



CFP2000 Result

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Hewlett-Packard Company
hp server rx2600 (1000 MHz, Itanium 2)

SPECfp_rate2000 = 15.1
SPECfp_rate_base2000 = 13.6

SPEC license #: 3 Tested by: HP Richardson Test date: Jul-2002 Hardware Avail: Sep-2002 Software Avail: Oct-2002

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	1	262	7.09	1	152	12.2
171.swim	1	127	28.4	1	119	30.2
172.mgrid	1	110	18.9	1	110	18.9
173.applu	1	191	12.8	1	191	12.8
177.mesa	1	195	8.33	1	189	8.58
178.galgel	1	111	30.2	1	83.6	40.3
179.art	1	93.8	32.2	1	81.7	36.9
183.quake	1	108	13.9	1	105	14.4
187.facerec	1	244	9.03	1	237	9.30
188.amp	1	230	11.1	1	230	11.1
189.lucas	1	168	13.8	1	145	16.0
191.fma3d	1	341	7.14	1	330	7.37
200.sixtrack	1	117	10.9	1	117	10.9
301.apsi	1	235	12.8	1	205	14.7

Hardware

CPU: Intel Itanium 2
CPU MHz: 1000
FPU: Integrated
CPU(s) enabled: 1 core, 1 chip, 1 core/chip
CPU(s) orderable: 1-2
Parallel: no
Primary Cache: 16KBI + 16KBD (on chip) per CPU
Secondary Cache: 256KB (on chip) per CPU
L3 Cache: 3.0MB (on chip) per CPU
Other Cache: N/A
Memory: 6GB
Disk Subsystem: 1x36GB SCSI disk (root + swap)
Other Hardware: N/A

Software

Operating System: HPUX11i-TCOE B.11.22
Compiler: HP C/ANSI C Compiler B.11.22
HP Fortran 90 Compiler B.11.22
HP MLIB B.11.22

PHSS_27281: f90 product
PHSS_27286: C product
PHSS_27287: U2comp
PHSS_27288: Linker
PHSS_27291: PBO
PHSS_27293: milli.a
Caliper v2.1 www.hp.com/go/caliper

File System: VxFS
System State: Multi-user

Notes/Tuning Information

C compiler invoked as:
/opt/ansic/bin/cc -AOe

Portability Flags:
178.galgel: +source=fixed

Base Flags:
All : +Oprofile=collect/+Oprofile=use
f90 : +Ofast +O3 -minshared
C : +Ofaster +Onorecovery -exec
Note : By default, f90 links in MLIB libraries if installed

Peak Flags (all use the following except where noted below):



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Notes/Tuning Information (Continued)

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All      : LIBS =
f77/f90  : +Ofast +Onoptrs_to_globals -minshared +O3
C        : +Oprofile=collect/+Oprofile=use +Ofaster +Onorecovery
          +Onoptrs_to_globals +Otype_safety=strong -exec -Wl,-aarchive_shared

168.wupwise : +Ofast +O3 +cat +Onoptrs_to_globals -minshared
              ONESTEP = 1
172.mgrid   : basepeak=true
173.applu   : basepeak=true
177.mesa    : LIBS = -Bprotected
178.galgel  : +Ofast +Onoptrs_to_globals -minshared +O3
              RM_SOURCES = lapak.f90
              LIBS = -llapack
179.art     : LIBS = -Bprotected_data /opt/langtools/lib/hpux32/effmem.o
183.equake  : LIBS = -Bprotected /opt/langtools/lib/hpux32/effmem.o
188.ammpp   : basepeak=true
189.lucas   : +Ofast +Onoptrs_to_globals -minshared +O3 +Oinlinebudget=100
200.sixtrack : basepeak=true

```

Kernel Tunables:

```

maxdsiz      0x7b03a000
maxdsiz_64bit 0x4000000000
maxssiz      0x10000000
maxssiz_64bit 0x40000000
vps_ceiling  16384
vps_pagesize 4096
swapmem_on   0
dbc_max_pct  20
dbc_min_pct  20

```

Note:

EFI shell utility 'cpuconfig' used to deconfigure other processors