CINT2000 Result

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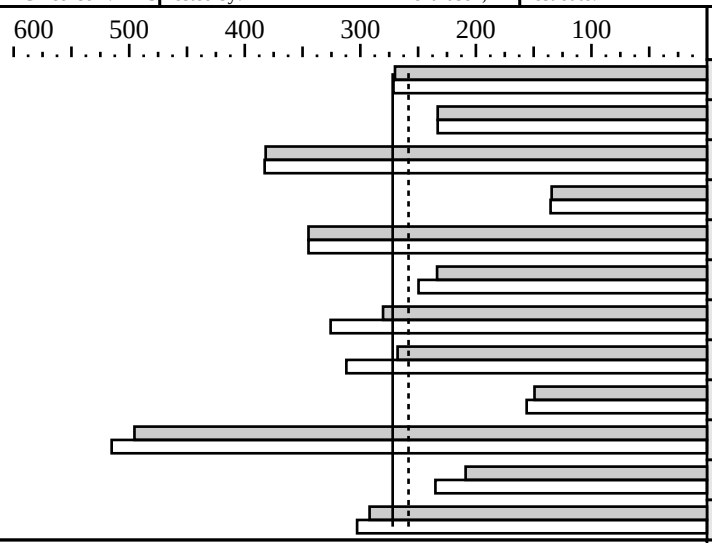
Hewlett-Packard Company

HP9000 Superdome 64-way (552MHz PA-8600)

SPECint_rate2000 = 272

SPECint_rate_base2000 = 258

SPEC license #: 3 | Tested by: HP Richardson, TX | Test date: Mar-2001 | Hardware Avail: May-2001 | Software Avail: Jul-2001



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	64	385	270	64	383	271
175.vpr	64	446	233	64	446	233
176.gcc	64	214	382	64	213	383
181.mcf	64	994	134	64	987	135
186.crafty	64	215	345	64	215	345
197.parser	64	572	234	64	535	250
252.eon	64	344	280	64	296	326
253.perlbmk	64	499	268	64	428	312
254.gap	64	547	149	64	523	156
255.vortex	64	285	495	64	274	515
256.bzip2	64	533	209	64	474	235
300.twolf	64	763	292	64	736	303

Hardware

CPU:	PA-8600
CPU MHz:	552
FPU:	Integrated
CPU(s) enabled:	64 cores, 64 chips, 1 core/chip
CPU(s) orderable:	8-64
Parallel:	No
Primary Cache:	0.5MBI + 1.0MBD on chip
Secondary Cache:	none
L3 Cache:	N/A
Other Cache:	N/A
Memory:	256GB
Disk Subsystem:	5x9GB Fiberchannel (striped) 1x9GB SCSI disk (root), 30x9GB FC disks (swap)
Other Hardware:	16 cells, 500MHz CEC

Software

Operating System:	HP-UX 11i Technical Computing OE
Compiler:	HP ANSI C 11.11.02 aC++ C.03.30.1
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 +Ostaticprediction -Wl,-aarchive
  C++: +O3 +I/+P +Ostaticprediction -Wl,-aarchive

Peak Flags:

  all: +I/+P +Ostaticprediction -Wl,-a,archive
  164.gzip: +Oall +Optrs_strongly_typed +Oinline_budget=800
  175.vpr:  basepeak=true
  176.gcc:  +Oall +ESlit +ESfic +Optrs_strongly_typed
  181.mcf:  +Oall +Owhole_program_mode +Opromote_indirect_calls
```

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Notes/Tuning Information (Continued)

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

  System tunables:
  vps_pagesize 4096, vps_ceiling 16384
  dbc_min_pct 20, dbc_max_pct 20
  maxdsiz 0x7b03a000, maxssiz 256000000
  DataPrefetch enabled (boot time firmware tunable)
```