



# CINT2000 Result

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**Hewlett-Packard Company**  
HP Integrity Server rx1600 (1000 MHz, Itanium 2)

SPECint\_rate2000 = 9.71  
SPECint\_rate\_base2000 = 9.59

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	1	219	7.40	1	219	7.40
175.vpr	1	210	7.74	1	209	7.78
176.gcc	1	109	11.7	1	109	11.7
181.mcf	1	248	8.42	1	248	8.42
186.crafty	1	123	9.46	1	123	9.46
197.parser	1	287	7.28	1	287	7.28
252.eon	1	108	14.0	1	105	14.4
253.perlbnk	1	219	9.55	1	203	10.3
254.gap	1	136	9.37	1	136	9.37
255.vortex	1	159	13.9	1	157	14.0
256.bzip2	1	201	8.68	1	201	8.68
300.twolf	1	337	10.3	1	325	10.7

### Hardware

CPU: Intel Itanium 2  
CPU MHz: 1000  
FPU: Integrated  
CPU(s) enabled: 1 core, 1 chip, 1 core/chip  
CPU(s) orderable: 1-2  
Parallel: no  
Primary Cache: 16KBI + 16KBD (on chip) per CPU  
Secondary Cache: 256KB (on chip) per CPU  
L3 Cache: 1.5MB (on chip) per CPU  
Other Cache: N/A  
Memory: 8GB (8 \* 1GB DIMMs)  
Disk Subsystem: 1x147GB 10k RPM SCSI disk  
Other Hardware: N/A

### Software

Operating System: HPUX11i-TCOE B.11.23  
Compiler: HP C/ANSI C Compiler B.11.23 (C.05.55)  
HP aC++ Compiler B.11.23 (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.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

```