



CINT2000 Result

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Hewlett-Packard Company
HP Integrity rx7620 (1500 MHz Itanium 2)

SPECint_rate2000 = 58.3
SPECint_rate_base2000 = 57.3

SPEC license #: 3 Tested by: HP Richardson Test date: Oct-2003 Hardware Avail: Nov-2003 Software Avail: Oct-2003

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	4	148	44.0	4	148	44.0
175.vpr	4	132	49.2	4	128	50.7
176.gcc	4	75.8	67.3	4	75.8	67.3
181.mcf	4	106	79.1	4	106	79.1
186.crafty	4	82.2	56.5	4	80.8	57.4
197.parser	4	188	44.4	4	188	44.4
252.eon	4	85.2	70.8	4	81.6	73.9
253.perlbnk	4	153	54.5	4	144	58.0
254.gap	4	128	39.8	4	128	39.8
255.vortex	4	103	85.6	4	101	87.6
256.bzip2	4	125	55.6	4	125	55.6
300.twolf	4	234	59.6	4	228	61.1

Hardware

CPU: Intel Itanium 2
 CPU MHz: 1500
 FPU: Integrated
 CPU(s) enabled: 4 cores, 4 chips, 1 core/chip
 CPU(s) orderable: 2,4,6,8
 Parallel: no
 Primary Cache: 16KBI + 16KBD (on chip) per CPU
 Secondary Cache: 256KB (on chip) per CPU
 L3 Cache: 6.0MB (on chip) per CPU
 Other Cache: N/A
 Memory: 8GB (16 * 512MB DIMMs)
 Disk Subsystem: 1x36GB 10K rpm SCSI
 Other Hardware: N/A

Software

Operating System: HPUX11i-TCOE B.11.23
 Compiler: HP C/ANSI C Compiler A.05.52
 HP aC++ Compiler A.05.52
 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 +Odatalayout
C++          : +Ofaster +inline_level 2 -minshared
```

Peak Flags

```
164.gzip     : basepeak=true
175.vpr      : +Oprofile=collect:all/+Oprofile=use +Ofaster -exec +Odatalayout
              +Onoptrs_to_globals +Onorecovery
176.gcc      : basepeak=true
181.mcf      : basepeak=true
186.crafty   : +Oprofile=collect:all/+Oprofile=use +Ofaster -exec +Odatalayout
```



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Notes/Tuning Information (Continued)

```

+Otype_safety=ansi
197.parser : basepeak=true
252.eon : +Oprofile=collect:all/+Oprofile=use +Ofaster +inline_level 2
        -minshared +Otype_safety=ansi
253.perlbnk : +Oprofile=collect:all/+Oprofile=use +Ofaster -exec +Odatalayout
            +Onoptrs_to_globals
            LIBS = /opt/langtools/lib/hpux32/fastmem.o
254.gap : basepeak=true
255.vortex : +Oprofile=collect:all/+Oprofile=use +Ofaster -exec +Odatalayout
            +Onoptrs_to_globals +Onorecovery
256.bzip2 : basepeak=true
300.twolf : +Oprofile=collect:all/+Oprofile=use +Ofaster -exec +Odatalayout
            +Onoptrs_to_globals
            LIBS = /opt/langtools/lib/hpux32/effmem.o

```

Kernel Tunables:

```

dbc_max_pct=20
dbc_min_pct=20
maxdsiz=3221225472
maxssiz=401604608
maxdsiz_64bit=4396972761584
maxssiz_64bit=1073741824
vps_pagesize=4096
vps_ceiling=16384

```

The system under test had the HP-UX 11i v2 (version 11.23) Technical Computing Operating Environment and compilers installed, with the following patches applied:

```

PHSS_29655 aC++ compiler (A.05.52)
PHSS_29656 HP C Compiler (A.05.52)
PHSS_29657 u2comp/be/plugin library Patch
PHSS_29663 Fortran Product Patch, v2.7 to v2.7.2

```

Notes:

System configured as a single partition with 1 cell and 4 processors per cell

Filesystem used for spec runs mounted "tmplog"