



# CFP2000 Result

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## Hewlett-Packard Company

### HP Integrity Server rx4640 (1500 MHz, Itanium 2)

SPECfp\_rate2000 = 43.2

SPECfp\_rate\_base2000 = 43.2

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	2	121	30.7	2	121	30.7
171.swim	2	142	50.7	2	142	50.7
172.mgrid	2	124	33.7	2	124	33.7
173.applu	2	63.8	76.4	2	63.8	76.4
177.mesa	2	114	28.5	2	114	28.5
178.galgel	2	63.5	106	2	63.5	106
179.art	2	38.8	155	2	38.8	155
183.equake	2	58.5	51.5	2	58.5	51.5
187.facerec	2	104	42.3	2	104	42.3
188.amp	2	149	34.3	2	149	34.3
189.lucas	2	148	31.4	2	148	31.4
191.fma3d	2	203	24.0	2	203	24.0
200.sixtrack	2	78.5	32.5	2	78.5	32.5
301.apsi	2	264	22.8	2	264	22.8

### Hardware

CPU: Intel Itanium 2  
 CPU MHz: 1500  
 FPU: Integrated  
 CPU(s) enabled: 2 cores, 2 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: 6.0MB (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.