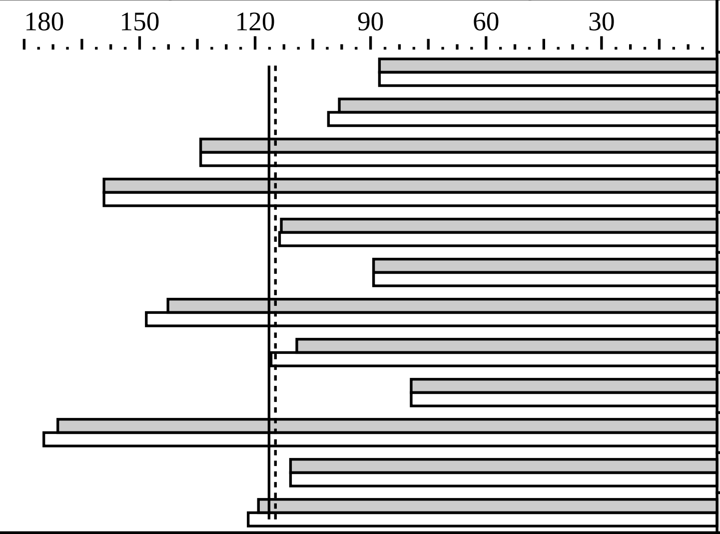
CINT2000 Result

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

SPECint_rate2000 = 116
SPECint_rate_base2000 = 115

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	8	148	87.7	8	148	87.7
175.vpr	8	132	98.1	8	129	101
176.gcc	8	76.1	134	8	76.1	134
181.mcf	8	105	159	8	105	159
186.crafty	8	82.0	113	8	81.7	114
197.parser	8	187	89.2	8	187	89.2
252.eon	8	84.6	143	8	81.4	148
253.perlbmk	8	153	109	8	144	116
254.gap	8	128	79.4	8	128	79.4
255.vortex	8	103	171	8	101	175
256.bzip2	8	126	111	8	126	111
300.twolf	8	234	119	8	229	122

Hardware

CPU:	Intel Itanium 2
CPU MHz:	1500
FPU:	Integrated
CPU(s) enabled:	8 cores, 8 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
```

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
    4 processors per cell

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

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