



CINT2000 Result

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Hewlett-Packard Company
hp workstation zx2000 (900 MHz, Itanium 2)

SPECint2000 = --
SPECint_base2000 = 668

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	300 600 900 1200			
164.gzip	1400	267	524			[Bar chart showing ratio]			
175.vpr	1400	248	564			[Bar chart showing ratio]			
176.gcc	1100	125	878			[Bar chart showing ratio]			
181.mcf	1800	418	430			[Bar chart showing ratio]			
186.crafty	1000	143	701			[Bar chart showing ratio]			
197.parser	1800	323	556			[Bar chart showing ratio]			
252.eon	1300	144	905			[Bar chart showing ratio]			
253.perlbnk	1800	252	715			[Bar chart showing ratio]			
254.gap	1100	181	609			[Bar chart showing ratio]			
255.vortex	1900	188	1011			[Bar chart showing ratio]			
256.bzip2	1500	253	592			[Bar chart showing ratio]			
300.twolf	3000	393	764			[Bar chart showing ratio]			

Hardware

CPU: Intel Itanium 2
CPU MHz: 900
FPU: Integrated
CPU(s) enabled: 1 core, 1 chip, 1 core/chip
CPU(s) orderable: 1
Parallel: no
Primary Cache: 16KBI + 16KBD (on chip) per CPU
Secondary Cache: 256KB (on chip) per CPU
L3 Cache: 1.5 MB (on chip) per CPU
Other Cache: N/A
Memory: 2GB (4 * 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

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    0x04000000000
maxssiz          0x10000000
maxssiz_64bit    0x40000000
vps_ceiling      16384
vps_pagesize     4096
swapmem_on       0
dbc_max_pct      20
dbc_min_pct      20
```