



CINT2000 Result

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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.zip	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.perlbnk	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.perlbnk : -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 = 0x400000000
```



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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
```