CINT2000 Result

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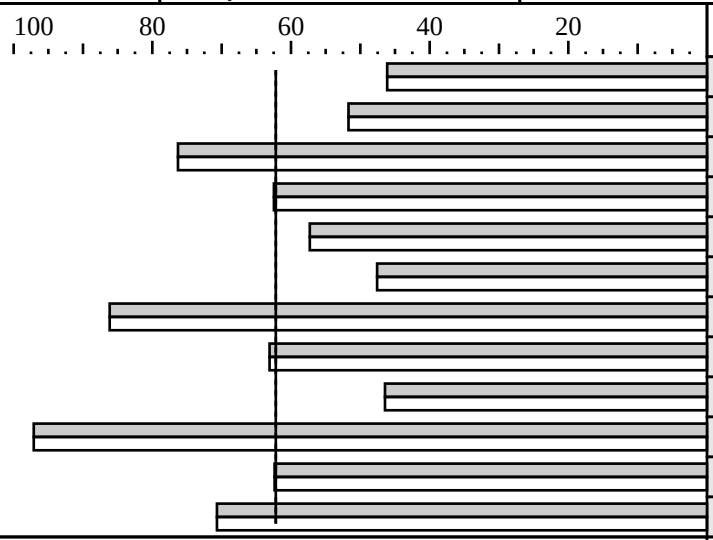
Hewlett-Packard Company

HP Integrity rx4640-8 (1.5GHz/4MB Itanium 2)

SPECint_rate2000 = 62.2

SPECint_rate_base2000 = 62.2

SPEC license #: 3 | Tested by: HP Richardson | Test date: Nov-2004 | Hardware Avail: Dec-2004 | Software Avail: Dec-2004



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	4	141	46.1	4	141	46.1
175.vpr	4	126	51.7	4	126	51.7
176.gcc	4	66.9	76.3	4	66.9	76.3
181.mcf	4	134	62.5	4	134	62.5
186.crafty	4	81.0	57.3	4	81.0	57.3
197.parser	4	176	47.6	4	176	47.6
252.eon	4	70.0	86.1	4	70.0	86.1
253.perlbmk	4	132	63.1	4	132	63.1
254.gap	4	110	46.4	4	110	46.4
255.vortex	4	90.8	97.1	4	90.8	97.1
256.bzip2	4	112	62.4	4	112	62.4
300.twolf	4	197	70.7	4	197	70.7

Hardware

CPU:	Intel Itanium 2
CPU MHz:	1500
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 core
Secondary Cache:	256KB (I+D) on chip, per core
L3 Cache:	4.0MB (I+D) on chip, per core
Other Cache:	N/A
Memory:	32GB (16x2GB DIMMs)
Disk Subsystem:	1x36GB 15K SCSI
Other Hardware:	N/A

Software

Operating System:	HPUX11i-TCOE B.11.23.0409
Compiler:	HP C/ANSI C Compiler C.06.00 HP aC++ Compiler C.06.00
File System:	vxfs
System State:	Multi-user

Notes/Tuning Information

```
Portability Flags
176.gcc     : -DHOST_WORDS_BIG_ENDIAN
186.crafty  : -DHP
252.eon     : -DFMAX_IS_DOUBLE
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 +Otype_safety=ansi
  C++       : +Ofaster +Otype_safety=ansi

Peak Flags
  same as base (basepeak=true set globally)

Kernel Tunables:
  dbc_max_pct=20
  dbc_min_pct=20
  maxdsiz=3221225472
```

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Notes/Tuning Information (Continued)

```
  maxssiz=401604608
  maxdsiz_64bit=4396972761584
  maxssiz_64bit=1073741824
  vps_pagesize=4096
  vps_ceiling=16384

Notes:

The system under test had the HP-UX 11i v2 (version 11.23.0409,
  September, 2004) Technical Computing Operating Environment and
  AR1204 compilers installed, along with the following patches:

  PHSS_31849 linker + fdp cumulative patch
  PHSS_31850 assembler patch
  PHSS_31851 Integrity Unwind Library
  PHSS_31852 aC++ Runtime (IA: A.05.60, PA A.03.60)
  PHSS_31853 Math Library Cumulative Patch
  PHSS_31854 milli cumulative patch

EFI command "cpuconfig" used prior to booting to
  deconfigure other processors if necessary
```