



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.perlbnk	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.perlbnk: -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 +ESflic +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.perlbnk: +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)
```