



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.perlbnk	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.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: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