



# CFP2000 Result

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## Hewlett-Packard Company

### HP Workstation zx6000 (1500 MHz, Itanium 2)

SPECfp\_rate2000 = 42.4

SPECfp\_rate\_base2000 = 42.4

SPEC license #: 3 Tested by: HP Fort Collins Test date: Jun-2003 Hardware Avail: Sep-2003 Software Avail: Sep-2003

| Benchmark    | Base Copies | Base Runtime | Base Ratio | Copies | Runtime | Ratio |
|--------------|-------------|--------------|------------|--------|---------|-------|
| 168.wupwise  | 2           | 118          | 31.5       | 2      | 118     | 31.5  |
| 171.swim     | 2           | 135          | 53.2       | 2      | 135     | 53.2  |
| 172.mgrid    | 2           | 117          | 35.7       | 2      | 117     | 35.7  |
| 173.applu    | 2           | 65.4         | 74.4       | 2      | 65.4    | 74.4  |
| 177.mesa     | 2           | 124          | 26.1       | 2      | 124     | 26.1  |
| 178.galgel   | 2           | 68.8         | 97.8       | 2      | 68.8    | 97.8  |
| 179.art      | 2           | 39.9         | 151        | 2      | 39.9    | 151   |
| 183.equake   | 2           | 60.4         | 49.9       | 2      | 60.4    | 49.9  |
| 187.facerec  | 2           | 106          | 41.7       | 2      | 106     | 41.7  |
| 188.amp      | 2           | 156          | 32.7       | 2      | 156     | 32.7  |
| 189.lucas    | 2           | 148          | 31.4       | 2      | 148     | 31.4  |
| 191.fma3d    | 2           | 213          | 22.9       | 2      | 213     | 22.9  |
| 200.sixtrack | 2           | 78.4         | 32.5       | 2      | 78.4    | 32.5  |
| 301.apsi     | 2           | 269          | 22.4       | 2      | 269     | 22.4  |

### Hardware

CPU: Intel Itanium 2  
 CPU MHz: 1500  
 FPU: Integrated  
 CPU(s) enabled: 2 cores, 2 chips, 1 core/chip  
 CPU(s) orderable: 1-2  
 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: 12GB (12 \* 1GB DIMMs)  
 Disk Subsystem: 1x36GB 10k RPM SCSI disk  
 Other Hardware: N/A

### Software

Operating System: Red Hat Linux Advanced Workstation 2.1 (Update 2)  
 Compiler: Intel C++ Compiler 7.1 for Linux64, Build 20030519  
 Intel Fortran Compiler 7.1 for Linux64, Build 20030519  
 File System: ext3  
 System State: Multi-user

## Notes/Tuning Information

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