



# CINT2000 Result

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

SPECint\_rate2000 = **48.6**  
SPECint\_rate\_base2000 = **48.0**

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	4	167	39.0	4	167	39.0
175.vpr	4	158	41.1	4	153	42.5
176.gcc	4	87.4	58.4	4	87.4	58.4
181.mcf	4	196	42.7	4	196	42.7
186.crafty	4	95.7	48.5	4	95.7	48.5
197.parser	4	222	37.7	4	222	37.7
252.eon	4	97.8	61.7	4	94.3	64.0
253.perlbnk	4	175	47.6	4	169	49.5
254.gap	4	128	39.8	4	128	39.8
255.vortex	4	120	73.6	4	117	75.2
256.bzip2	4	152	45.7	4	152	45.7
300.twolf	4	270	51.5	4	264	52.7

**Hardware**

CPU: Intel Itanium 2  
CPU MHz: 1300  
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: 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)

```

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

```