



# CINT2000 Result

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**Hewlett-Packard Company**  
HP Integrity Server rx1600 (1000 MHz, Itanium 2)

SPECint2000 = **837**  
SPECint\_base2000 = **827**

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

| Benchmark   | Reference Time | Base Runtime | Base Ratio | Runtime | Ratio |  |
|-------------|----------------|--------------|------------|---------|-------|--|
| 164.gzip    | 1400           | 219          | 638        | 219     | 638   |  |
| 175.vpr     | 1400           | 210          | 667        | 209     | 671   |  |
| 176.gcc     | 1100           | 109          | 1008       | 109     | 1008  |  |
| 181.mcf     | 1800           | 248          | 726        | 248     | 726   |  |
| 186.crafty  | 1000           | 123          | 816        | 123     | 816   |  |
| 197.parser  | 1800           | 287          | 628        | 287     | 628   |  |
| 252.eon     | 1300           | 108          | 1208       | 105     | 1238  |  |
| 253.perlbnk | 1800           | 219          | 823        | 203     | 889   |  |
| 254.gap     | 1100           | 136          | 808        | 136     | 808   |  |
| 255.vortex  | 1900           | 159          | 1198       | 157     | 1207  |  |
| 256.bzip2   | 1500           | 201          | 748        | 201     | 748   |  |
| 300.twolf   | 3000           | 337          | 891        | 325     | 924   |  |

### Hardware

CPU: Intel Itanium 2  
CPU MHz: 1000  
FPU: Integrated  
CPU(s) enabled: 1 core, 1 chip, 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: 1.5MB (on chip) per CPU  
Other Cache: N/A  
Memory: 8GB (8 \* 1GB DIMMs)  
Disk Subsystem: 1x147GB 10k RPM SCSI disk  
Other Hardware: N/A

### Software

Operating System: HPUX11i-TCOE B.11.23  
Compiler: HP C/ANSI C Compiler B.11.23 (C.05.55)  
HP aC++ Compiler B.11.23 (C.05.55)  
File System: VxFS  
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

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

### Peak Flags

```
164.gzip : basepeak=true
175.vpr : PBO +Ofaster +Odatalayout +Onorecovery
        +Onoptrs_to_globals -exec
        LIBS = -Wl,-aarchive_shared -Bprotected
176.gcc : basepeak=true
181.mfc : basepeak=true
```



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## Notes/Tuning Information (Continued)

```

186.crafty : basepeak=true
197.parser : basepeak=true
252.eon     : PBO +Ofaster +Odatalayout +Otype_safety=ansi
             +inline_level 2 -minshared
253.perlbnk: PBO +Ofaster +Odatalayout +Onoptrs_to_globals -exec
             LIBS = -Wl,-aarchive_shared -Bprotected_def fastmem.o
254.gap     : basepeak=true
255.vortex  : PBO +Ofaster +Odatalayout +Onorecovery
             +Onoptrs_to_globals -exec
             LIBS = -Wl,-aarchive_shared -Bprotected
256.bzip2   : basepeak=true
300.twolf   : PBO +Ofaster +Odatalayout +Onoptrs_to_globals -exec
             LIBS = -Wl,-aarchive_shared -Bprotected_data effmem.o

```

### Kernel Tunables:

```

maxdsiz           0x7b03a000
maxdsiz_64bit    0x04000000000
maxssiz          0x10000000
maxssiz_64bit    0x40000000
vps_ceiling      16384
vps_pagesize     4096
swapmem_on       0
dbc_max_pct      20
dbc_min_pct      20

```

### Note:

```

EFI shell utility 'cpuconfig' used
to deconfigure processors if necessary

```