



# CINT2000 Result

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Hewlett-Packard Company  
hp workstation zx6000 (1000 MHz, Itanium 2)

SPECint2000 = --  
SPECint\_base2000 = 807

SPEC license #: 3 Tested by: Hewlett-Packard Test date: Jul-2002 Hardware Avail: Sep-2002 Software Avail: Oct-2002

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
164.gzip	1400	240	583		
175.vpr	1400	200	699		
176.gcc	1100	108	1015		
181.mcf	1800	219	822		
186.crafty	1000	128	782		
197.parser	1800	273	659		
252.eon	1300	130	1004		
253.perlbnk	1800	222	810		
254.gap	1100	162	679		
255.vortex	1900	160	1187		
256.bzip2	1500	198	759		
300.twolf	3000	341	879		

### 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: 3.0MB (on chip) per CPU  
Other Cache: N/A  
Memory: 6GB (12 \* 512MB DIMMs)  
Disk Subsystem: 1x36GB SCSI disk  
Other Hardware: N/A

### Software

Operating System: HP-UX 11i-TCOE B.11.22  
Compiler: HP C/ANSI C Compiler B.11.22  
HP aC++ Compiler B.11.22

PHSS\_27286: C product  
PHSS\_27284: C++ product  
PHSS\_27285: C++ library  
PHSS\_27287: U2comp  
PHSS\_27288: Linker  
PHSS\_27291: PBO  
PHSS\_27293: milli.a  
Caliper v2.1 [www.hp.com/go/caliper](http://www.hp.com/go/caliper)

File System: VxFS  
System State: Multi-user

## Notes/Tuning Information

### Portability Flags:

```
176.gcc      : -DHOST_WORDS_BIG_ENDIAN
181.mcf      : -DWANT_STDC_PROTO
186.crafty   : -DHP
252.eon      : -I. -DFMAX_IS_DOUBLE -DNDEBUG
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/+Oprofile=use
C           : +Ofaster -exec -Wl,-aarchive_shared
C++        : +Ofaster +inline_level 2 -minshared
```

### Kernel Tunables:



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## Notes/Tuning Information (Continued)

```
maxdsiz          0x7b03a000
maxdsiz_64bit    0x0400000000
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 other processors