CINT2000 Result

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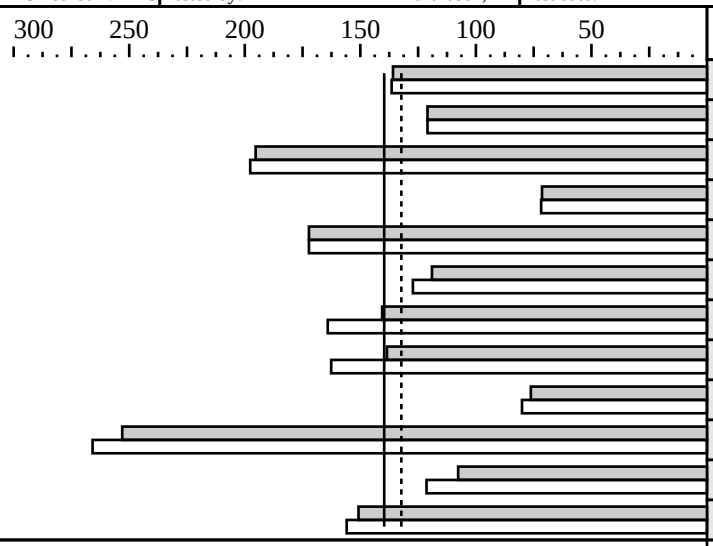
Hewlett-Packard Company

HP9000 Superdome 32-way (552MHz PA-8600)

SPECint_rate2000 = 140

SPECint_rate_base2000 = 132

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	32	382	136	32	381	136
175.vpr	32	430	121	32	430	121
176.gcc	32	209	195	32	207	198
181.mcf	32	936	71.4	32	931	71.8
186.crafty	32	216	172	32	216	172
197.parser	32	561	119	32	525	127
252.eon	32	343	141	32	294	164
253.perlbmk	32	482	138	32	411	163
254.gap	32	536	76.2	32	510	80.0
255.vortex	32	279	253	32	265	266
256.bzip2	32	517	108	32	459	121
300.twolf	32	738	151	32	714	156

Hardware

CPU:	PA-8600
CPU MHz:	552
FPU:	Integrated
CPU(s) enabled:	32 cores, 32 chips, 1 core/chip
CPU(s) orderable:	4-32
Parallel:	No
Primary Cache:	0.5MBI + 1.0MBD on chip
Secondary Cache:	none
L3 Cache:	N/A
Other Cache:	N/A
Memory:	128GB
Disk Subsystem:	5x9GB Fiberchannel (striped) 1x9GB SCSI disk (root), 15x9GB FC disks (swap)
Other Hardware:	8 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)
```