
Subject: TIME_TEST on an SGI Octane
Posted by Markus Klarhoefer on Wed, 08 Apr 1998 07:00:00 GMT
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Hello,

a long time ago somebody asked for TIME_TEST on an SGI Octane.

Our Octane:

1 175 MHZ IP30 Processor
CPU: MIPS R10000 Processor Chip Revision: 2.7
FPU: MIPS R10010 Floating Point Chip Revision: 0.0
Main memory size: 128 Mbytes
Graphics board: SI

Since yesterday IDL 5.0.3 is running on this machine. We get:

```
IDL> time_test2
|TIME_TEST2 performance for IDL 5.0.3:
|  OS_FAMILY=unix, OS=IRIX, ARCH=mipseb
|  Wed Apr  8 08:38:30 1998
|    1  0.541087 Empty For loop,  2000000 times
|    2  0.367520 Call empty procedure (1 param) 100,000 times
|    3  0.268025 Add 100,000 integer scalars and store
|    4  0.272726 25,000 scalar loops each of 5 ops, 2 =, 1 if)
|    5  0.133102 Mult 512 by 512 byte by constant and store, 10
times
|    6  0.233739 Shift 512 by 512 byte and store, 100 times
|    7  0.344045 Add constant to 512 x 512 byte array and store, 50
times
|    8  0.239189 Add two 512 by 512 byte images and store, 30 times
|    9  0.543486 Mult 512 by 512 floating by constant and store, 30
times
|   10  0.412182 Add constant to 512 x 512 floating and store, 40
times
|   11  0.817886 Add two 512 by 512 floating images and store, 30
times
|   12  0.157778 Generate 225000 random numbers
|   13  0.457977 Invert a 150 by 150 random matrix
|   14  0.0312340 LU Decomposition of a 150 by 150 random matrix
|   15  0.284339 Transpose 256 x 256 byte, FOR loops
|   16  0.299449 Transpose 256 x 256 byte, row and column ops x 10
|   17  0.0781829 Transpose 256 x 256 byte, TRANSPOSE function x 10
|   18  0.582171 Log of 100,000 numbers, FOR loop
|   19  0.0499680 Log of 100,000 numbers, vector ops
```

```
20 0.858163 131072 point forward plus inverse FFT
21 0.869924 Smooth 512 by 512 byte array, 5x5 boxcar, 10 times
22 0.153137 Smooth 512 by 512 floating array, 5x5 boxcar, 2
times
23 0.0855770 Write and read 512 by 512 byte array x 20
8.08089=Total Time, 0.25793440=Geometric mean, 23
tests.
```

```
IDL> graphics_times2
|GRAPHICS_TIMES2 performance for IDL 5.0.3:
|  OS_FAMILY=unix, OS=IRIX, ARCH=mipseb
|  Wed Apr  8 08:39:39 1998
|    1 0.345018 Simple plot, 10 times
|    2 0.226182 1000 vectors x 100
|    3 0.456402 Polygon filling
|    4 0.917010 Display 512 x 512 image, 10 times
| 1.94461=Total Time, 0.42511393=Geometric mean, 4
tests.
```

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