



# CINT2000 Result

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Hewlett-Packard Company  
hp server rx5670 (1000 MHz, Itanium 2)

SPECint\_rate2000 = --  
SPECint\_rate\_base2000 = 18.6

SPEC license #: 3 Tested by: HP Richardson Test date: Jul-2002 Hardware Avail: Sep-2002 Software Avail: Oct-2002

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	2	240	13.5			
175.vpr	2	201	16.2			
176.gcc	2	110	23.2			
181.mcf	2	225	18.6			
186.crafty	2	128	18.1			
197.parser	2	273	15.3			
252.eon	2	130	23.3			
253.perlbnk	2	221	18.9			
254.gap	2	165	15.5			
255.vortex	2	161	27.4			
256.bzip2	2	198	17.6			
300.twolf	2	341	20.4			

### Hardware

CPU: Intel Itanium 2  
CPU MHz: 1000  
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: 3.0MB (on chip) per CPU  
Other Cache: N/A  
Memory: 12GB  
Disk Subsystem: 1x9GB SCSI disk (root + swap)  
1x9GB SCSI disk (swap)  
Other Hardware: N/A

### Software

Operating System: HPUX11i-TCOE B.11.22  
Compiler: HP C/ANSI C Compiler B.11.22  
HP aC++ Compiler B.11.22

PHSS\_27286: C product  
PHSS\_27284: C++ product  
PHSS\_27285: C++ library  
PHSS\_27287: U2comp  
PHSS\_27288: Linker  
PHSS\_27291: PBO  
PHSS\_27293: milli.a  
Caliper v2.1 [www.hp.com/go/caliper](http://www.hp.com/go/caliper)

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  
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/+Oprofile=use  
C : +Ofaster -exec -Wl,-aarchive\_shared  
C++ : +Ofaster +inline\_level 2 -minshared



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## Notes/Tuning Information (Continued)

### Kernel Tunables:

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 other processors