



CINT2000 Result

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Hewlett-Packard Company

HP Workstation zx6000 (1500 MHz, Itanium 2)

SPECint_rate2000 = 30.4

SPECint_rate_base2000 = 30.4

SPEC license #: 3 Tested by: HP Fort Collins Test date: Jun-2003 Hardware Avail: Sep-2003 Software Avail: Sep-2003

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	2	144	22.6	2	144	22.6
175.vpr	2	126	25.7	2	126	25.7
176.gcc	2	73.7	34.6	2	73.7	34.6
181.mcf	2	80.5	51.9	2	80.5	51.9
186.crafty	2	81.4	28.5	2	81.4	28.5
197.parser	2	183	22.8	2	183	22.8
252.eon	2	84.1	35.9	2	84.1	35.9
253.perlbnk	2	151	27.7	2	151	27.7
254.gap	2	106	24.0	2	106	24.0
255.vortex	2	97.9	45.0	2	97.9	45.0
256.bzip2	2	123	28.3	2	123	28.3
300.twolf	2	235	29.6	2	235	29.6

Hardware

CPU: Intel Itanium 2
CPU MHz: 1500
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: 6.0MB (on chip) per CPU
Other Cache: N/A
Memory: 12GB (12 x 1GB DIMMs)
Disk Subsystem: 1x36GB 10k RPM SCSI disk
Other Hardware: N/A

Software

Operating System: HP-UX11i-TCOE B.11.23
Compiler: HP C/ANSI C Compiler B.11.23
HP aC++ Compiler B.11.23
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
          -DSPEC_CPU2000_LP64 (because of 64-bit compile)
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:all/+Oprofile=use
C : +Ofaster -exec +Odatalayout
C++ : +Ofaster +inline_level 2 -minshared +DD64
```

Peak Flags

same as baseline (basepeak=true set globally)

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 processors if necessary