



CINT2000 Result

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Hewlett-Packard Corporation

hp workstation zx6000 (900MHz, Itanium 2)

SPECint_rate2000 = 15.4

SPECint_rate_base2000 = 15.4

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.zip	2	267	12.2	2	267	12.2
175.vpr	2	245	13.3	2	245	13.3
176.gcc	2	127	20.0	2	127	20.0
181.mcf	2	439	9.52	2	439	9.52
186.crafty	2	145	16.0	2	145	16.0
197.parser	2	334	12.5	2	334	12.5
252.eon	2	138	21.9	2	138	21.9
253.perlbnk	2	249	16.7	2	249	16.7
254.gap	2	184	13.9	2	184	13.9
255.vortex	2	191	23.0	2	191	23.0
256.bzip2	2	253	13.7	2	253	13.7
300.twolf	2	397	17.5	2	397	17.5

Hardware

CPU: Intel Itanium 2
CPU MHz: 900
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: 1.5MB (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-UX11i-TCOE B.11.22
Compiler: HP C/ANSI C Compiler v11.22
HP aC++ Compiler v11.22

PHSS_27286: C product
PHSS_27284: C++ product
PHSS_27285: C++ library
PHSS_27287: U2comp
PHSS_27288: Linker
PHSS_27289: Libm
PHSS_27290: Assembler
PHSS_27291: PBO
PHSS_27293: milli.a
Caliper v2.1.3 www.hp.com/go/caliper
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
```

Peak flags same as baseline (basepeak=true set globally)

Kernel Tunables:



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Notes/Tuning Information (Continued)

vps_ceiling	16384
vps_pagesize	4096
dbc_max_pct	10
dbc_min_pct	10