CFP2000 Result

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Hewlett-Packard Company

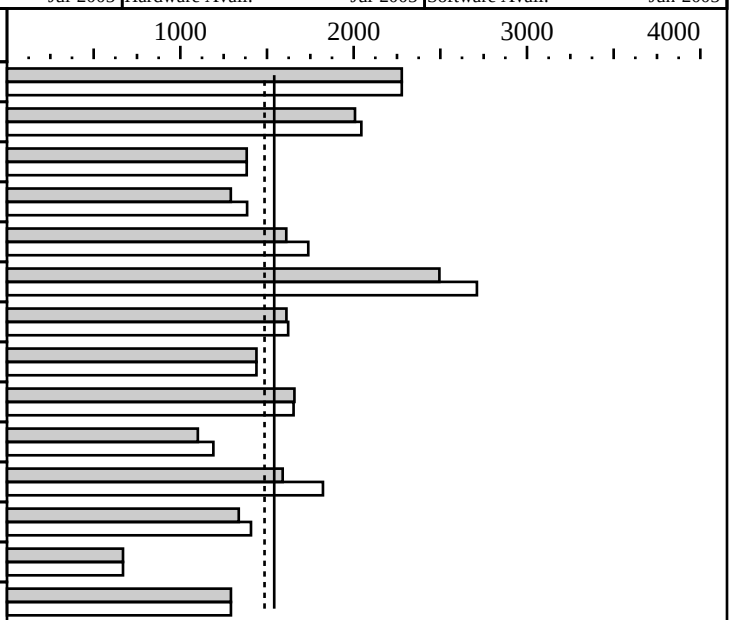
ProLiant DL385 (AMD Opteron (TM) 275)

SPECfp2000 = 1542

SPECfp_base2000 = 1486

SPEC license #: 3 | Tested by: Hewlett-Packard Company | Test date: Jul-2005 | Hardware Avail: Jul-2005 | Software Avail: Jun-2005

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
168.wupwise	1600	70.3	2278	70.3	2278
171.swim	3100	154	2008	152	2044
172.mgrid	1800	130	1383	130	1383
173.applu	2100	163	1291	152	1385
177.mesa	1400	86.9	1611	80.5	1738
178.galgel	2900	116	2495	107	2711
179.art	2600	161	1612	160	1622
183.equake	1300	90.3	1439	90.3	1439
187.facerec	1900	115	1658	115	1653
188.ammp	2200	200	1101	185	1191
189.lucas	2000	126	1590	110	1823
191.fma3d	2100	157	1337	149	1408
200.sixtrack	1100	164	669	164	669
301.apsi	2600	201	1292	201	1292



Hardware

CPU:	AMD Opteron (TM) 275
CPU MHz:	2200
FPU:	Integrated
CPU(s) enabled:	1 core, 1 chip, 2 cores/chip
CPU(s) orderable:	1,2
Parallel:	No
Primary Cache:	64KBI + 64KBD on chip
Secondary Cache:	1024KB(I+D) on chip per core
L3 Cache:	N/A
Other Cache:	N/A
Memory:	4x2048MB PC3200 CL3.0
Disk Subsystem:	1x36.4GB 15K Ultra320 SCSI
Other Hardware:	

Software

Operating System:	Windows Server 2003 Enterprise SP1
Compiler:	Intel C++ Compiler 8.0 Build 20040318Z Intel Fortran Compiler for 32-bit applications 8.1 build 20050517Z PGI Fortran compiler 6.0-4 for Windows XP (32-bit) Microsoft Visual Studio .NET 7.0.9466 (for libraries) MicroQuill Smartheap Library 7.0 AMD Core Math Library V2.6.0
File System:	NTFS
System State:	Default

Notes/Tuning Information

```
+FDO: PASS1=-Qprof_gen  PASS2=-Qprof_use
+ACML is linking with AMD Core Math Library V2.6.0
ONESTEP is set for all peak runs.
ifort is the Intel Fortran compiler, icl is the Intel C++ compiler and
pgf90 is the PGI Fortran compiler.
The Intel C++ 8.0 and the Intel Fortran 8.1 compilers are setup in the following order:
   "c:program filesintel ortrancompiler80ia32 inifortvars.bat"
   "c:program filesintelcppcompiler80ia32 iniclvars.bat"
To make sure that the correct libraries are selected, the following link option is
added for the peak runs where Intel Fortran 8.1 compiler is used:
    LDOPT = -Fe$@ -link -LIBPATH:"c:program filesintel ortrancompiler80ia32lib"
(denoted by +LIBPATH:INTEL8.1 in the optimization flags listed below)
Base tuning for C programs:       icl   -fast -arch:SSE2 -QaxW +FDO
Base tuning for FORTRAN programs: pgf90 -fastsse -Mipa=fast,inline
Portability flags:
  178.galgel: -Mfixed
Peak tuning:
```

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Notes/Tuning Information (Continued)

```
  168.wupwise:       pgf90 basepeak=yes
  171.swim:          ifort -Qipo  -O3  -QaxN -QxW +FDO -Qunroll0     +LIBPATH:INTEL8.1
  172.mgrid:         pgf90 basepeak=yes
  173.applu:         ifort -Qipo  -O3  -QaxN -QxW +FDO -auto         +LIBPATH:INTEL8.1
  177.mesa:          icl   -Qipo -arch:SSE2       +FDO -Qunroll1 -Qansi_alias
                         -Qoption,f,-ip_ninl_max_stats=1500,-ip_ninl_max_total_stats=4500
  178.galgel:        pgf90 -fastsse -Mipa=fast,safe RM_SOURCES=lapak.f90 -Munix +ACML
  179.art:           icl   -Qipo             -Zp4 +FDO
  183.equake:        icl   basepeak=yes
  187.facerec:       ifort -Qipo             -QxW +FDO -Qunroll3     +LIBPATH:INTEL8.1
                         -Qoption,f,-ip_ninl_max_stats=2500,-ip_ninl_max_total_stats=7000
  188.ammp:          icl   -Oa   -arch:SSE2  -Zp4      -Qansi_alias
  189.lucas:         ifort -Qipo             -QxW      -Qunroll1     +LIBPATH:INTEL8.1
  191.fma3d:         ifort -Qipo       -QaxN -QxW +FDO -Qansi-alias- +LIBPATH:INTEL8.1
  200.sixtrack:      pgf90 basepeak=yes
  301.apsi:          pgf90 basepeak=yes
Other Configuration Notes
  /NUMPROC=1 flag was added to boot.ini to invoke uniprocessor environment.
BIOS Configuration Notes
  Node Interleaving is Disabled
```