



CINT2000 Result

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Hewlett-Packard Company
hp workstation j6750

SPECint_rate2000 = 14.9
SPECint_rate_base2000 = 14.1

SPEC license #: 3 Tested by: HP Test date: Aug-2002 Hardware Avail: Nov-2002 Software Avail: Aug-2002

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.zip	2	242	13.4	2	243	13.4
175.vpr	2	219	14.8	2	219	14.8
176.gcc	2	125	20.4	2	125	20.4
181.mcf	2	536	7.78	2	536	7.79
186.crafty	2	133	17.4	2	133	17.4
197.parser	2	369	11.3	2	347	12.0
252.eon	2	219	13.7	2	191	15.8
253.perlbnk	2	293	14.3	2	247	16.9
254.gap	2	336	7.59	2	324	7.87
255.vortex	2	164	26.9	2	154	28.6
256.bzip2	2	295	11.8	2	258	13.5
300.twolf	2	328	21.2	2	322	21.6

Hardware

CPU: PA-8700+
CPU MHz: 875
FPU: Integrated
CPU(s) enabled: 2 cores, 2 chips, 1 core/chip
CPU(s) orderable: 1 to 2
Parallel: No
Primary Cache: 0.75MB(I) + 1.5MB(D) on chip
Secondary Cache: None
L3 Cache: None
Other Cache: None
Memory: 4GB (8x512MB DIMMs total)
Disk Subsystem: 1x18 GB SCSI
Other Hardware: None

Software

Operating System: HP-UX 11i TCOE B.11.11.0206.5
Compiler: HP ANSI C 11.11.04 (Dec 2001 bundle)
HP aC++ C.03.33.01 (Dec 2001 bundle)
PHSS_24207 libm patch
File System: VxFS
System State: Multi-user

Notes/Tuning Information

Portability:

```
176.gcc: -DHOST_WORDS_BIG_ENDIAN
186.crafty: -DHP
252.eon: -DFMAX_IS_DOUBLE
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
```

Baseline compile flags:

```
C      : +I/+P +Oall +Ostatic_prediction -Wl,-a,archive
C++    : +I/+P +O3 +Ostatic_prediction -Wl,-a,archive
```

Peak compile flags:

```
164.zip: +I/+P +Oall +Optrs_strongly_typed +Oinline_budget=800
        -Wl,-a,archive +Ostatic_prediction
175.vpr: basepeak=true
176.gcc: basepeak=true
176.mcf: +I/+P +Oall +Owhole_program_mode +Opromote_indirect_calls
        -Wl,-a,archive +Ostatic_prediction
```



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Notes/Tuning Information (Continued)

```
186.crafty: basepeak=true
176.parser: +I/+P +Oall +Odataprefetch +ESfic +Oinline_budget=400
            +Owhole_program_mode -Wl,-a,archive +Ostatic_prediction
252.eon: +I/+P +noeh +O4 +Optrs_strongly_typed +Olibcalls +Oentrysched
         +A +ESfic -Wl,-a,archive +Ostatic_prediction
253.perlbnk: +I/+P +Oall +ESlit +ESfic +Optrs_strongly_typed
            linked with /opt/langtools/lib/fastmem.o
254.gap: +I/+P +Oall +ESlit +ESfic +Optrs_strongly_typed
         +Opromote_indirect_calls -Wl,-a,archive +Ostatic_prediction
255.vortex: +I/+P +Oall +Oinline_budget=800 +Optrs_strongly_typed
            -Wl,-a,archive +Ostatic_prediction
256.bzip2: +I/+P +Oall +Odataprefetch +Optrs_strongly_typed +Owhole_program_mode
         +Onoptrs_to_globals +Oinline_budget=80 -Wl,-a,archive +Ostatic_prediction
300.twolf: +I/+P +Oall +Optrs_strongly_typed -Wl,-a,archive +Ostatic_prediction
```

Operating system configuration notes:

```
vps_pagesize 4096, vps_ceiling 16384
dbc_min_pct=20, dbc_max_pct=20
maxssiz=0x10000000
```