



# CINT2000 Result

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

SPECint2000 = **1073**  
SPECint\_base2000 = **1059**

SPEC license #: 3 Tested by: HP Richardson Test date: Oct-2003 Hardware Avail: Sep-2003 Software Avail: Sep-2003

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	166	844	166	844	
175.vpr	1400	155	905	149	940	
176.gcc	1100	85.7	1283	85.7	1283	
181.mcf	1800	171	1052	171	1052	
186.crafty	1000	95.7	1045	95.7	1045	
197.parser	1800	222	810	222	810	
252.eon	1300	98.1	1325	94.5	1375	
253.perlbmk	1800	175	1026	168	1069	
254.gap	1100	116	946	116	946	
255.vortex	1900	119	1601	116	1639	
256.bzip2	1500	151	993	151	993	
300.twolf	3000	270	1111	265	1134	

### Hardware

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

### 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.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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## 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

```