



# CINT2000 Result

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**Hewlett-Packard Company**  
HP Integrity Server rx4640 (1300 MHz, Itanium 2)

SPECint2000 = 1132  
SPECint\_base2000 = 1117

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	170	821	170	821	
175.vpr	1400	148	945	147	950	
176.gcc	1100	82.6	1332	82.6	1332	
181.mcf	1800	156	1153	156	1153	
186.crafty	1000	94.7	1056	94.7	1056	
197.parser	1800	213	843	213	843	
252.eon	1300	84.4	1540	80.5	1616	
253.perlbnk	1800	166	1087	154	1171	
254.gap	1100	108	1016	108	1016	
255.vortex	1900	118	1616	117	1628	
256.bzip2	1500	136	1104	136	1104	
300.twolf	3000	255	1176	249	1204	

### 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: 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.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:

```
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
```