



# CINT2000 Result

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Hewlett-Packard Company  
HP Integrity rx4640-8 (1.6GHz/9MB Itanium 2)

SPECint2000 = 1590  
SPECint\_base2000 = 1590

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	130	1073	130	1073	
175.vpr	1400	107	1311	107	1311	
176.gcc	1100	59.7	1843	59.7	1843	
181.mcf	1800	54.6	3297	54.6	3297	
186.crafty	1000	76.0	1315	76.0	1315	
197.parser	1800	157	1146	157	1146	
252.eon	1300	65.6	1983	65.6	1983	
253.perlbmk	1800	123	1460	123	1460	
254.gap	1100	90.1	1221	90.1	1221	
255.vortex	1900	80.1	2373	80.1	2373	
256.bzip2	1500	101	1480	101	1480	
300.twolf	3000	185	1625	185	1625	

### Hardware

CPU: Intel Itanium 2  
CPU MHz: 1600  
FPU: Integrated  
CPU(s) enabled: 1 core, 1 chip, 1 core/chip  
CPU(s) orderable: 4  
Parallel: no  
Primary Cache: 16KBI + 16KBD on chip, per core  
Secondary Cache: 256KB (I+D) on chip, per core  
L3 Cache: 9.0MB (I+D) on chip, per core  
Other Cache: N/A  
Memory: 32GB (16x2GB DIMMs)  
Disk Subsystem: 1x36GB 15K SCSI  
Other Hardware: N/A

### Software

Operating System: HP-UX11i-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.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

```
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