



CINT2000 Result

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Hewlett-Packard Company
HP Integrity rx2620-2 (1.6GHz/6MB Itanium 2)

SPECint2000 = 1535
SPECint_base2000 = 1535

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	130	1073	130	1073	
175.vpr	1400	111	1265	111	1265	
176.gcc	1100	60.4	1821	60.4	1821	
181.mcf	1800	72.8	2472	72.8	2472	
186.crafty	1000	76.0	1316	76.0	1316	
197.parser	1800	159	1131	159	1131	
252.eon	1300	66.2	1965	66.2	1965	
253.perlbmk	1800	126	1434	126	1434	
254.gap	1100	91.0	1209	91.0	1209	
255.vortex	1900	82.3	2309	82.3	2309	
256.bzip2	1500	102	1477	102	1477	
300.twolf	3000	185	1625	185	1625	

Hardware

CPU: Intel Itanium 2 (1.6GHz/6MB, 400MHz FSB)
CPU MHz: 1600
FPU: Integrated
CPU(s) enabled: 1 core, 1 chip, 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: 6.0MB (I+D) on chip, per core
Other Cache: N/A
Memory: 24GB (12x2GB DIMMs)
Disk Subsystem: 1x146GB 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