



CINT2000 Result

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Hewlett-Packard Company
hp server rp5470

SPECint_rate2000 = 5.69
SPECint_rate_base2000 = 5.40

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	1	322	5.04	1	321	5.07
175.vpr	1	281	5.78	1	281	5.78
176.gcc	1	174	7.32	1	173	7.39
181.mcf	1	461	4.53	1	486	4.30
186.crafty	1	179	6.47	1	179	6.47
197.parser	1	470	4.44	1	436	4.79
252.eon	1	295	5.12	1	256	5.90
253.perlbnk	1	403	5.18	1	345	6.05
254.gap	1	502	2.54	1	476	2.68
255.vortex	1	227	9.70	1	215	10.3
256.bzip2	1	403	4.32	1	346	5.03
300.twolf	1	445	7.82	1	426	8.17

Hardware	Software
CPU: PA-8700	Operating System: B.11.11.0109.6 HP-UX 11i, September 2001 HWE patches
CPU MHz: 650	Compiler: HP ANSI C 11.11.03
FPU: Integrated	aC++ C.03.30.02
CPU(s) enabled: 1 core, 1 chip, 1 core/chip	PHSS_24207 libm patch
CPU(s) orderable: 1 to 4	File System: HFS
Parallel: No	System State: Multi-user
Primary Cache: 0.75MBI + 1.5MBD on chip	
Secondary Cache: None	
L3 Cache: None	
Other Cache: None	
Memory: 4GB	
Disk Subsystem: 18GB SCSI disk	
Other Hardware: None	

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
```