



CFP2000 Result

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Hewlett-Packard Company

HP Integrity Superdome (1.6GHz/24MB Dual Core Itanium 2)

SPECfp_rate2000 = 2837

SPECfp_rate_base2000 = 2837

SPEC license #: 3 Tested by: Hewlett-Packard Company Test date: Jun-2006 Hardware Avail: Sep-2006 Software Avail: Sep-2006

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	128	82.1	2894	128	82.1	2894
171.swim	128	275	1676	128	275	1676
172.mgrid	128	169	1579	128	169	1579
173.applu	128	136	2295	128	136	2295
177.mesa	128	81.1	2564	128	81.1	2564
178.galgel	128	36.5	11804	128	36.5	11804
179.art	128	26.2	14711	128	26.2	14711
183.quake	128	78.5	2460	128	78.5	2460
187.facerec	128	74.0	3810	128	74.0	3810
188.amp	128	127	2580	128	127	2580
189.lucas	128	211	1406	128	211	1406
191.fma3d	128	211	1479	128	211	1479
200.sixtrack	128	77.2	2115	128	77.2	2115
301.apsi	128	147	2626	128	147	2626

Hardware

CPU: Dual Core Intel(R) Itanium(R) 2 (1.6GHz/24MB, 533MHz FSB)
CPU MHz: 1600
FPU: Integrated
CPU(s) enabled: 128 cores, 64 chips, 2 cores/chip (Hyper-Threading Technology disabled)
CPU(s) orderable: 2-128
Parallel: no
Primary Cache: 16KBI + 16KBD on chip, per core
Secondary Cache: 1024KBI + 256KBD on chip, per core
L3 Cache: 12.0MB (I+D) on chip, per core
Other Cache: N/A
Memory: 512GB (512x1GB DIMMs)
Disk Subsystem: 8x36GB 15K SCSI (striped)
Other Hardware: N/A

Software

Operating System: HPUX11i-TCOE B.11.23.0606
Compiler: HP C/ANSI C Compiler C.11.23.12
HP Fortran90 Compiler B.11.23.32
File System: vxfs
System State: Multi-user

Notes/Tuning Information

Portability Flags

178.galgel: +source=fixed

Base Flags

+PBO = +Oprofile=collect:all/+Oprofile=use

f90 : +PBO +Ofaster -minshared
C : +PBO +Ofaster +Otype_safety=ansi

Peak flags:

same as base (basepeak=true set globally)

Kernel Tunables:

dbc_max_pct=10



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Notes/Tuning Information (Continued)

```
dbc_min_pct=10
maxdsiz=3221225472
maxssiz=401604608
```

Notes:

The system had the June 2006 HP-UX 11i v2 Technical Computing Operating Environment (TCOE) installed, along with the AR0606 compilers, and the following patches:

```
PHSS_34858 linker + fdp cumulative patch
PHSS_34853 Math Library Cumulative Patch
PHSS_34854 Integrity Unwind Library
PHSS_34855 HP C Compiler (A.06.12)
PHSS_34856 aC++ Compiler (A.06.12)
PHSS_34857 u2comp/be/plugin library patch
PHSS_34395 FORTRAN I/O Library [libIO77]
PHSS_34397 FORTRAN Intrinsics [libF90 B.11.23.16]
PHSS_34399 HP FORTRAN90
PHSS_34441 aC++ Runtime (IA: A.06.10)
PHKL_34020 Perfmon enhancements and Itanium-2 9000 HWE
```

System was configured as a single partition with 16 cells and 4 processors (8 cores) per cell. Memory was configured as 50% local and 50% interleaved.

HP-UX mpsched utility was used to assign processes to cells.

filesystem used for spec runs mounted tmplog