



CFP2000 Result

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

SPECfp2000 = **1891**
SPECfp_base2000 = **1891**

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
168.wupwise	1600	128	1245	128	1245	
171.swim	3100	75.7	4097	75.7	4097	
172.mgrid	1800	78.4	2297	78.4	2297	
173.applu	2100	68.1	3083	68.1	3083	
177.mesa	1400	133	1054	133	1054	
178.galgel	2900	77.5	3741	77.5	3741	
179.art	2600	49.1	5299	49.1	5299	
183.quake	1300	53.2	2442	53.2	2442	
187.facerec	1900	114	1672	114	1672	
188.amp	2200	181	1215	181	1215	
189.lucas	2000	115	1736	115	1736	
191.fma3d	2100	200	1050	200	1050	
200.sixtrack	1100	90.5	1215	90.5	1215	
301.apsi	2600	288	903	288	903	

Hardware

CPU: Intel Itanium 2
 CPU MHz: 1300
 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 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 Fortan 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.