



# CINT2000 Result

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Hewlett-Packard Company  
hp server rx2600 (900 MHz, Itanium 2)

SPECint\_rate2000 = 7.82

SPECint\_rate\_base2000 = 7.82

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	1	266	6.11	1	266	6.11
175.vpr	1	244	6.66	1	244	6.66
176.gcc	1	124	10.3	1	124	10.3
181.mcf	1	402	5.20	1	402	5.20
186.crafty	1	143	8.12	1	143	8.12
197.parser	1	321	6.50	1	321	6.50
252.eon	1	144	10.5	1	144	10.5
253.perlbnk	1	251	8.33	1	251	8.33
254.gap	1	179	7.14	1	179	7.14
255.vortex	1	186	11.8	1	186	11.8
256.bzip2	1	248	7.00	1	248	7.00
300.twolf	1	396	8.79	1	396	8.79

### Hardware

CPU: Intel Itanium 2  
CPU MHz: 900  
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 CPU  
Secondary Cache: 256KB (on chip) per CPU  
L3 Cache: 1.5MB (on chip) per CPU  
Other Cache: N/A  
Memory: 6GB (12 x 512MB dimms)  
Disk Subsystem: 1x36GB SCSI disk  
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

Peak flags same as baseline (basepeak=true set globally)



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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