



# CINT2000 Result

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Hewlett-Packard Company  
HP Integrity rx1620-2 (1.6GHz/3MB Itanium 2)

SPECint\_rate2000 = 16.8  
SPECint\_rate\_base2000 = 16.8

SPEC license #: 3 Tested by: HP Richardson Test date: Oct-2004 Hardware Avail: Jan-2005 Software Avail: Dec-2004

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	1	129	12.5	1	129	12.5
175.vpr	1	118	13.8	1	118	13.8
176.gcc	1	61.8	20.6	1	61.8	20.6
181.mcf	1	122	17.1	1	122	17.1
186.crafty	1	76.0	15.3	1	76.0	15.3
197.parser	1	166	12.6	1	166	12.6
252.eon	1	65.6	23.0	1	65.6	23.0
253.perlbnk	1	125	16.7	1	125	16.7
254.gap	1	86.6	14.7	1	86.6	14.7
255.vortex	1	85.3	25.9	1	85.3	25.9
256.bzip2	1	108	16.1	1	108	16.1
300.twolf	1	185	18.8	1	185	18.8

### Hardware

CPU: Intel Itanium 2 (1.6 GHz/3MB, 533 MHz FSB)  
CPU MHz: 1600  
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 core  
Secondary Cache: 256KB (I+D) on chip, per core  
L3 Cache: 3.0MB (I+D) on chip, per core  
Other Cache: N/A  
Memory: 16GB (8x2GB DIMMs)  
Disk Subsystem: 1x36GB 15K SCSI  
Other Hardware: N/A

### Software

Operating System: HPUX11i-TCOE B.11.23.0409  
Compiler: HP C/ANSI C Compiler C.06.00  
HP aC++ Compiler C.06.00  
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

```
all : +Oprofile=collect:all/+Oprofile=use
C : +Ofaster -exec +Otype_safety=ansi
C++ : +Ofaster +Otype_safety=ansi
```

### Peak Flags

same as base (basepeak=true set globally)

### Kernel Tunables:

```
dbc_max_pct=20
dbc_min_pct=20
maxdsiz=3221225472
```



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## Notes/Tuning Information (Continued)

```
maxssiz=401604608
maxdsiz_64bit=4396972761584
maxssiz_64bit=1073741824
vps_pagesize=4096
vps_ceiling=16384
```

### Notes:

The system under test had the HP-UX 11i v2 (version 11.23.0409, September, 2004) Technical Computing Operating Environment and AR1204 compilers installed, along with the following patches:

```
PHSS_31849 linker + fdp cumulative patch
PHSS_31850 assembler patch
PHSS_31851 Integrity Unwind Library
PHSS_31852 aC++ Runtime (IA: A.05.60, PA A.03.60)
PHSS_31853 Math Library Cumulative Patch
PHSS_31854 milli cumulative patch
```

EFI command "cpuconfig" used prior to booting to deconfigure other processors if necessary