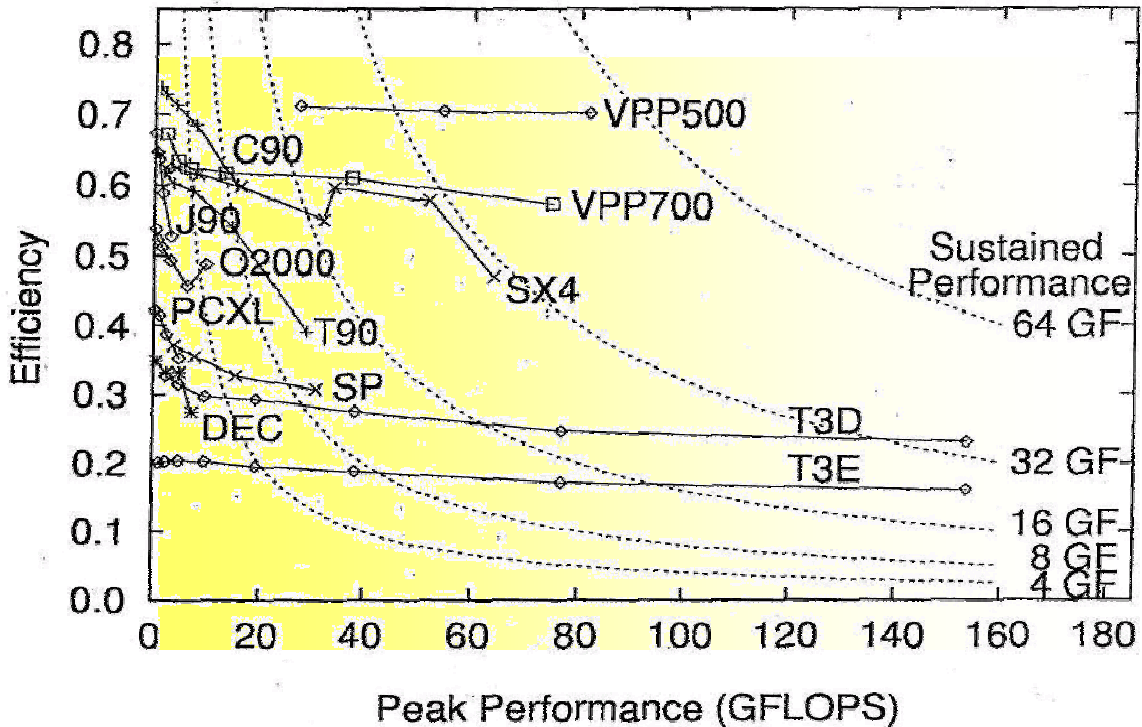


数值风洞 (NWT)

NAS Parallel Benchmark

NAS Parallel Benchmark 1.0 – BT Class B (Nov., 1996)



NWT Performance

NS3D

TVD Scheme and IAF method
BT matrices directly inverted

64 x 128 x 128 (1M) grid points;
128PE NWT Delivered **176 x VP400**
90% effective to peak performance
Comm/(Comp+Comm) = 11.5%

512 x 420 x 280 (60M) grid point;
140PE NWT Delivered **190 x VP400**

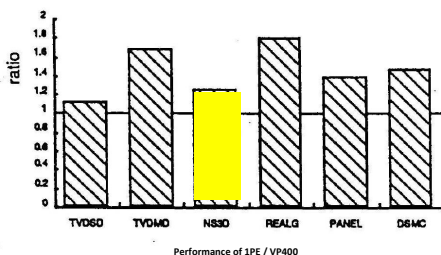


Figure 3. Performance of 1 PE

Time Ratio

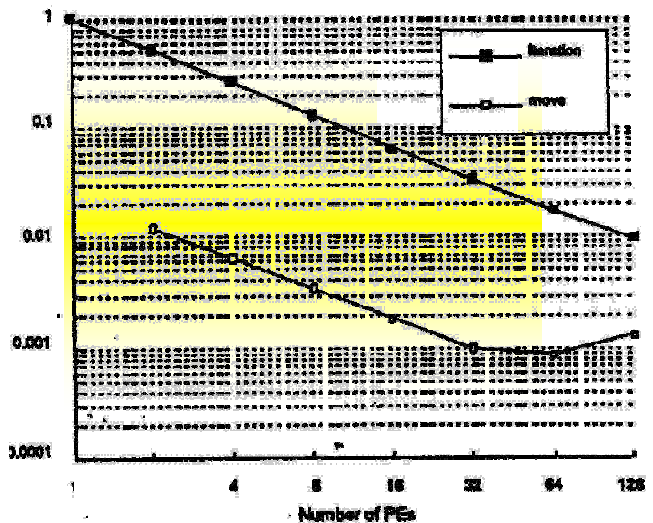


Figure 4. NS3D Computation Time and Communication Delay