



CINT2000 Result

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Hewlett-Packard Company
hp server rp7400

SPECint_rate2000 = 11.3
SPECint_rate_base2000 = 10.6

SPEC license #: 3 Tested by: HP Richardson Test date: Oct-2001 Hardware Avail: Sep-2001 Software Avail: Sep-2001

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	2	324	10.0	2	323	10.1
175.vpr	2	292	11.1	2	292	11.1
176.gcc	2	176	14.5	2	173	14.7
181.mcf	2	531	7.86	2	500	8.36
186.crafty	2	179	12.9	2	179	12.9
197.parser	2	470	8.88	2	437	9.56
252.eon	2	295	10.2	2	256	11.8
253.perlbnk	2	404	10.3	2	346	12.1
254.gap	2	504	5.07	2	478	5.34
255.vortex	2	228	19.3	2	216	20.4
256.bzip2	2	406	8.57	2	349	9.97
300.twolf	2	445	15.6	2	427	16.3

Hardware

CPU: PA-8700
 CPU MHz: 650
 FPU: Integrated
 CPU(s) enabled: 2 cores, 2 chips, 1 core/chip
 CPU(s) orderable: 1 to 8
 Parallel: No
 Primary Cache: 0.75MBI + 1.5MBD on chip
 Secondary Cache: None
 L3 Cache: None
 Other Cache: None
 Memory: 16GB
 Disk Subsystem: 2x9GB SCSI disk
 Other Hardware: None

Software

Operating System: B.11.11.0109.6 HP-UX 11i, September 2001 HWE patches
 Compiler: HP ANSI C 11.11.03
 aC++ C.03.30.02
 PHSS_24207 libm patch
 File System: HFS
 System State: Multi-user

Notes/Tuning Information

Portability Flags:

```
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
```

Base Flags:

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

Peak Flags:

```
164.gzip: +Oall +Optrs_strongly_typed +Oinline_budget=800
        +I/+P +Ostatic_prediction -Wl,-aarchive
175.vpr: basepeak=true
176.gcc: +Oall +ESlit +ESfic +Optrs_strongly_typed
        +I/+P +Ostatic_prediction -Wl,-aarchive
```



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Notes/Tuning Information (Continued)

```

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

```

System tunables:

```

vps_pagesize 4096, vps_ceiling 16384
dbc_min_pct 20, dbc_max_pct 20
maxdsiz 2063835136, maxssiz 401604608
Unused processors disabled at boot

```