CFP2000 Result

Copyright ©1999-2005, Standard Performance Evaluation Corporation

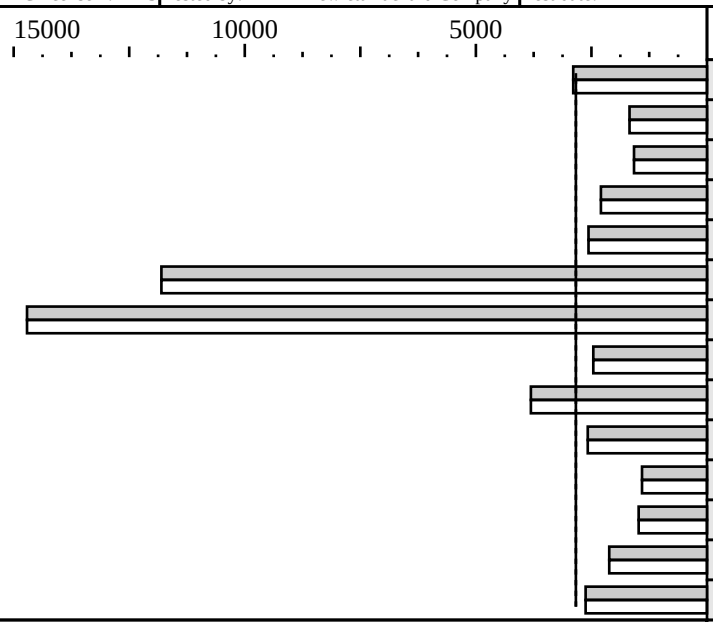
Hewlett-Packard Company

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.equake	128	78.5	2460	128	78.5	2460
187.facerec	128	74.0	3810	128	74.0	3810
188.ammp	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
```

Copyright ©1999-2005, Standard Performance Evaluation Corporation

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
```