



# CINT2000 Result

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Hewlett-Packard Company  
HP Integrity rx2620-2 (1.6GHz/3MB Itanium 2)

SPECint2000 = 1408  
SPECint\_base2000 = 1408

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	131	1073	131	1073	
175.vpr	1400	123	1140	123	1140	
176.gcc	1100	63.3	1738	63.3	1738	
181.mcf	1800	142	1264	142	1264	
186.crafty	1000	76.0	1315	76.0	1315	
197.parser	1800	171	1055	171	1055	
252.eon	1300	65.9	1972	65.9	1972	
253.perlbmk	1800	126	1426	126	1426	
254.gap	1100	90.9	1211	90.9	1211	
255.vortex	1900	88.1	2156	88.1	2156	
256.bzip2	1500	110	1363	110	1363	
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: 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: 24GB (12x2GB DIMMs)  
Disk Subsystem: 1x146GB 10K 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.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