



CINT2000 Result

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Hewlett-Packard Company
HP Integrity Server rx4640 (1500 MHz, Itanium 2)

SPECint2000 = **1404**
SPECint_base2000 = **1380**

SPEC license #: 3 Tested by: HP Richardson Test date: Jan-2004 Hardware Avail: Jan-2004 Software Avail: Mar-2004

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
164.gzip	1400	148	944	148	944
175.vpr	1400	120	1167	119	1172
176.gcc	1100	69.9	1574	69.9	1574
181.mcf	1800	72.8	2473	72.8	2473
186.crafty	1000	80.6	1241	80.6	1241
197.parser	1800	176	1022	176	1022
252.eon	1300	74.0	1757	69.7	1864
253.perlbmk	1800	146	1230	132	1368
254.gap	1100	96.6	1139	96.6	1139
255.vortex	1900	97.4	1950	96.7	1965
256.bzip2	1500	111	1352	111	1352
300.twolf	3000	221	1357	216	1390

Hardware

CPU: Intel Itanium 2
 CPU MHz: 1500
 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: 6.0MB (on chip) per CPU
 Other Cache: N/A
 Memory: 32GB (16 * 2GB DIMMs)
 Disk Subsystem: 1x36GB 10k RPM SCSI disk
 Other Hardware: N/A

Software

Operating System: HPUX11i-TCOE B.11.23
 Compiler: HP C/ANSI C Compiler C.05.55
 HP aC++ Compiler C.05.55
 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.perlbmk: -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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SPECint2000 = 1404
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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:

```

maxssiz          268435456
vps_ceiling      16384
vps_pagesize     4096
swapmem_on       1
dbc_max_pct      20
dbc_min_pct      20

```

Note:

```

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

```