CINT2000 Result

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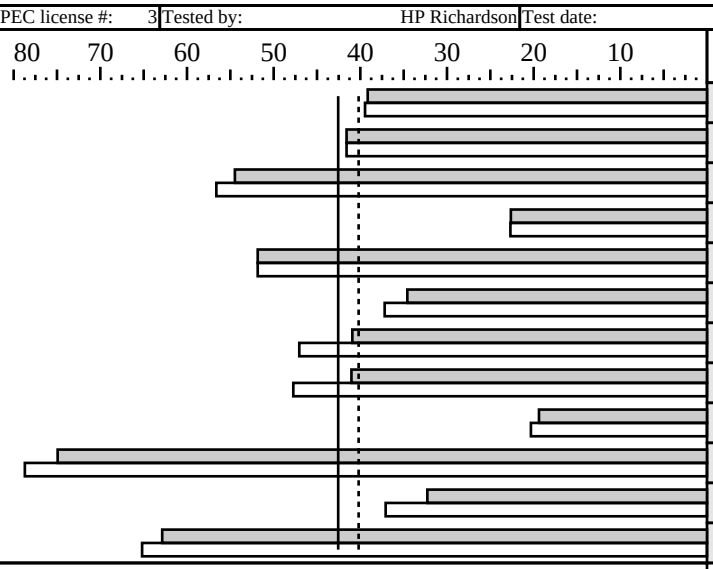
Hewlett-Packard Company
hp server rp7400

SPECint_rate2000 = 42.6

SPECint_rate_base2000 = 40.2

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	8	332	39.1	8	329	39.5
175.vpr	8	312	41.6	8	312	41.6
176.gcc	8	187	54.5	8	180	56.6
181.mcf	8	738	22.6	8	736	22.7
186.crafty	8	179	51.8	8	179	51.8
197.parser	8	483	34.6	8	449	37.2
252.eon	8	295	40.9	8	256	47.0
253.perlbmk	8	407	41.0	8	350	47.7
254.gap	8	527	19.4	8	502	20.3
255.vortex	8	235	74.9	8	224	78.7
256.bzip2	8	431	32.3	8	375	37.1
300.twolf	8	443	62.9	8	427	65.2

Hardware

CPU:	PA-8700
CPU MHz:	650
FPU:	Integrated
CPU(s) enabled:	8 cores, 8 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.perlbmk: -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.perlbmk: +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
```