



# CFP2000 Result

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

SPECfp2000 = 2692  
SPECfp\_base2000 = 2692

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
168.wupwise	1600	49.5	3231	49.5	3231
171.swim	3100	65.1	4759	65.1	4759
172.mgrid	1800	63.6	2832	63.6	2832
173.applu	2100	50.8	4130	50.8	4130
177.mesa	1400	111	1263	111	1263
178.galgel	2900	44.5	6510	44.5	6510
179.art	2600	20.5	12704	20.5	12704
183.quake	1300	36.9	3519	36.9	3519
187.facerec	1900	105	1808	105	1808
188.amp	2200	145	1520	145	1520
189.lucas	2000	104	1919	104	1919
191.fma3d	2100	124	1694	124	1694
200.sixtrack	1100	69.3	1586	69.3	1586
301.apsi	2600	233	1118	233	1118

### Hardware

CPU: Intel Itanium 2 (1.6 GHz/3MB, 533 MHz FSB)  
CPU MHz: 1600  
FPU: Integrated  
CPU(s) enabled: 1 core, 1 chip, 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