



CINT2000 Result

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Hewlett-Packard Company
HP Integrity Server rx5670 (1300 MHz, Itanium 2)

SPECint_rate2000 = 24.5
SPECint_rate_base2000 = 24.2

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	2	166	19.6	2	166	19.6
175.vpr	2	157	20.7	2	152	21.4
176.gcc	2	86.5	29.5	2	86.5	29.5
181.mcf	2	184	22.6	2	184	22.6
186.crafty	2	96.6	24.0	2	96.6	24.0
197.parser	2	225	18.5	2	225	18.5
252.eon	2	98.0	30.8	2	94.4	32.0
253.perlbnk	2	175	23.8	2	169	24.7
254.gap	2	120	21.2	2	120	21.2
255.vortex	2	120	36.9	2	117	37.7
256.bzip2	2	152	23.0	2	152	23.0
300.twolf	2	270	25.8	2	265	26.3

Hardware

CPU: Intel Itanium 2
CPU MHz: 1300
FPU: Integrated
CPU(s) enabled: 2 cores, 2 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: 3.0MB (on chip) per CPU
Other Cache: N/A
Memory: 24GB (12 x 512MB DIMMs on 2 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
PHSS_29655 aC++ Compiler
PHSS_29656 HP C Compiler
PHSS_29657 u2comp/be/plugin library Patch
PHSS_29658 Aries
File System: vxfs
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

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

Peak Flags

164.gzip : basepeak=true
175.vpr : PBO +Ofaster +Odatalayout +Onorecovery
+Onoptrs_to_globals -exec
LIBS = -Wl,-aarchive_shared -Bprotected
176.gcc : basepeak=true
181.mcf : basepeak=true



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Notes/Tuning Information (Continued)

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186.crafty : basepeak=true
197.parser : basepeak=true
252.eon     : PBO +Ofaster +Odatalayout +Otype_safety=ansi
             +inline_level 2 -minshared
253.perlbnk: PBO +Ofaster +Odatalayout +Onoptrs_to_globals -exec
             LIBS = -Wl,-aarchive_shared -Bprotected_def fastmem.o
254.gap     : basepeak=true
255.vortex  : PBO +Ofaster +Odatalayout +Onorecovery
             +Onoptrs_to_globals -exec
             LIBS = -Wl,-aarchive_shared -Bprotected
256.bzip2   : basepeak=true
300.twolf   : PBO +Ofaster +Odatalayout +Onoptrs_to_globals -exec
             LIBS = -Wl,-aarchive_shared -Bprotected_data effmem.o

```

Kernel Tunables:

```

maxdsiz           0x7b03a000
maxdsiz_64bit    0x04000000000
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

```