



CINT2000 Result

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

SPECint2000 = 1312
SPECint_base2000 = 1312

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
164.gzip	1400	143	976	143	976
175.vpr	1400	126	1108	126	1108
176.gcc	1100	73.2	1503	73.2	1503
181.mcf	1800	80.4	2239	80.4	2239
186.crafty	1000	81.3	1229	81.3	1229
197.parser	1800	184	980	184	980
252.eon	1300	84.1	1546	84.1	1546
253.perlbmk	1800	151	1193	151	1193
254.gap	1100	103	1066	103	1066
255.vortex	1900	98.3	1932	98.3	1932
256.bzip2	1500	123	1218	123	1218
300.twolf	3000	234	1280	234	1280

Hardware

CPU: Intel Itanium 2
CPU MHz: 1500
FPU: Integrated
CPU(s) enabled: 1 core, 1 chip, 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: HPUX11i-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