



CINT2000 Result

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Hewlett-Packard Corporation
hp workstation zx6000 (900MHz, Itanium 2)

SPECint_rate2000 = 7.76
SPECint_rate_base2000 = 7.76

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	1	267	6.09	1	267	6.09
175.vpr	1	243	6.70	1	243	6.70
176.gcc	1	126	10.1	1	126	10.1
181.mcf	1	408	5.12	1	408	5.12
186.crafty	1	145	7.97	1	145	7.97
197.parser	1	333	6.27	1	333	6.27
252.eon	1	138	10.9	1	138	10.9
253.perlbnk	1	249	8.38	1	249	8.38
254.gap	1	180	7.10	1	180	7.10
255.vortex	1	191	11.5	1	191	11.5
256.bzip2	1	251	6.92	1	251	6.92
300.twolf	1	402	8.66	1	402	8.66

Hardware

CPU: Intel Itanium 2
CPU MHz: 900
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: 6GB (12 * 512MB DIMMS)
Disk Subsystem: 1x36GB SCSI disk
Other Hardware: N/A

Software

Operating System: HPUX11i-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

Note:

EFI shell utility cpuconfig used
to deconfigure other processor