



CFP2000 Result

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Hewlett-Packard Company
HP Integrity rx4640-8 (1.5GHz/4MB Itanium 2)

SPECfp_rate2000 = 29.0
SPECfp_rate_base2000 = 29.0

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	1	59.9	31.0	1	59.9	31.0
171.swim	1	71.3	50.4	1	71.3	50.4
172.mgrid	1	70.1	29.8	1	70.1	29.8
173.applu	1	55.1	44.2	1	55.1	44.2
177.mesa	1	119	13.6	1	119	13.6
178.galgel	1	43.5	77.3	1	43.5	77.3
179.art	1	22.1	136	1	22.1	136
183.equake	1	42.0	35.9	1	42.0	35.9
187.facerec	1	103	21.4	1	103	21.4
188.amp	1	149	17.1	1	149	17.1
189.lucas	1	109	21.3	1	109	21.3
191.fma3d	1	137	17.8	1	137	17.8
200.sixtrack	1	73.5	17.4	1	73.5	17.4
301.apsi	1	256	11.8	1	256	11.8

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 core
 Secondary Cache: 256KB (I+D) on chip, per core
 L3 Cache: 4.0MB (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