



CINT2000 Result

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Hewlett-Packard Company
hp workstation j6750

SPECint2000 = 676
SPECint_base2000 = 641

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	238	588	237	590	
175.vpr	1400	204	686	204	686	
176.gcc	1100	122	903	122	903	
181.mcf	1800	367	490	375	480	
186.crafty	1000	133	754	133	754	
197.parser	1800	364	495	342	527	
252.eon	1300	219	593	191	680	
253.perlbnk	1800	290	620	245	736	
254.gap	1100	324	339	307	358	
255.vortex	1900	160	1191	150	1266	
256.bzip2	1500	280	536	244	614	
300.twolf	3000	328	915	322	932	

Hardware

CPU: PA-8700+
CPU MHz: 875
FPU: Integrated
CPU(s) enabled: 1 core, 1 chip, 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.gzip: +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
2nd processor disabled at boot - co cpu 1 OFF
```