



# CFP2000 Result

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NEC Corporation  
TX7/i9510(1000MHz, Itanium 2)

SPECfp2000 = --  
SPECfp\_base2000 = 1259

SPEC license #: 1184 Tested by: NEC T.Kokubo Test date: Dec-2002 Hardware Avail: Aug-2002 Software Avail: Nov-2002

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
168.wupwise	1600	171	933		
171.swim	3100	104	2987		
172.mgrid	1800	103	1747		
173.applu	2100	107	1958		
177.mesa	1400	198	707		
178.galgel	2900	116	2496		
179.art	2600	85.8	3030		
183.quake	1300	88.8	1463		
187.facerec	1900	176	1082		
188.amp	2200	249	885		
189.lucas	2000	209	955		
191.fma3d	2100	323	649		
200.sixtrack	1100	121	907		
301.apsi	2600	416	625		

### Hardware

CPU: Itanium2  
 CPU MHz: 1000  
 FPU: Integrated  
 CPU(s) enabled: 32 cores, 32 chips, 1 core/chip  
 CPU(s) orderable: 1-32  
 Parallel: No  
 Primary Cache: 16KBI + 16KBD on chip  
 Secondary Cache: 256KB on chip  
 L3 Cache: 3MB on chip  
 Other Cache: None  
 Memory: 64GB  
 Disk Subsystem: 3x32GB + 11x73GB SCSI disk  
 Other Hardware: Ethernet

### Software

Operating System: NEC IA-64 Linux R3.2  
 Compiler: NEC FORTRAN95 R3.2  
 NEC C/C++ R3.2  
 File System: ext2  
 System State: Multi-user

## Notes/Tuning Information

Base tuning:  
 Fortran: -O3 -ipo -ftz +FDO  
 C: -O3 -ipo -ftz +FDO  
 +FDO:  
 PASS1: -prof\_gen  
 PASS2: -prof\_use  
 Portability:  
 178.galgel: -FI

11x73GB SCSI disk system setup as big work area with no striping.  
 3x32GB SCSI disk system setup: 1 disk for OS installing area, 2 disks for users area, and both disks are no striping. The SPEC benchmark environment was on the users area, and the compiler was located on the same disk with the OS installing area.