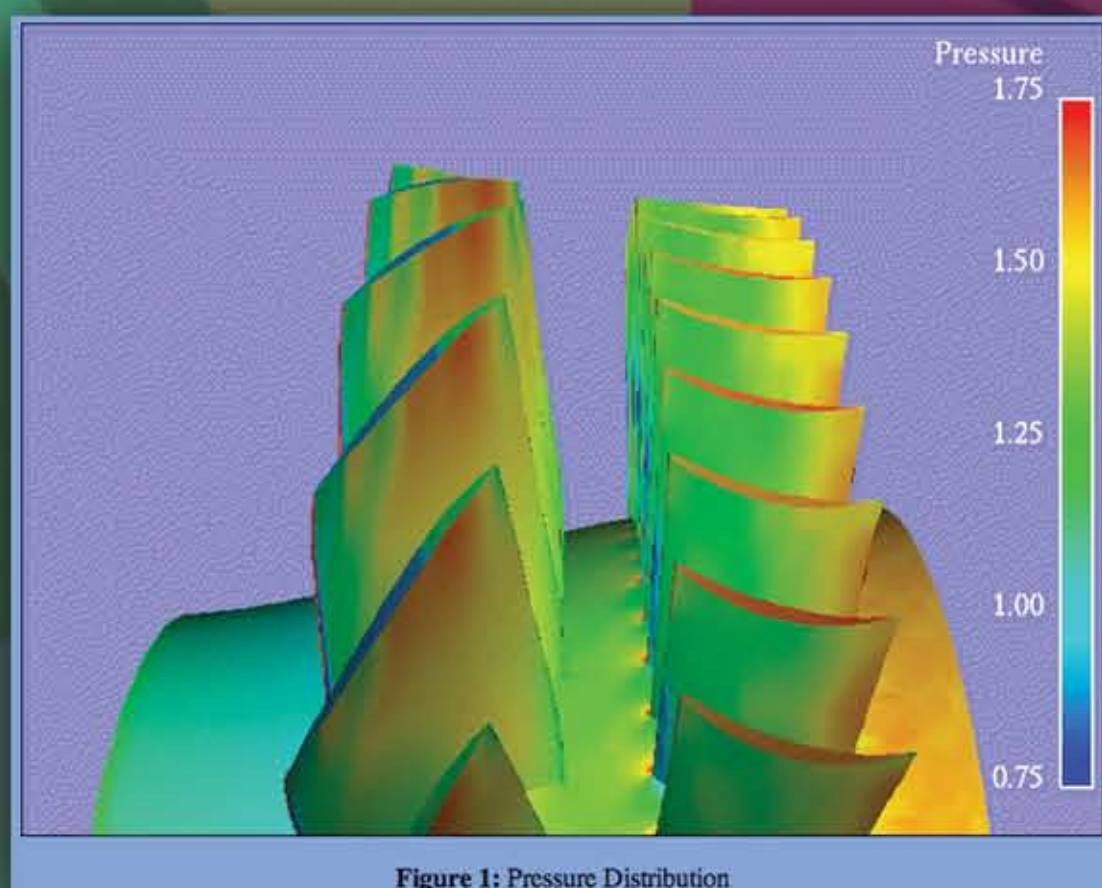


Figure 1: Pressure Distribution

Turbine simulation

