



CINT2000 Result

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

SPECint2000 = **1066**
SPECint_base2000 = **1052**

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	166	844	166	844	
175.vpr	1400	156	899	151	929	
176.gcc	1100	86.2	1276	86.2	1276	
181.mcf	1800	178	1012	178	1012	
186.crafty	1000	96.6	1036	96.6	1036	
197.parser	1800	224	802	224	802	
252.eon	1300	97.4	1334	93.8	1386	
253.perlbnk	1800	176	1024	169	1064	
254.gap	1100	116	945	116	945	
255.vortex	1900	119	1594	117	1627	
256.bzip2	1500	151	992	151	992	
300.twolf	3000	270	1111	265	1134	

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.mfc : basepeak=true
```



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Notes/Tuning Information (Continued)

```

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

```