



# CINT2000 Result

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**Hewlett-Packard Company**  
HP Integrity Server rx2600 (1500 MHz, Itanium 2)

SPECint\_rate2000 = 30.5  
SPECint\_rate\_base2000 = 30.5

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	2	144	22.5	2	144	22.5
175.vpr	2	126	25.8	2	126	25.8
176.gcc	2	71.1	35.9	2	71.1	35.9
181.mcf	2	79.1	52.8	2	79.1	52.8
186.crafty	2	81.7	28.4	2	81.7	28.4
197.parser	2	183	22.9	2	183	22.9
252.eon	2	84.3	35.8	2	84.3	35.8
253.perlbnk	2	149	28.1	2	149	28.1
254.gap	2	106	24.1	2	106	24.1
255.vortex	2	97.6	45.2	2	97.6	45.2
256.bzip2	2	123	28.2	2	123	28.2
300.twolf	2	234	29.7	2	234	29.7

### Hardware

CPU: Intel Itanium 2  
CPU MHz: 1500  
FPU: Integrated  
CPU(s) enabled: 2 cores, 2 chips, 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: 6.0MB (on chip) per CPU  
Other Cache: N/A  
Memory: 12GB (12 \* 1GB DIMMs)  
Disk Subsystem: 1x36GB 10k RPM SCSI disk  
Other Hardware: N/A

### Software

Operating System: HP-UX11i-TCOE B.11.23  
Compiler: HP C/ANSI C Compiler B.11.23  
HP aC++ Compiler B.11.23  
File System: vxfs  
System State: Multi-user

## Notes/Tuning Information

### Portability Flags

```
176.gcc : -DHOST_WORDS_BIG_ENDIAN
181.mcf : -DWANT_STDC_PROTO
186.crafty : -DHP
252.eon : -I. -DFMAX_IS_DOUBLE -DNDEBUG
          -DSPEC_CPU2000_LP64 (because of 64-bit compile)
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 +Odatalayout
C++ : +Ofaster +inline_level 2 -minshared +DD64
```

### Peak Flags

same as baseline (basepeak=true set globally)

### Kernel Tunables:



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## Notes/Tuning Information (Continued)

```
maxdsiz          0x7b03a000
maxdsiz_64bit    0x0400000000
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