



# CINT2000 Result

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**Hewlett-Packard Company**  
HP Integrity Server rx5670 (1500 MHz, Itanium 2)

SPECint\_rate2000 = 30.3  
SPECint\_rate\_base2000 = 30.3

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	22.6	2	144	22.6
175.vpr	2	127	25.7	2	127	25.7
176.gcc	2	73.5	34.7	2	73.5	34.7
181.mcf	2	81.3	51.4	2	81.3	51.4
186.crafty	2	81.7	28.4	2	81.7	28.4
197.parser	2	183	22.8	2	183	22.8
252.eon	2	84.4	35.7	2	84.4	35.7
253.perlbmk	2	150	27.9	2	150	27.9
254.gap	2	107	23.9	2	107	23.9
255.vortex	2	98.2	44.9	2	98.2	44.9
256.bzip2	2	123	28.3	2	123	28.3
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: 1-4  
 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: 24GB (48 x 512MB DIMMs on 2 memory carriers)  
 Disk Subsystem: 1x36GB 15k 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.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 +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