CINT2000 Result

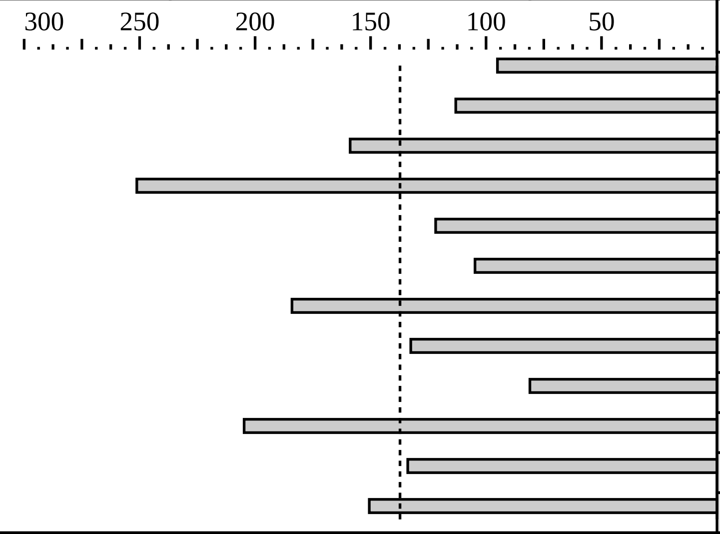
HITACHI

HITACHI BladeSymphony (1.6GHz/9MB Itanium 2)

SPECint_rate2000 = --

SPECint_rate_base2000 = 137

SPEC license #: 872	Tested by: HITACHI	Test date: Jul-2005	Hardware Avail: Aug-2005	Software Avail: Aug-2005



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	8	137	95.1			
175.vpr	8	115	113			
176.gcc	8	64.3	159			
181.mcf	8	66.5	251			
186.crafty	8	76.2	122			
197.parser	8	159	105			
252.eon	8	65.6	184			
253.perlbmk	8	126	133			
254.gap	8	126	81.0			
255.vortex	8	86.1	205			
256.bzip2	8	104	134			
300.twolf	8	185	151			

Hardware

CPU:	Intel Itanium 2
CPU MHz:	1600
FPU:	Integrated
CPU(s) enabled:	8 cores, 8 chips, 1 core/chip
CPU(s) orderable:	1,2,4,8
Parallel:	No
Primary Cache:	16KBI + 16KBD on chip, per core
Secondary Cache:	256KB(I+D) on chip, per core
L3 Cache:	9.0MB(I+D) on chip, per core
Other Cache:	N/A
Memory:	16GB (1GB DIMM x 16)
Disk Subsystem:	Fujitsu Ultra320 MAS3735NC (73GBx1), 15000rpm
Other Hardware:	None

Software

Operating System:	HPUX11i-MCOE 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 run level 3

Notes/Tuning Information

```
Base tuning flags
 C         : +Ofaster -exec +Otype_safety=ansi +FDO
 C++       : +Ofaster +Otype_safety=ansi +FDO
+FDO: PASS1=+Oprofile=collect:all PASS2=+Oprofile=use

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

Kernel Parameters
 dbc_max_pct = 20
 dbc_min_pct = 20
 maxdsiz = 0x7b03a000
 maxdsiz_64bit = 0x4000000000
 maxssiz = 0x10000000
 maxssiz_64bit = 0x40000000
```

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Notes/Tuning Information (Continued)

```
 swapmem_on = 0
 vps_ceiling = 16384
 vps_pagesize = 4096

Following patches were installed.
 PHCO_32622 LVM commands patch
 PHCO_32784 VxVM 3.5~IA.014 Command Patch 01
 PHKL_32095 11.23 LVM Cumulative Patch; OLdR enablement
 PHKL_32233 Hang during dump after a main memory MCA
 PHKL_32247 VxVM 3.5~IA.014 Kernel Cumulative Patch 01
 PHKL_32359 Prevents loss of dump on some Itanium MCA's
 PHKL_32425 VM pagecache leaks on I/O errors
 PHKL_32518 FSS
 PHKL_33046 Claim devices on Hitachi BladeSymphony
 PHNE_31118 IETHER 1000Base-SX/T B.11.23.[01-0505] 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
 PHSS_32502 Aries cumulative patch
 PHSS_32765 linker + fdp cumulative patch
```