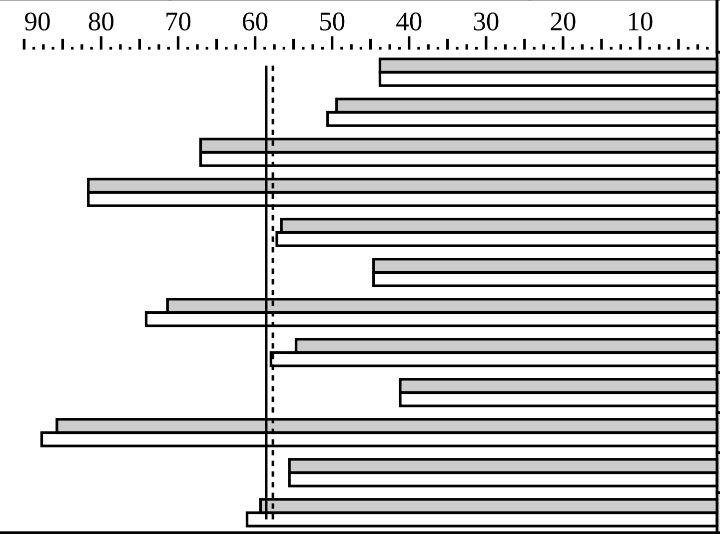
CINT2000 Result

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

SPECint_rate2000 = 58.6
SPECint_rate_base2000 = 57.7

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	43.8	4	148	43.8
175.vpr	4	131	49.4	4	128	50.6
176.gcc	4	76.1	67.1	4	76.1	67.1
181.mcf	4	102	81.7	4	102	81.7
186.crafty	4	82.0	56.6	4	81.2	57.2
197.parser	4	187	44.6	4	187	44.6
252.eon	4	84.5	71.4	4	81.3	74.2
253.perlbmk	4	153	54.7	4	144	57.9
254.gap	4	124	41.2	4	124	41.2
255.vortex	4	103	85.7	4	101	87.7
256.bzip2	4	125	55.5	4	125	55.5
300.twolf	4	235	59.3	4	228	61.0

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:	16GB (32 * 512MB DIMMs)
Disk Subsystem:	2x18GB 10K rpm SCSI (striped)
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.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 +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.perlbmk : +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 was configured with 1/2 of memory interleaved and
    1/2 of memory local to each cell

  System configured as a single partition with 2 cells and
    2 processors per cell
     (unused processors disabled by firmware comand cpuconfig)

  Processes were assigned to localities using the
    HP-UX mpsched utility

  Filesystem used for spec runs mounted "tmplog"
```