



# CFP2000 Result

Copyright ©1999-2004, Standard Performance Evaluation Corporation

**Hewlett-Packard Company**  
HP Integrity Server rx4640 (1500 MHz, Itanium 2)

SPECfp\_rate2000 = 25.1  
SPECfp\_rate\_base2000 = 25.1

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	1	114	16.2	1	114	16.2
171.swim	1	73.4	49.0	1	73.4	49.0
172.mgrid	1	71.4	29.2	1	71.4	29.2
173.applu	1	60.3	40.4	1	60.3	40.4
177.mesa	1	116	14.0	1	116	14.0
178.galgel	1	63.4	53.0	1	63.4	53.0
179.art	1	38.8	77.7	1	38.8	77.7
183.equake	1	46.4	32.5	1	46.4	32.5
187.facerec	1	94.9	23.2	1	94.9	23.2
188.amp	1	149	17.1	1	149	17.1
189.lucas	1	109	21.3	1	109	21.3
191.fma3d	1	181	13.5	1	181	13.5
200.sixtrack	1	78.2	16.3	1	78.2	16.3
301.apsi	1	257	11.7	1	257	11.7

**Hardware**

CPU: Intel Itanium 2  
CPU MHz: 1500  
FPU: Integrated  
CPU(s) enabled: 1 core, 1 chip, 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.