
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		

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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