



CINT2000 Result

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Hewlett-Packard Company
hp server rp2470

SPECint2000 = 581
SPECint_base2000 = 549

SPEC license #: 3 Tested by: Hewlett-Packard Company Test date: Jan-2002 Hardware Avail: Mar-2002 Software Avail: Dec-2001

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	279	502	276	507	
175.vpr	1400	231	607	231	607	
176.gcc	1100	145	757	145	757	
181.mcf	1800	347	518	347	518	
186.crafty	1000	156	642	156	642	
197.parser	1800	442	407	413	436	
252.eon	1300	266	488	229	568	
253.perlbnk	1800	347	518	299	602	
254.gap	1100	409	269	386	285	
255.vortex	1900	189	1004	177	1072	
256.bzip2	1500	332	452	285	525	
300.twolf	3000	384	781	378	794	

Hardware

CPU: PA-8700
CPU MHz: 750
FPU: Integrated
CPU(s) enabled: 1 core, 1 chip, 1 core/chip
CPU(s) orderable: 1-2
Parallel: No
Primary Cache: 0.75MB(I) + 1.5MB(D) on chip
Secondary Cache: None
L3 Cache: None
Other Cache: None
Memory: 8GB (8x1GB DIMMs)
Disk Subsystem: 1x36 GB SCSI
Other Hardware:

Software

Operating System: HP-UX 11i B.11.11.0112
Compiler: HP ANSI C B11.11.04
HP aC++ Compiler C.03.33.01
File System: VxFS
System State: Multi-user

Notes/Tuning Information

Portability:

```
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
```

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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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.perlbnk: +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
```

Operating system configuration notes:

```
vps_pagesize 4096, vps_ceiling 16384
dbc_min_pct 15, dbc_max_pct 15
maxdsiz_64bit 0x4000000000, maxssiz_64bit 0x400000000
nfile 8192
Unused processors disabled at boot.
```