



# CINT2000 Result

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**Hewlett-Packard Company**  
HP Integrity Superdome 16-way (1500 MHz Itanium 2)

SPECint\_rate2000 = 229  
SPECint\_rate\_base2000 = 229

SPEC license #: 3 Tested by: HP Richardson Test date: Sep-2003 Hardware Avail: Oct-2003 Software Avail: Sep-2003

| Benchmark   | Base Copies | Base Runtime | Base Ratio | Copies | Runtime | Ratio |
|-------------|-------------|--------------|------------|--------|---------|-------|
| 164.zip     | 16          | 148          | 175        | 16     | 148     | 175   |
| 175.vpr     | 16          | 132          | 197        | 16     | 132     | 197   |
| 176.gcc     | 16          | 77.2         | 264        | 16     | 77.2    | 264   |
| 181.mcf     | 16          | 105          | 318        | 16     | 105     | 318   |
| 186.crafty  | 16          | 83.7         | 222        | 16     | 83.7    | 222   |
| 197.parser  | 16          | 189          | 177        | 16     | 189     | 177   |
| 252.eon     | 16          | 84.2         | 287        | 16     | 84.2    | 287   |
| 253.perlbnk | 16          | 153          | 218        | 16     | 153     | 218   |
| 254.gap     | 16          | 128          | 160        | 16     | 128     | 160   |
| 255.vortex  | 16          | 103          | 342        | 16     | 103     | 342   |
| 256.bzip2   | 16          | 125          | 222        | 16     | 125     | 222   |
| 300.twolf   | 16          | 234          | 238        | 16     | 234     | 238   |

### Hardware

CPU: Intel Itanium 2  
 CPU MHz: 1500  
 FPU: Integrated  
 CPU(s) enabled: 16 cores, 16 chips, 1 core/chip  
 CPU(s) orderable: 6 to 16 by 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: 64GB (128 \* 512MB DIMMs)  
 Disk Subsystem: 10x36GB 10K RPM SCSI disk (striped)  
 Other Hardware: N/A

### Software

Operating System: HPUX11i-TCOE B.11.23  
 Compiler: HP C/ANSI C Compiler B.11.23  
 HP aC++ Compiler B.11.23  
 File System: hfs  
 System State: Multi-user

## Notes/Tuning Information

### Portability Flags

```
176.gcc : -DHOST_WORDS_BIG_ENDIAN
186.crafty : -DHP
252.eon : -DFMAX_IS_DOUBLE
253.perlbnk : -DSPEC_CPU2000_HP
254.gap : -DSPEC_CPU2000_HP -DSYS_IS_USG -DSYS_HAS_IOCTL_PROTO
        -DSYS_HAS_TIME_PROTO -DSYS_HAS_CALLOC_PROTO
```

### Base Flags

```
all : +Oprofile=collect:all/+Oprofile=use
C : +Ofaster -exec +Odatalayout
C++ : +Ofaster +inline_level 2 -minshared
```

### Peak Flags

same as baseline (basepeak=true set globally)

### Kernel Tunables:

```
dbc_max_pct=20
dbc_min_pct=20
maxdsiz=3221225472
```



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## Notes/Tuning Information (Continued)

```
maxssiz=401604608
maxdsiz_64bit=4396972769279
maxssiz_64bit=1073741824
vps_pagesize=4096
vps_ceiling=16384
```

### Notes:

System was configured with 1/2 of memory interleaved and  
1/2 of memory local to each cell

System configured as a single partition with 4 cells and  
4 processors per cell

Processes were assigned to localities using the  
HP-UX mpsched utility

Filesystem used for spec runs mounted fs\_async