



CFP2000 Result

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Hewlett-Packard Company
HP Integrity Server rx4640 (1300 MHz, Itanium 2)

SPECfp_rate2000 = 37.9
SPECfp_rate_base2000 = 37.9

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	2	136	27.3	2	136	27.3
171.swim	2	145	49.6	2	145	49.6
172.mgrid	2	129	32.3	2	129	32.3
173.applu	2	73.1	66.6	2	73.1	66.6
177.mesa	2	132	24.6	2	132	24.6
178.galgel	2	80.4	83.7	2	80.4	83.7
179.art	2	48.1	125	2	48.1	125
183.equake	2	67.2	44.9	2	67.2	44.9
187.facerec	2	126	35.0	2	126	35.0
188.amp	2	183	28.0	2	183	28.0
189.lucas	2	156	29.8	2	156	29.8
191.fma3d	2	218	22.4	2	218	22.4
200.sixtrack	2	90.7	28.1	2	90.7	28.1
301.apsi	2	301	20.0	2	301	20.0

Hardware

CPU: Intel Itanium 2
CPU MHz: 1300
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 CPU
Secondary Cache: 256KB (on chip) per CPU
L3 Cache: 3.0MB (on chip) per CPU
Other Cache: N/A
Memory: 32GB (16 * 2GB DIMMs)
Disk Subsystem: 1x36GB 10k RPM SCSI disk
Other Hardware: N/A

Software

Operating System: Red Hat Linux Advanced Server release 2.1AS (Update 2)
Compiler: Intel C++ Compiler 8.0 for Linux, Build 20031017
Intel Fortran Compiler 8.0 for Linux, Build 20031017
File System: ext3
System State: Multi-user

Notes/Tuning Information

```
+FDO: PASS1=-prof_gen PASS2=-prof_use
Base tuning flags:
    C programs: -O3 -ipo +FDO -ansi_alias
    Fortran programs: -O3 -ipo +FDO
Portability:
    178.galgel: -FI

Peak flags same as baseline (basepeak=true set globally)
```

Note:
'ELILO boot: linux maxcpus=0' used to
deconfigure other processors if necessary
Kernel was built with the configuration of 64K page size.