



# CFP2000 Result

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## Hewlett-Packard Company

### HP Integrity Server rx4640 (1300 MHz, Itanium 2)

SPECfp\_rate2000 = 57.4

SPECfp\_rate\_base2000 = 57.4

SPEC license #: 3 Tested by: HP Richardson Test date: Jan-2004 Hardware Avail: Jan-2004 Software Avail: Jan-2004

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	4	143	52.1	4	143	52.1
171.swim	4	293	49.1	4	293	49.1
172.mgrid	4	261	32.0	4	261	32.0
173.applu	4	110	88.4	4	110	88.4
177.mesa	4	132	49.2	4	132	49.2
178.galgel	4	86.5	156	4	86.5	156
179.art	4	55.6	217	4	55.6	217
183.equake	4	121	50.0	4	121	50.0
187.facerec	4	151	58.3	4	151	58.3
188.amp	4	183	55.9	4	183	55.9
189.lucas	4	293	31.6	4	293	31.6
191.fma3d	4	294	33.1	4	294	33.1
200.sixtrack	4	92.5	55.2	4	92.5	55.2
301.apsi	4	327	36.9	4	327	36.9

#### Hardware

CPU: Intel Itanium 2  
 CPU MHz: 1300  
 FPU: Integrated  
 CPU(s) enabled: 4 cores, 4 chips, 1 core/chip  
 CPU(s) orderable: 1-4  
 Parallel: no  
 Primary Cache: 16KBI + 16KBD (on chip) per CPU  
 Secondary Cache: 256KB (on chip) per CPU  
 L3 Cache: 3.0MB (on chip) per CPU  
 Other Cache: N/A  
 Memory: 32GB (16 \* 2GB DIMMs)  
 Disk Subsystem: 1x36GB 10k RPM SCSI disk  
 Other Hardware: N/A

#### Software

Operating System: Red Hat Linux Advanced Server release 2.1AS (Update 2)  
 Compiler: Intel C++ Compiler 8.0 for Linux, Build 20031017  
 Intel Fortran Compiler 8.0 for Linux, Build 20031017  
 File System: ext3  
 System State: Multi-user

### Notes/Tuning Information

```
+FDO: PASS1=-prof_gen PASS2=-prof_use
Base tuning flags:
    C programs: -O3 -ipo +FDO -ansi_alias
    Fortran programs: -O3 -ipo +FDO
Portability:
    178.galgel: -FI

Peak flags same as baseline (basepeak=true set globally)
```

Note:  
 'ELILO boot: linux maxcpus=0' used to  
 deconfigure other processors if necessary  
 Kernel was built with the configuration of 64K page size.