



OMPL2001 Result

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Intel Corporation
Intel Server System SR1560SF

SPECompLpeak2001 = --
SPECompLbase2001 = 81332

SPEC license #HPG0013 | Tested by: Intel Corporation | Test site: -- | Test date: Mar-2009 | Hardware Avail: Sep-2008 | Software Avail: Jun-2009

Benchmark	Reference Time	Base Runtime	Base Ratio	Peak Runtime	Peak Ratio
311.wupwise_l	9200	1520	96864		
313.swim_l	12500	4526	44188		
315.mgrid_l	13500	4198	51448		
317.applu_l	13500	4687	46089		
321.equake_l	13000	3465	60037		
325.apsi_l	10500	1285	130775		
327.gafort_l	11000	1590	110673		
329.fma3d_l	23500	4147	90677		
331.art_l	25000	2054	194734		

Hardware		Software	
CPU:	Intel Xeon E5482	OpenMP Threads:	8
CPU MHz:	3200	Parallel:	OpenMP
FPU:	Integrated	Operating System:	Red Hat EL 5.2, Kernel: 2.6.18-92.1.10.el5-lustre-1.6.5.1
CPU(s) enabled:	8 cores, 2 chips, 4 cores/chip, 1 thread/core	Compiler:	Intel C/C++ Compiler 11.1 for Linux Intel FORTRAN Compiler 11.1 for Linux gcc version 4.1.2 20080704 (Red Hat 4.1.2-44)
CPU(s) orderable:	1,2	File System:	Linux ext3
Primary Cache:	32KB(I)+32KB(D)/core on chip	System State:	Default
Secondary Cache:	12288KB/chip (I+D) on chip		
L3 Cache:	N/A		
Other Cache:	N/A		
Memory:	8x2GB FBDIMM DDR2-800		
Disk Subsystem:	U320 15k RAID		
Other Hardware:			

Notes/Tuning Information

Baseline optimization flags:

```
COPTIMIZE = -O3 -xS -ipo -openmp -ansi_alias -mcmmodel=medium -shared-intel
```

```
FOPTIMIZE = -O3 -xS -ipo -openmp -mcmmodel=medium -shared-intel
```

```
export KMP_AFFINITY=compact,0
```

```
export KMP_LIBRARY=turnaround
```

```
export KMP_STACKSIZE=31M
```

```
export OMP_DYNAMIC=FALSE
```

```
ONESTEP=yes
```

```
ulimit -s 64000
```

Portability Flags:

```
331.art_l: -DINTS_PER_CACHELINE=32 -DDBLS_PER_CACHELINE=16
```

```
all: -gcc-name=/usr/bin/gcc
```

For compiler/openmp flags description please refer:

Intel-ic11.1-intel64-linux-flags-file.html in flags directory.