



# CINT2000 Result

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**Hewlett-Packard Company**  
HP Integrity Server rx2600 (1300 MHz, Itanium 2)

SPECint\_rate2000 = 12.4  
SPECint\_rate\_base2000 = 12.3

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	1	166	9.79	1	166	9.79
175.vpr	1	155	10.5	1	149	10.9
176.gcc	1	85.7	14.9	1	85.7	14.9
181.mcf	1	171	12.2	1	171	12.2
186.crafty	1	95.7	12.1	1	95.7	12.1
197.parser	1	222	9.39	1	222	9.39
252.eon	1	98.1	15.4	1	94.5	15.9
253.perlbnk	1	175	11.9	1	168	12.4
254.gap	1	116	11.0	1	116	11.0
255.vortex	1	119	18.6	1	116	19.0
256.bzip2	1	151	11.5	1	151	11.5
300.twolf	1	270	12.9	1	265	13.2

Hardware	Software
CPU: Intel Itanium 2 CPU MHz: 1300 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: 3.0MB (on chip) per CPU Other Cache: N/A Memory: 12GB (12 x 1024MB DIMMs) Disk Subsystem: 1x36GB 15k RPM SCSI disk Other Hardware: N/A	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

```