



CINT2000 Result

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

SPECint_rate2000 = 12.4
SPECint_rate_base2000 = 12.2

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	1	166	9.79	1	166	9.79
175.vpr	1	156	10.4	1	151	10.8
176.gcc	1	86.2	14.8	1	86.2	14.8
181.mcf	1	178	11.7	1	178	11.7
186.crafty	1	96.6	12.0	1	96.6	12.0
197.parser	1	224	9.31	1	224	9.31
252.eon	1	97.4	15.5	1	93.8	16.1
253.perlbnk	1	176	11.9	1	169	12.3
254.gap	1	116	11.0	1	116	11.0
255.vortex	1	119	18.5	1	117	18.9
256.bzip2	1	151	11.5	1	151	11.5
300.twolf	1	270	12.9	1	265	13.1

Hardware

CPU: Intel Itanium 2
 CPU MHz: 1300
 FPU: Integrated
 CPU(s) enabled: 1 core, 1 chip, 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

```