CINT2000 Result

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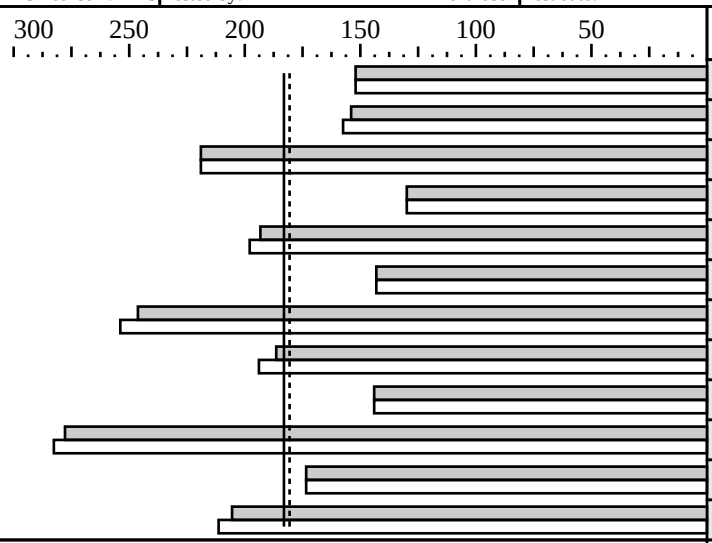
Hewlett-Packard Company

HP Integrity rx8620 (1300 MHz Itanium 2)

SPECint_rate2000 = 183

SPECint_rate_base2000 = 181

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



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	16	171	152	16	171	152
175.vpr	16	169	154	16	165	157
176.gcc	16	93.2	219	16	93.2	219
181.mcf	16	257	130	16	257	130
186.crafty	16	96.0	193	16	93.8	198
197.parser	16	233	143	16	233	143
252.eon	16	98.0	246	16	95.0	254
253.perlbmk	16	179	186	16	172	194
254.gap	16	142	144	16	142	144
255.vortex	16	127	278	16	125	283
256.bzip2	16	161	173	16	161	173
300.twolf	16	271	205	16	263	211

Hardware

CPU:	Intel Itanium 2
CPU MHz:	1300
FPU:	Integrated
CPU(s) enabled:	16 cores, 16 chips, 1 core/chip
CPU(s) orderable:	2,4,6,8,10,12,14,16
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:	32GB (64 * 512MB DIMMs)
Disk Subsystem:	10x36GB 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 4 cells and
    4 processors per cell

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

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