



CINT2000 Result

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Hewlett-Packard Company
HP Integrity Server rx5670 (1500 MHz, Itanium 2)

SPECint_rate2000 = 60.0
SPECint_rate_base2000 = 60.0

SPEC license #: 3 Tested by: HP Richardson Test date: Jul-2003 Hardware Avail: Sep-2003 Software Avail: Sep-2003

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	4	145	44.8	4	145	44.8
175.vpr	4	127	51.1	4	127	51.1
176.gcc	4	74.5	68.6	4	74.5	68.6
181.mcf	4	82.5	101	4	82.5	101
186.crafty	4	81.4	57.0	4	81.4	57.0
197.parser	4	182	45.8	4	182	45.8
252.eon	4	84.2	71.6	4	84.2	71.6
253.perlbnk	4	150	55.7	4	150	55.7
254.gap	4	116	44.1	4	116	44.1
255.vortex	4	98.3	89.7	4	98.3	89.7
256.bzip2	4	124	56.2	4	124	56.2
300.twolf	4	234	59.4	4	234	59.4

Hardware

CPU: Intel Itanium 2
 CPU MHz: 1500
 FPU: Integrated
 CPU(s) enabled: 4 cores, 4 chips, 1 core/chip
 CPU(s) orderable: 1-4
 Parallel: no
 Primary Cache: 16KBI + 16KBD (on chip) per CPU
 Secondary Cache: 256KB (on chip) per CPU
 L3 Cache: 6.0MB (on chip) per CPU
 Other Cache: N/A
 Memory: 24GB (48 x 512MB DIMMs on 2 memory carriers)
 Disk Subsystem: 1x36GB 15k RPM SCSI disk
 Other Hardware: N/A

Software

Operating System: HPUX11i-TCOE B.11.23
 Compiler: HP C/ANSI C Compiler B.11.23
 HP aC++ Compiler B.11.23
 File System: vxfs
 System State: Multi-user

Notes/Tuning Information

Portability Flags

```
176.gcc : -DHOST_WORDS_BIG_ENDIAN
181.mcf : -DWANT_STDC_PROTO
186.crafty : -DHP
252.eon : -I. -DFMAX_IS_DOUBLE -DNDEBUG
          -DSPEC_CPU2000_LP64 (because of 64-bit compile)
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

```
all : +Oprofile=collect:all/+Oprofile=use
C : +Ofaster -exec +Odatalayout
C++ : +Ofaster +inline_level 2 -minshared +DD64
```

Peak Flags

same as baseline (basepeak=true set globally)

Kernel Tunables:



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Notes/Tuning Information (Continued)

```
maxdsiz          0x7b03a000
maxdsiz_64bit    0x0400000000
maxssiz          0x10000000
maxssiz_64bit   0x40000000
vps_ceiling      16384
vps_pagesize     4096
swapmem_on       0
dbc_max_pct      20
dbc_min_pct      20
```

Note:

EFI shell utility 'cpuconfig' used
to deconfigure processors if necessary