CINT2000 Result

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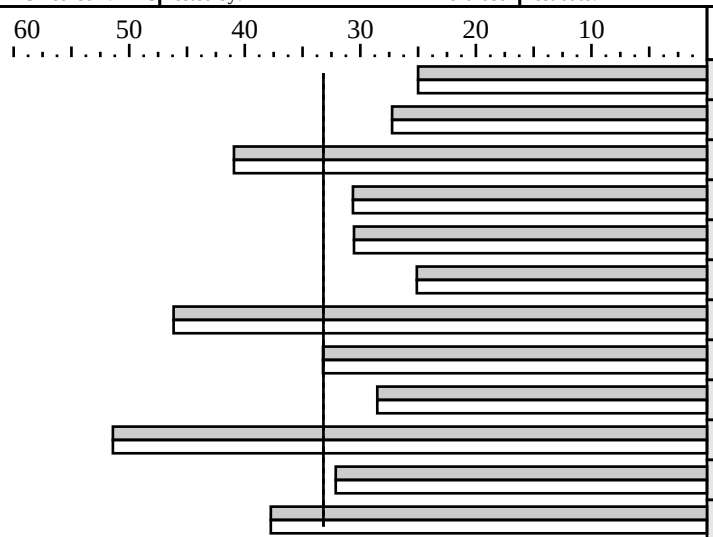
Hewlett-Packard Company

HP Integrity rx1620-2 (1.6GHz/3MB Itanium 2)

SPECint_rate2000 = 33.2

SPECint_rate_base2000 = 33.2

SPEC license #: 3 | Tested by: HP Richardson | Test date: Oct-2004 | Hardware Avail: Jan-2005 | Software Avail: Dec-2004



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	2	130	25.0	2	130	25.0
175.vpr	2	119	27.3	2	119	27.3
176.gcc	2	62.3	40.9	2	62.3	40.9
181.mcf	2	136	30.6	2	136	30.6
186.crafty	2	75.9	30.5	2	75.9	30.5
197.parser	2	166	25.1	2	166	25.1
252.eon	2	65.3	46.2	2	65.3	46.2
253.perlbmk	2	126	33.2	2	126	33.2
254.gap	2	89.4	28.5	2	89.4	28.5
255.vortex	2	85.7	51.4	2	85.7	51.4
256.bzip2	2	108	32.1	2	108	32.1
300.twolf	2	184	37.7	2	184	37.7

Hardware

CPU:	Intel Itanium 2 (1.6 GHz/3MB, 533 MHz FSB)
CPU MHz:	1600
FPU:	Integrated
CPU(s) enabled:	2 cores, 2 chips, 1 core/chip
CPU(s) orderable:	1-2
Parallel:	no
Primary Cache:	16KBI + 16KBD on chip, per core
Secondary Cache:	256KB (I+D) on chip, per core
L3 Cache:	3.0MB (I+D) on chip, per core
Other Cache:	N/A
Memory:	16GB (8x2GB 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
```