



CINT2000 Result

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Hewlett-Packard Company
hp server rp7410 (875MHz PA-8700+)

SPECint_rate2000 = 55.8
SPECint_rate_base2000 = 53.1

SPEC license #:	3	Tested by:	HP	Test date:	Jun-2002	Hardware Avail:	Aug-2002	Software Avail:	Jun-2002		
					Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
120	100	80	60	40	164.gzip	8	247	52.6	8	246	52.7
					175.vpr	8	245	53.1	8	245	53.1
					176.gcc	8	130	78.4	8	130	78.4
					181.mcf	8	700	23.9	8	700	23.9
					186.crafty	8	133	69.8	8	133	69.8
					197.parser	8	388	43.0	8	364	45.9
					252.eon	8	223	54.1	8	193	62.5
					253.perlbench	8	297	56.2	8	258	64.9
					254.gap	8	357	28.6	8	339	30.1
					255.vortex	8	174	101	8	165	107
					256.bzip2	8	320	43.5	8	285	48.9
					300.twolf	8	330	84.5	8	325	85.7

Hardware

CPU: PA-8700+
CPU MHz: 875
FPU: Integrated
CPU(s) enabled: 8 cores, 8 chips, 1 core/chip
CPU(s) orderable: 2 to 8 by 2
Parallel: No
Primary Cache: 0.75MB(I) + 1.5MB(D) on chip
Secondary Cache: None
L3 Cache: None
Other Cache: None
Memory: 16GB (32x512MB DIMMs total)
Disk Subsystem: 2x18 GB SCSI
Other Hardware: None

Operating System:
Compiler:

Software

HP-UX 11i TCOE B.11.11.0206.5
HP ANSI C compiler B.11.11.04
HP aC++ compiler C.03.33.01
PHCO_24402 libc cumulative header file patch
PHCO_26124 libc cumulative patch
PHSS_24207 libm patch
PHSS_25719 libCL patch
PHSS_26263 ld(1) and linker tools cumulative patch
PHSS_26264 linker startup code / SLLIC ELF support
PHSS_26792 Ansi C compiler cumulative patch
PHSS_26793 +O4/PBO optimizer cumulative patch
PHSS_26952 aC++ cumulative patch (A.03.35)
File System: OnLine JFS
System State: Multi-user

Notes/Tuning Information

Portability:

```
176.gcc: -DHOST_WORDS_BIG_ENDIAN
186.crafty: -DHP
252.eon: -DFMAX_IS_DOUBLE
253.perlbench: -DSPEC_CPU2000_HP
254.gap: -DSPEC_CPU2000_HP -DSYS_IS_USG -DSYS_HAS_IOCTL_PROTO
          -DSYS_HAS_TIME_PROTO -DSYS_HAS_CALLOC_PROTO
```

Baseline compile flags:

```
C      : +I/+P +Oall +Ostatic_prediction -Wl,-a,archive
C++    : +I/+P +O3 +Ostatic_prediction -Wl,-a,archive
```

Peak compile flags:

```
164.gzip: +I/+P +Oall +Optrs_strongly_typed +Oinline_budget=800
          -Wl,-a,archive +Ostatic_prediction
175.vpr: basepeak=true
176.gcc: basepeak=true
181.mcf: basepeak=true
186.crafty: basepeak=true
```



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Hardware Avail:

Aug-2002

Software Avail:

Jun-2002

Notes/Tuning Information (Continued)

```
197.parser: +I/+P +Oall +Odataprefetch +ESfic +Oinline_budget=400
            +Owhole_program_mode -Wl,-a,archive +Ostatic_prediction
  252.eon:  +I/+P +noeh +O4 +Optrs_strongly_typed +Olibcalls +Oentrysched
            +A +ESfic -Wl,-a,archive +Ostatic_prediction
253.perlbmk: +I/+P +Oall +ESlit +ESfic +Optrs_strongly_typed
            +Opromote_indirect_calls -Wl,-a,archive +Ostatic_prediction
            linked with /opt/langtools/lib/fastmem.o
  254.gap:  +I/+P +Oall +ESlit +ESfic +Optrs_strongly_typed
            +Opromote_indirect_calls -Wl,-a,archive +Ostatic_prediction
255.vortex: +I/+P +Oall +Oinline_budget=800 +Optrs_strongly_typed
            -Wl,-a,archive +Ostatic_prediction
  256.bzip2: +I/+P +Oall +Odataprefetch +Optrs_strongly_typed +Owhole_program_mode
            +Onoptrs_to_globals +Oinline_budget=80 -Wl,-a,archive +Ostatic_prediction
300.twolf:  +I/+P +Oall +Optrs_strongly_typed -Wl,-a,archive +Ostatic_prediction
```

Hardware configuration notes:

System was configured as a single partition with 2 cells
boot time firmware tunable DataPrefetch enabled (default)

Operating system configuration notes:

```
PHKL_25778 LVM cumulative patch
PHKL_25886 Filesystem buffercache performance fix

vps_pagesize 4096, vps_ceiling 16384
dbc_min_pct=20, dbc_max_pct=20
maxssiz=0x10000000

filesystem used for spec runs mounted delaylog
```