



CINT2000 Result

Copyright ©1999-2004, Standard Performance Evaluation Corporation

Hewlett-Packard Company
hp server rp8400

SPECint_rate2000 = 98.2
SPECint_rate_base2000 = 93.0

SPEC license #: 3 Tested by: HP Test date: Aug-2001 Hardware Avail: Sep-2001 Software Avail: Sep-2001

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	16	287	90.4	16	286	91.0
175.vpr	16	282	92.0	16	282	92.0
176.gcc	16	153	133	16	151	135
181.mcf	16	758	44.1	16	752	44.4
186.crafty	16	155	120	16	155	120
197.parser	16	397	84.2	16	370	90.2
252.eon	16	251	96.2	16	217	111
253.perlbnk	16	351	95.0	16	300	111
254.gap	16	418	48.8	16	398	51.3
255.vortex	16	203	174	16	193	183
256.bzip2	16	370	75.3	16	327	85.1
300.twolf	16	383	145	16	369	151

Hardware

CPU: PA-8700
CPU MHz: 750
FPU: Integrated
CPU(s) enabled: 16 cores, 16 chips, 1 core/chip
CPU(s) orderable: 2 to 16 by 2
Parallel: No
Primary Cache: 0.75MBI + 1.5MBD on chip
Secondary Cache: None
L3 Cache: None
Other Cache: None
Memory: 32GB
Disk Subsystem: 8x36GB SCSI
Other Hardware: 4 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: Advanced JFS
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 +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
181.mcf: +Oall +Owhole_program_mode +Opromote_indirect_calls



CINT2000 Result

Copyright ©1999-2004, Standard Performance Evaluation Corporation

Hewlett-Packard Company
hp server rp8400

SPECint_rate2000 = 98.2
SPECint_rate_base2000 = 93.0

SPEC license #: 3 | Tested by: HP | Test date: Aug-2001 | Hardware Avail: Sep-2001 | Software Avail: Sep-2001

Notes/Tuning Information (Continued)

```
+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.perlbnk: +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)
```