



CINT2000 Result

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Hewlett-Packard Company
HP Integrity rx1620-2 (1.3GHz/3MB Itanium 2)

SPECint_rate2000 = 27.0
SPECint_rate_base2000 = 27.0

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

					Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio				
45	40	35	30	25	20	15	10	5	164.zip	2	160	20.3	2	160	20.3
									175.vpr	2	146	22.2	2	146	22.2
									176.gcc	2	76.7	33.3	2	76.7	33.3
									181.mcf	2	165	25.3	2	165	25.3
									186.crafty	2	93.9	24.7	2	93.9	24.7
									197.parser	2	205	20.4	2	205	20.4
									252.eon	2	80.3	37.6	2	80.3	37.6
									253.perlbnk	2	153	27.3	2	153	27.3
									254.gap	2	110	23.2	2	110	23.2
									255.vortex	2	105	41.9	2	105	41.9
									256.bzip2	2	133	26.2	2	133	26.2
									300.twolf	2	227	30.7	2	227	30.7

Hardware

CPU: Intel Itanium 2 (1.3GHz/3MB, 400MHz FSB)
CPU MHz: 1300
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 CPU
Secondary Cache: 256KB (on chip) per CPU
L3 Cache: 3.0MB (on chip) per CPU
Other Cache: N/A
Memory: 16GB (8x2GB DIMMs)
Disk Subsystem: 1x36GB 15K rpm 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