



CFP2000 Result

Copyright ©1999-2004, Standard Performance Evaluation Corporation

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

SPECfp_rate2000 = 70.5
SPECfp_rate_base2000 = 70.5

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	4	93.2	79.7	4	93.2	79.7
171.swim	4	293	49.1	4	293	49.1
172.mgrid	4	253	33.1	4	253	33.1
173.applu	4	92.7	105	4	92.7	105
177.mesa	4	119	54.5	4	119	54.5
178.galgel	4	51.5	261	4	51.5	261
179.art	4	22.3	541	4	22.3	541
183.equake	4	115	52.6	4	115	52.6
187.facerec	4	144	61.1	4	144	61.1
188.amp	4	153	66.8	4	153	66.8
189.lucas	4	289	32.2	4	289	32.2
191.fma3d	4	250	39.0	4	250	39.0
200.sixtrack	4	76.0	67.1	4	76.0	67.1
301.apsi	4	304	39.6	4	304	39.6

Hardware

CPU: Intel Itanium 2
 CPU MHz: 1500
 FPU: Integrated
 CPU(s) enabled: 4 cores, 4 chips, 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