



CFP2000 Result

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

SPECfp_rate2000 = 48.3
SPECfp_rate_base2000 = 48.3

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	2	71.8	51.7	2	71.8	51.7
171.swim	2	142	50.7	2	142	50.7
172.mgrid	2	125	33.4	2	125	33.4
173.applu	2	59.5	81.9	2	59.5	81.9
177.mesa	2	119	27.2	2	119	27.2
178.galgel	2	46.4	145	2	46.4	145
179.art	2	22.3	270	2	22.3	270
183.equake	2	60.2	50.1	2	60.2	50.1
187.facerec	2	116	37.9	2	116	37.9
188.amp	2	152	33.7	2	152	33.7
189.lucas	2	150	30.9	2	150	30.9
191.fma3d	2	150	32.6	2	150	32.6
200.sixtrack	2	74.0	34.5	2	74.0	34.5
301.apsi	2	271	22.3	2	271	22.3

Hardware

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