



# CFP2000 Result

Copyright ©1999-2004, Standard Performance Evaluation Corporation

**Hewlett-Packard Company**  
HP Integrity Server rx4640 (1500 MHz, Itanium 2)

SPECfp2000 = 2161  
SPECfp\_base2000 = 2161

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	114	1401	114	1401	
171.swim	3100	73.4	4224	73.4	4224	
172.mgrid	1800	71.4	2521	71.4	2521	
173.applu	2100	60.3	3483	60.3	3483	
177.mesa	1400	116	1209	116	1209	
178.galgel	2900	63.4	4573	63.4	4573	
179.art	2600	38.8	6702	38.8	6702	
183.earth	1300	46.4	2802	46.4	2802	
187.facerec	1900	94.9	2002	94.9	2002	
188.amp	2200	149	1478	149	1478	
189.lucas	2000	109	1836	109	1836	
191.fma3d	2100	181	1162	181	1162	
200.sixtrack	1100	78.2	1406	78.2	1406	
301.apsi	2600	257	1012	257	1012	

### 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 CPU  
 Secondary Cache: 256KB (on chip) per CPU  
 L3 Cache: 6.0MB (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.