CINT2000 Result

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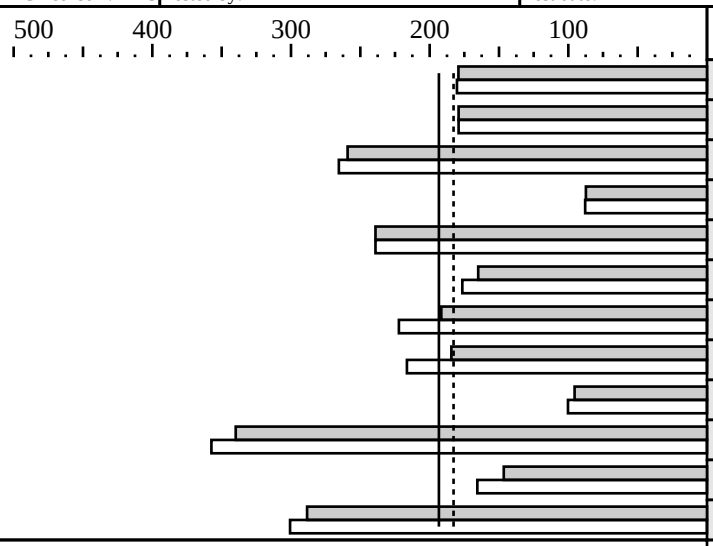
Hewlett-Packard Company

HP Superdome 32-way (750MHz PA-8700)

SPECint_rate2000 = 193

SPECint_rate_base2000 = 183

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	32	290	179	32	288	180
175.vpr	32	290	179	32	290	179
176.gcc	32	158	259	32	154	265
181.mcf	32	765	87.3	32	760	87.9
186.crafty	32	155	239	32	155	239
197.parser	32	405	165	32	379	176
252.eon	32	252	192	32	217	222
253.perlbmk	32	362	184	32	309	216
254.gap	32	428	95.5	32	407	100
255.vortex	32	208	340	32	197	357
256.bzip2	32	380	147	32	336	166
300.twolf	32	386	288	32	370	301

Hardware

CPU:	PA-8700
CPU MHz:	750
FPU:	Integrated
CPU(s) enabled:	32 cores, 32 chips, 1 core/chip
CPU(s) orderable:	4-32
Parallel:	No
Primary Cache:	0.75MBI + 1.5MBD on chip
Secondary Cache:	none
L3 Cache:	none
Other Cache:	none
Memory:	128GB
Disk Subsystem:	5x9GB Fiberchannel (striped) 1x9GB SCSI disk (root), 14x9GB FC disks (swap)
Other Hardware:	8 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)
```