OMPM2001 Result

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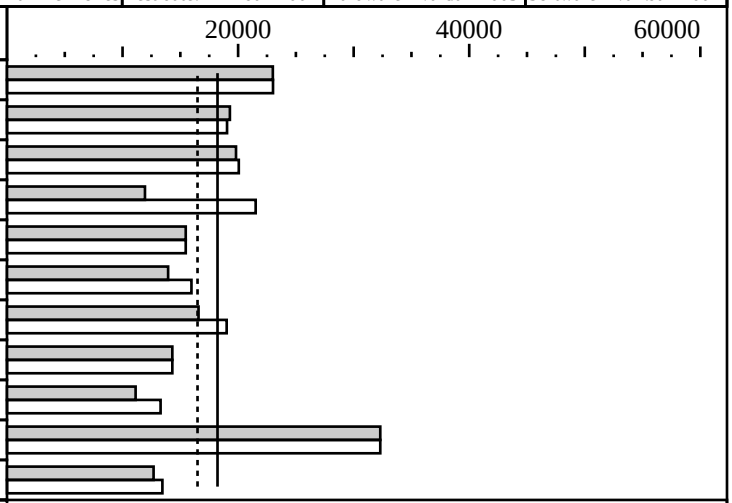
BULL
NovaScale 5160 (1500MHz, Itanium 2)

SPECompMpeak2001 = 18218

SPECompMbase2001 = 16488

SPEC license #HPG0015	Tested by: Bull Echirolles	Test site: Bull Echirolles	Test date: Jan-2004	Hardware Avail:Jun-2003	Software Avail:Jan-2004

Benchmark	Reference Time	Base Runtime	Base Ratio	Peak Runtime	Peak Ratio
310.wupwise_m	6000	261	23005	261	23020
312.swim_m	6000	311	19288	315	19042
314.mgrid_m	7300	368	19819	364	20059
316.applu_m	4000	335	11939	186	21520
318.galgel_m	5100	330	15468	330	15468
320.equake_m	2600	186	13944	163	15962
324.apsi_m	3400	205	16575	179	19009
326.gafort_m	8700	608	14308	608	14308
328.fma3d_m	4600	413	11130	346	13291
330.art_m	6400	198	32302	198	32302
332.ammp_m	7000	552	12685	521	13448



Hardware

CPU:	Intel Itanium 2
CPU MHz:	1500
FPU:	Integrated
CPU(s) enabled:	16
CPU(s) orderable:	4 to 16
Primary Cache:	16KBI + 16KBD (on chip) per CPU
Secondary Cache:	256KB (on chip) per CPU
L3 Cache:	6.0MB (on chip) per CPU
Other Cache:	N/A
Memory:	64 GB
Disk Subsystem:	1 SJ0812 Disk drawer with 2 15krpm 36GB SCSI disks
Other Hardware:	None

Software

OpenMP Threads:	16
Parallel:	OpenMP
Operating System:	Bull Advanced Server 3 (Linux 64 bits)
Compiler:	Intel(R) Fortran Compiler for Linux 7.1 (Build 20030701) Intel(R) C++ Compiler for Linux 7.1 (Build 20030701)
File System:	ext2
System State:	Single-user

Notes/Tuning Information

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Baseline optimization flags:
  C programs:       -openmp -O3 -ipo -ansi_alias
  Fortran programs: -openmp -O3 -ipo -stack_temps

processes were bound to cpu using bindopenmp

Portability Flags:
  318.galgel_m: -FI -132


Baseline user environment:
  OMP_NUM_THREADS=16
  limit stacksize 2000000
  KMP_STACKSIZE 250M
  KMP_LIBRARY TURNAROUND

Peak optimization flags:
   310.wupwise_m: -ipo -O3 -openmp
   312.swim_m: -O3 -openmp
   314.mgrid_m: -O3 -openmp
   316.applu_m: -ipo -openmp
   318.galgel_m: basepeak=true
   320.equake_m: -openmp -O3 -ipo -ansi -ansi_alias
```

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Notes/Tuning Information (Continued)

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    324.apsi_m: -openmp -O3 -stack_temps
    326.gafort: basepeak=true
    328.fma3d_m: -openmp -O3 -static -stack_temps
    330.art_m: basepeak=true
    332.ammp_m: -openmp -ansi_alias

Alternate sources:

ISO C and C++ compatible sources
Available as SPEC OMPM2001 source: ompm2001-isoc-20020619.tar.gz
Used for base: 320.equake_m, 330.art_m, 332.ammp_m
Used for peak: 330.art_m

Alternate sources for peak:
SPEC OMPL2001 (srcalt=ompl) 64-bit source modified for OMPM2001.
Used for 320.equake_m, 324.apsi_m, 328.fma3d_m.
```