



Transient Data Acquisition
Capture, Calculate, Customize

Greetings ,

Hi-Techniques is pleased to announce that it has been acquired by an investment group headed by Jon Milbrandt.

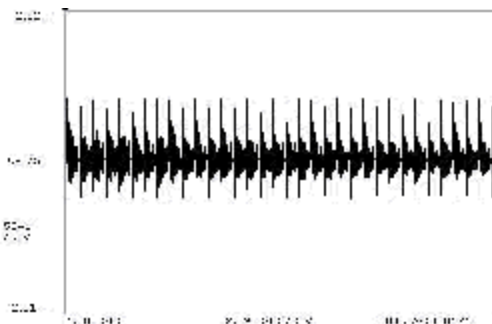
Jon has an extensive background in the data acquisition industry and is committed to moving Hi-Techniques forward. "We are committed to continued growth of our data acquisition business through product enhancement, diversification and market globalization", stated Jon.



Application - Some Transients are Repetitive

What do these have in common: Turbine blade rotation, rock hammers, diesel injectors, engine combustion?

Signal data from all four are short bursts, with baseline data between the bursts.



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Product News - THINK WIRELESS!



You can now access the full acquisition power of the popular Hi-Techniques Win600e data acquisition system in a new, compact frame. Our new meDAQ allows you to design a fully portable and distributed application, with our high speed

transient signal conditioning and digitizing hardware placed close to the transducers. This helps to improve test setup times and reduce noise transmission since signal lines from the sensor to the data acquisition frame can be significantly reduced. A single Ethernet cable connects the meDAQ(s) to a Windows-based PC. Other features include :

- « Small, portable, DC-powered
- « Ideal for fast transient measurements of voltage, current, pressure, strain/bridge and current-fed accelerometers
- « 2 to 16 simultaneously sampled channels from 100 kSps to 50 MSps per frame
- « Remote operation via Ethernet ... link multiple frames to create a distributed DAS with hundreds of channels
- « Dedicated on-board channel memory for transient or streaming applications
- « Sophisticated triggering and auto-start capabilities
- « Includes our easy-to-setup Hi-Techniques software ... intelligently taking you from data capture to report generation!

>> More Info >>

When comparing data from these signals, the baseline is normally not important. The Hi-Techniques Sequence Mode is perfect for capturing these signals. It is sometimes called burst mode, because each burst triggers a high speed acquisition, allowing users to see details on the pulses, then awaits the next pulse, and puts each pulse successively in memory. Because the in-between baseline need not be included in the capture, it saves memory space as well.

Routines are available to separate, compare, and print the individual transients. See the website:

<http://www.hi-techniques.com/support/howto/sequence.htm>.

How To - Build a Histogram

Win600 programmers.... Have you tried creating a peaks histogram from successive sweeps of data? It's a great way to gather some statistics: Here's a short program to get you started. Perhaps you are acquiring data into Trace 1, and nothing in Trace 8. You can use Trace 8 for the histogram. Set it up as a scratch array.

```
10 ; Peak_Histogram.pgm (comments start with a semi-colon)
20 TR8 = SCRATCH 100 ; Setup Trace 8 array
30 TR8 = ON
40 ;Start the loop, counting through 100 times, from 0 to 99
50 FOR R99 = 0 TO 99
60 SSWP ; take a single sweep. If you don't have a trigger, use
   SSWP WITH TRIGGER
70 MNMX TR1 ;A cursor sits on the maximum after this command
80 TRANSFER AY => TR8 ; Cursor Yval to Tr8
90 NEXT
100 END
```

After you have the data in Trace 8, you can even do the Analysis functions of Standard Deviation, Average, and others from the suite of calculations under STATS.

What, Where, and When

Shows: [DATA](#) - Irvine, CA - April 13, 2004
[DATA](#) - Sunnyvale, CA - April 15, 2004
[DATA](#) - Cleveland, OH - May 18, 2004
[DATA](#) - Detroit, MI - May 20, 2004
[Sensors](#) - Detroit - June 7 - 10, 2004

Training: In-house [May 17-21](#)
Updates: [Win600e 5.00.21](#)
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