



# CFP2000 Result

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Hewlett-Packard Company  
HP Integrity rx4640-8 (1.6GHz/9MB Itanium 2)

SPECfp\_rate2000 = 77.9  
SPECfp\_rate\_base2000 = 77.9

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	4	89.2	83.2	4	89.2	83.2
171.swim	4	290	49.5	4	290	49.5
172.mgrid	4	239	34.9	4	239	34.9
173.applu	4	85.7	114	4	85.7	114
177.mesa	4	109	59.8	4	109	59.8
178.galgel	4	40.4	333	4	40.4	333
179.art	4	20.9	576	4	20.9	576
183.equake	4	104	57.8	4	104	57.8
187.facerec	4	107	82.2	4	107	82.2
188.amp	4	133	76.9	4	133	76.9
189.lucas	4	280	33.2	4	280	33.2
191.fma3d	4	243	40.1	4	243	40.1
200.sixtrack	4	70.5	72.4	4	70.5	72.4
301.apsi	4	263	45.8	4	263	45.8

### Hardware

CPU: Intel Itanium 2  
CPU MHz: 1600  
FPU: Integrated  
CPU(s) enabled: 4 cores, 4 chips, 1 core/chip  
CPU(s) orderable: 4  
Parallel: no  
Primary Cache: 16KBI + 16KBD on chip, per core  
Secondary Cache: 256KB (I+D) on chip, per core  
L3 Cache: 9.0MB (I+D) on chip, per core  
Other Cache: N/A  
Memory: 32GB (16x2GB 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