CINT2000 Result

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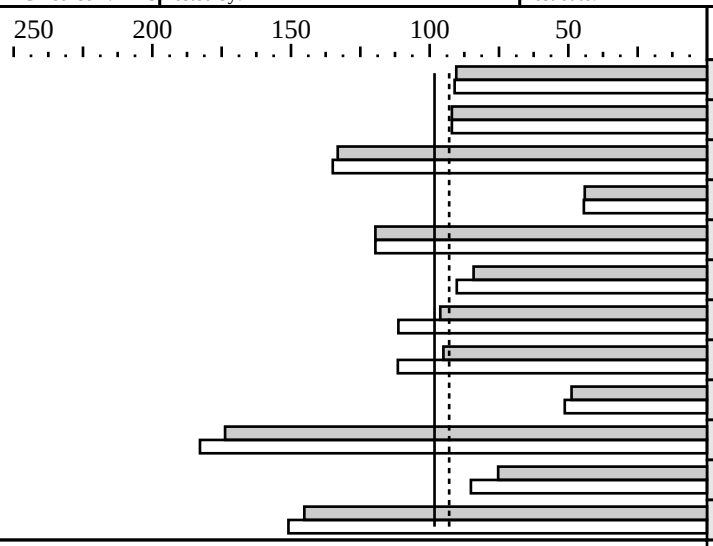
Hewlett-Packard Company
hp server rp8400

SPECint_rate2000 = 98.2

SPECint_rate_base2000 = 93.0

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



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	16	287	90.4	16	286	91.0
175.vpr	16	282	92.0	16	282	92.0
176.gcc	16	153	133	16	151	135
181.mcf	16	758	44.1	16	752	44.4
186.crafty	16	155	120	16	155	120
197.parser	16	397	84.2	16	370	90.2
252.eon	16	251	96.2	16	217	111
253.perlbmk	16	351	95.0	16	300	111
254.gap	16	418	48.8	16	398	51.3
255.vortex	16	203	174	16	193	183
256.bzip2	16	370	75.3	16	327	85.1
300.twolf	16	383	145	16	369	151

Hardware

CPU:	PA-8700
CPU MHz:	750
FPU:	Integrated
CPU(s) enabled:	16 cores, 16 chips, 1 core/chip
CPU(s) orderable:	2 to 16 by 2
Parallel:	No
Primary Cache:	0.75MBI + 1.5MBD on chip
Secondary Cache:	None
L3 Cache:	None
Other Cache:	None
Memory:	32GB
Disk Subsystem:	8x36GB SCSI
Other Hardware:	4 cells

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:	Advanced JFS
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
  181.mcf:  +Oall +Owhole_program_mode +Opromote_indirect_calls
```

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Notes/Tuning Information (Continued)

```
              +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 0x7b03a000, maxssiz 256000000
    boot time firmware tunable DataPrefetch enabled (default)
```