CINT2000 Result

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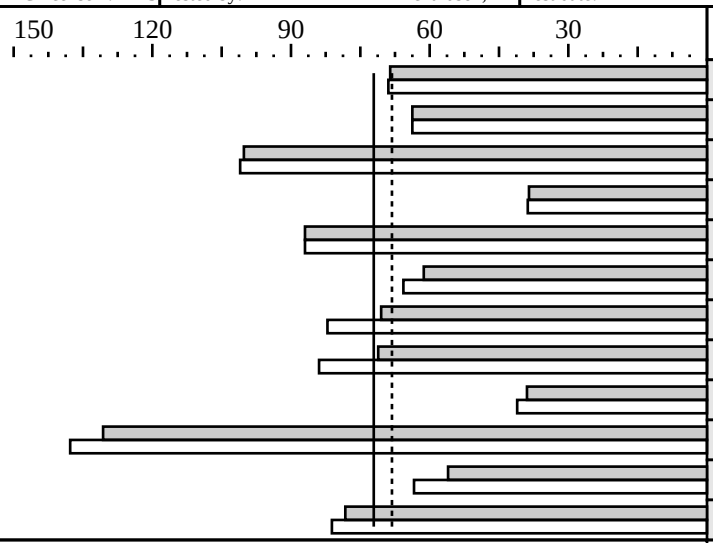
Hewlett-Packard Company

HP9000 Superdome 16-way (552MHz PA-8600)

SPECint_rate2000 = 72.1

SPECint_rate_base2000 = 68.2

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	16	379	68.5	16	377	68.9
175.vpr	16	408	63.7	16	408	63.7
176.gcc	16	204	100	16	202	101
181.mcf	16	867	38.5	16	862	38.8
186.crafty	16	213	87.0	16	213	87.0
197.parser	16	545	61.3	16	509	65.7
252.eon	16	342	70.5	16	294	82.1
253.perlbmk	16	470	71.1	16	398	83.9
254.gap	16	524	38.9	16	497	41.1
255.vortex	16	270	131	16	256	138
256.bzip2	16	497	56.0	16	439	63.4
300.twolf	16	712	78.2	16	686	81.2

Hardware

CPU:	PA-8600
CPU MHz:	552
FPU:	Integrated
CPU(s) enabled:	16 cores, 16 chips, 1 core/chip
CPU(s) orderable:	2-16
Parallel:	No
Primary Cache:	0.5MBI + 1.0MBD on chip
Secondary Cache:	none
L3 Cache:	N/A
Other Cache:	N/A
Memory:	64GB
Disk Subsystem:	5x9GB Fiberchannel (striped) 1x9GB SCSI disk (root), 5x9GB FC disks (swap)
Other Hardware:	4 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)
```