



# CFP2000 Result

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Hewlett-Packard Company  
HP Integrity rx1620-2 (1.6GHz/3MB Itanium 2)

SPECfp\_rate2000 = 50.4  
SPECfp\_rate\_base2000 = 50.4

SPEC license #: 3 Tested by: HP Richardson Test date: Oct-2004 Hardware Avail: Jan-2005 Software Avail: Nov-2004

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	2	61.5	60.4	2	61.5	60.4
171.swim	2	146	49.3	2	146	49.3
172.mgrid	2	117	35.8	2	117	35.8
173.applu	2	55.1	88.4	2	55.1	88.4
177.mesa	2	113	28.8	2	113	28.8
178.galgel	2	47.3	142	2	47.3	142
179.art	2	20.8	290	2	20.8	290
183.equake	2	53.2	56.7	2	53.2	56.7
187.facerec	2	118	37.3	2	118	37.3
188.amp	2	149	34.3	2	149	34.3
189.lucas	2	155	29.9	2	155	29.9
191.fma3d	2	151	32.3	2	151	32.3
200.sixtrack	2	69.8	36.6	2	69.8	36.6
301.apsi	2	251	24.1	2	251	24.1

### Hardware

CPU: Intel Itanium 2 (1.6 GHz/3MB, 533 MHz FSB)  
CPU MHz: 1600  
FPU: Integrated  
CPU(s) enabled: 2 cores, 2 chips, 1 core/chip  
CPU(s) orderable: 1-2  
Parallel: no  
Primary Cache: 16KBI + 16KBD on chip, per core  
Secondary Cache: 256KB (I+D) on chip, per core  
L3 Cache: 3.0MB (I+D) on chip, per core  
Other Cache: N/A  
Memory: 16GB (8x2GB DIMMs)  
Disk Subsystem: 1x36GB 15K SCSI  
Other Hardware: N/A

### Software

Operating System: Red Hat Linux Advanced Server release 3.0AS (Update 3)  
Compiler: Intel C++ Compiler 8.1 for Linux (Build 20041021)  
Intel Fortran Compiler 8.1 for Linux (Build 20041021)  
File System: ext3  
System State: Multi-user

## Notes/Tuning Information

Base tuning flags:

C programs: -fast -ansi\_alias +FDO -IPF\_fp\_relaxed  
Fortran programs: -fast +FDO -IPF\_fp\_relaxed

Portability:

178.galgel: -FI  
187.facerec: srcalt=AllocShape

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

+FDO: PASS1=-prof\_gen PASS2=-prof\_use

Note:

EFI command "cpuconfig" used prior to booting to  
deconfigure other processors if necessary