



CINT2000 Result

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Hewlett-Packard Company
hp server rx5670 (900 MHz, Itanium 2)

SPECint_rate2000 = 30.4
SPECint_rate_base2000 = 30.4

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	4	268	24.2	4	268	24.2
175.vpr	4	252	25.8	4	252	25.8
176.gcc	4	127	40.3	4	127	40.3
181.mcf	4	474	17.6	4	474	17.6
186.crafty	4	143	32.5	4	143	32.5
197.parser	4	325	25.7	4	325	25.7
252.eon	4	144	42.0	4	144	42.0
253.perlbnk	4	251	33.2	4	251	33.2
254.gap	4	189	27.0	4	189	27.0
255.vortex	4	189	46.7	4	189	46.7
256.bzip2	4	255	27.3	4	255	27.3
300.twolf	4	396	35.1	4	396	35.1

Hardware

CPU: Intel Itanium 2
CPU MHz: 900
FPU: Integrated
CPU(s) enabled: 4 cores, 4 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: 1.5MB (on chip) per CPU
Other Cache: N/A
Memory: 12GB (48 x 256MB dimms on 2 memory carriers)
Disk Subsystem: 1x73GB 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

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