Subject: Re: Q: IDL benchmarks

Posted by Robert Moss on Mon, 26 Feb 1996 08:00:00 GMT

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I just wanted to mention that before everyone runs out and buys PVWave on an SGI they should look carefully at these numbers: they are for much fewer iterations that the corresponding tests in IDL, so direct comparison to most of the other recent postings without some scaling is not valid.

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Watson R J wrote:

>

- > Running PV-WAVE CL Version 5.00 (sgi IRIX mipseb) on an SG Indy
- > with 100MHz R4400 and 144Mb time_test gives this ...
- > 1 0.156311 Empty For loop, 10,000 times
- > 2 0.467805 Call empty procedure (1 param) 10000 times
- > 3 0.142651 Add 10,000 integer scalars and store
- > 4 0.241405 5000 scalar arithmetic loops
- > 5 0.0721331 Mult 512 by 512 byte by constant and store
- > 6 0.0324579 Shift 512 by 512 byte and store
- > 7 0.0448910 Add a constant to a 512 by 512 byte array and store
- > 8 0.0431681 Add two 512 by 512 byte images and store
- > 9 0.318135 Mult 512 by 512 floating by constant and store
- > 10 0.0612410 Shift 512 by 512 floating and store
- > 11 0.0830290 Add a constant to a 512 by 512 floating array and store
- > 12 0.326699 Add two 512 by 512 floating images and store
- > 13 0.0674850 Invert a 50 by 50 random matrix
- > 14 1.18785 Transpose 256 x 256 byte, FOR loops
- > 15 0.133863 Transpose 256 x 256 byte, row and column ops
- > 16 0.0236490 Transpose 256 x 256 byte, transpose
- > 17 0.0209789 Log of 10000 numbers, vector ops
- > 18 0.321045 Log of 10000 numbers, FOR loop
- > 19 0.00391400 Add two 10000 element floating vectors, vector op
- > 20 0.267292 Add two 10000 element floating vectors, FOR loop
- > 21 0.0432030 8192 point real to complex FFT
- > 22 0.372203 Smooth 512 by 512 byte array, 5x5 boxcar
- > 23 0.256296 Smooth 512 by 512 floating array, 5x5 boxcar
- > 24 0.186448 Write and read 10 512 by 512 byte arrays
- > 4.87416 Total Time
- > 0.10921606 Geometric mean, 24 tests.

> > posted out of interest ... ------"When in a hole... stop digging ..." > Robert J Watson. Electronic Systems Engineering Dept. > University of Essex, Internet: watsr@essex.ac.uk > Wivenhoe Park, Tel: +44 1206 873029 (direct) > Colchester, > CO4 3SQ. Fax: +44 1206 872900 This is not necessarily the opinion of Texaco Inc.