
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		
6	0.233739	Shift 512 by 512 byte and store, 100		
7	0.344045	Add constant to 512 x 512 byte array and store, 50		
8	0.239189	Add two 512 by 512 byte images and store, 30		
9	0.543486	Mult 512 by 512 floating by constant and store, 30		
10	0.412182	Add constant to 512 x 512 floating and store, 40		
11	0.817886	Add two 512 by 512 floating images and store, 30		
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		

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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.
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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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