CINT2000 Result

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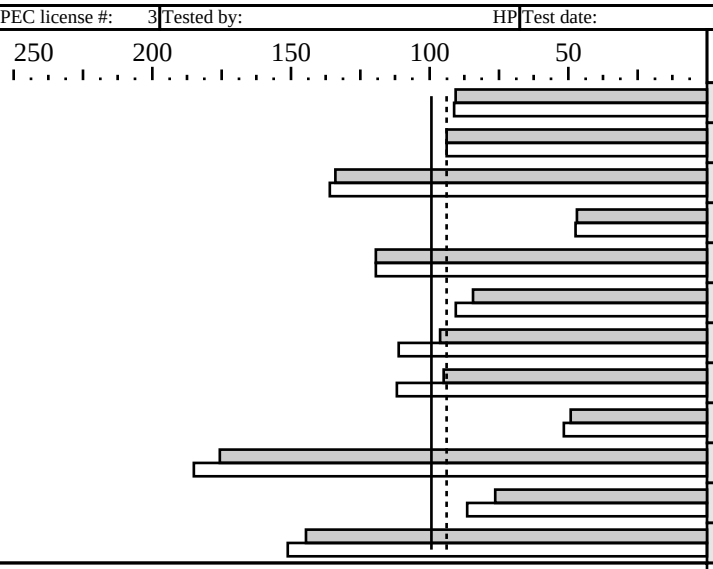
Hewlett-Packard Company

HP Superdome 16-way (750MHz PA-8700)

SPECint_rate2000 = 99.4

SPECint_rate_base2000 = 93.9

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



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	16	287	90.6	16	285	91.2
175.vpr	16	277	93.9	16	277	93.9
176.gcc	16	152	134	16	150	136
181.mcf	16	712	46.9	16	705	47.4
186.crafty	16	155	119	16	155	119
197.parser	16	396	84.4	16	369	90.6
252.eon	16	251	96.2	16	217	111
253.perlbmk	16	352	95.0	16	299	112
254.gap	16	415	49.1	16	396	51.6
255.vortex	16	201	176	16	191	185
256.bzip2	16	365	76.4	16	322	86.5
300.twolf	16	385	145	16	368	151

Hardware

CPU:	PA-8700
CPU MHz:	750
FPU:	Integrated
CPU(s) enabled:	16 cores, 16 chips, 1 core/chip
CPU(s) orderable:	2-16
Parallel:	No
Primary Cache:	0.75MBI + 1.5MBD on chip
Secondary Cache:	none
L3 Cache:	none
Other Cache:	none
Memory:	64GB
Disk Subsystem:	5x9GB Fiberchannel (striped) 1x9GB SCSI disk (root), 4x9GB FC disks (swap)
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:	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 0x7b03a000, maxssiz 256000000
    boot time firmware tunable DataPrefetch enabled (default)
```