Summary for the Test Stand Status

	System	Capability	Ubiety	Equipment	Preparedness
Quick Board Test Stand	Windows 95	Board Quality Qiuck Test	ACC	Full Set	Ready, Sent to ACC
Quick Chip Test Stand	Windows 95	Chip Quality Quick Test	Fermilab	Full Set	Ready
Final Test Stand	Linux	Full Test		Main Set	Under construct

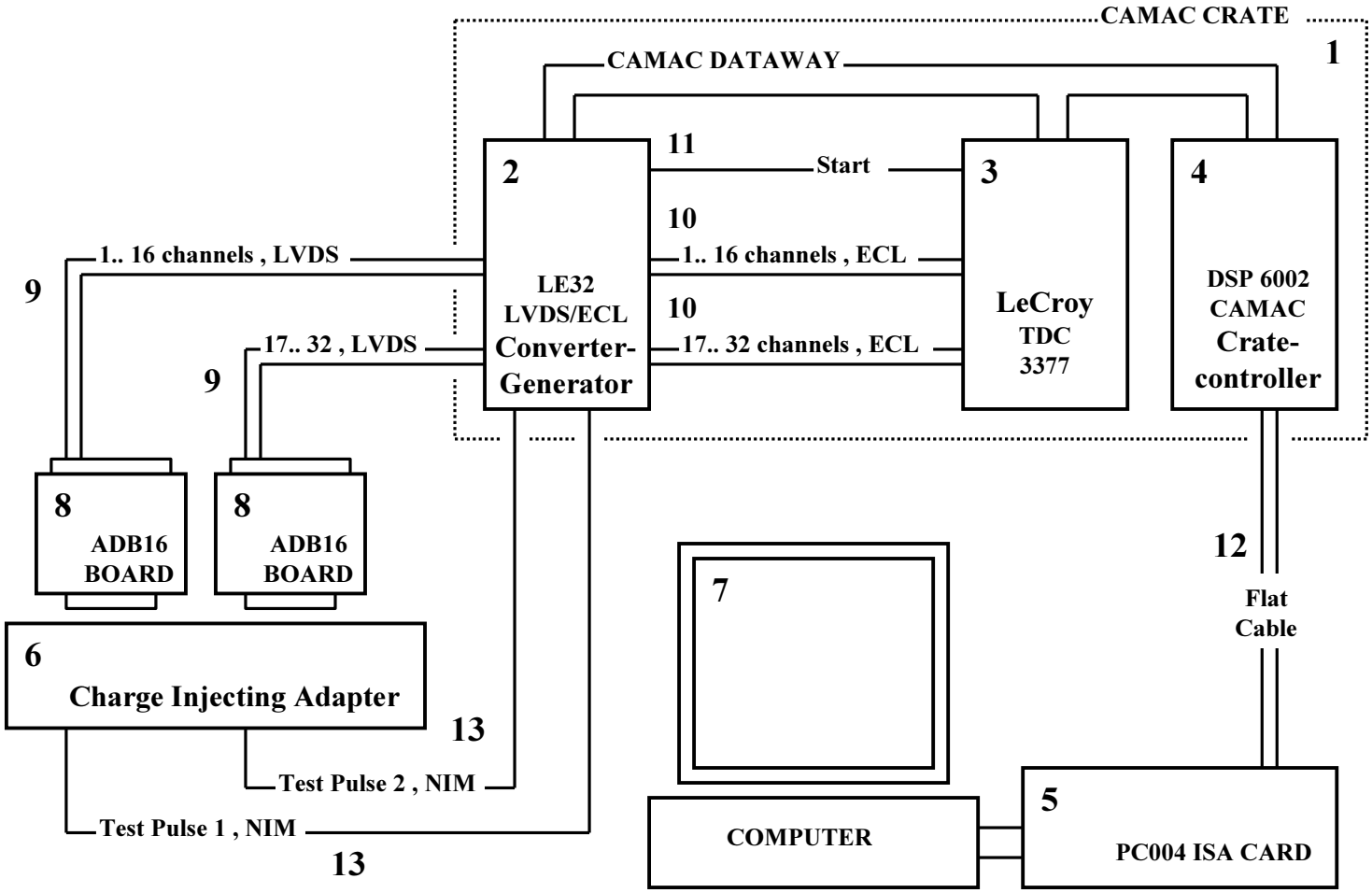
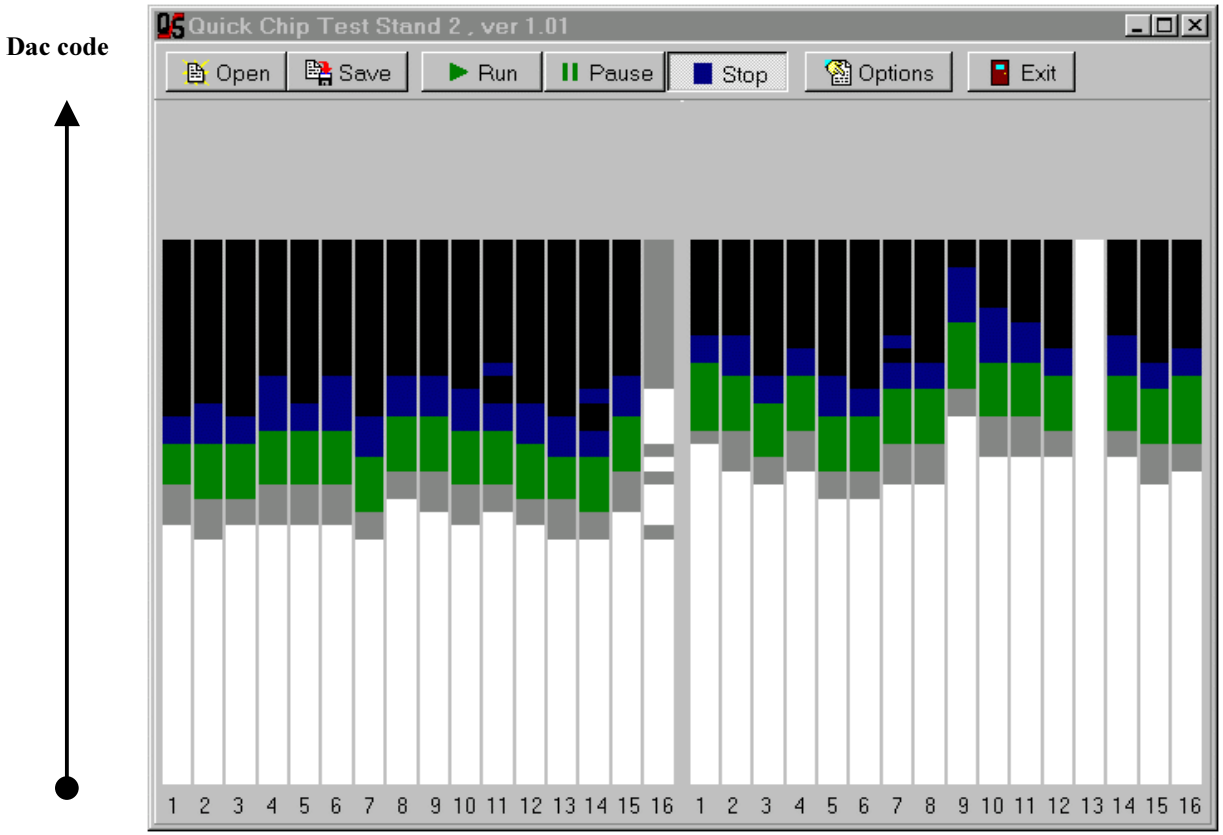
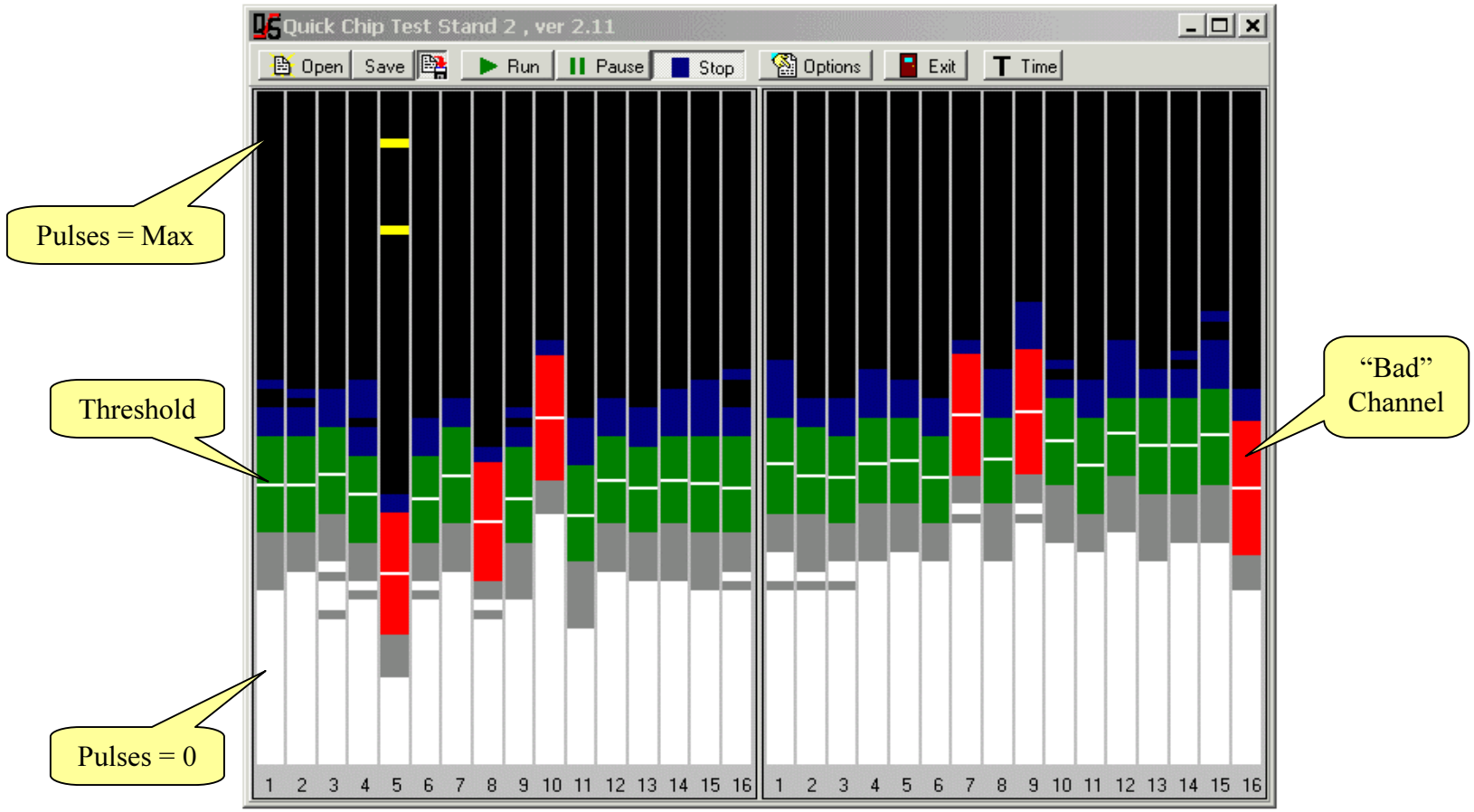


Fig.1 Quick Chip Test Stand , Hardware Scheme.

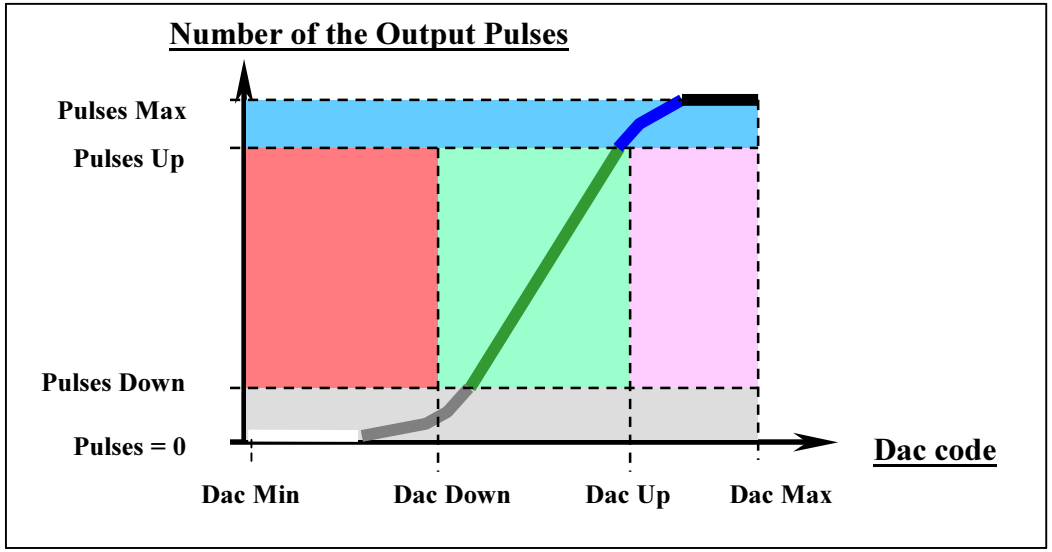
Fig.2 Quick Board Test Stand



Visual Control for Two Chips



Threshold Efficiency (Number of the pulses vs Dac code)



Color of the curve in the Threshold efficiency.

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1. *Pulses* equal 0	**White**
2. *Pulses* not equal 0 and *Pulses* less then *Pulses Down*.	**Gray**
3. *Pulses* equal *Pulses Max*	**Black**
4. *Pulses* not equal *Pulses Max* and *Pulses* less then *Pulses Down*.	**Blue**
5. *Pulses* greater then *Pulses Down* and *Pulses* less then *Pulses Up*	
a) *Dac* less then *Dac Down*	**Red**
b) *Dac* greater then *Dac Up*)	**Purple**
c) *Dac* between *Dac Up* and *Dac Down*	**Green**
6. *Pulses* greater then *Pulses Max*	**Yellow**

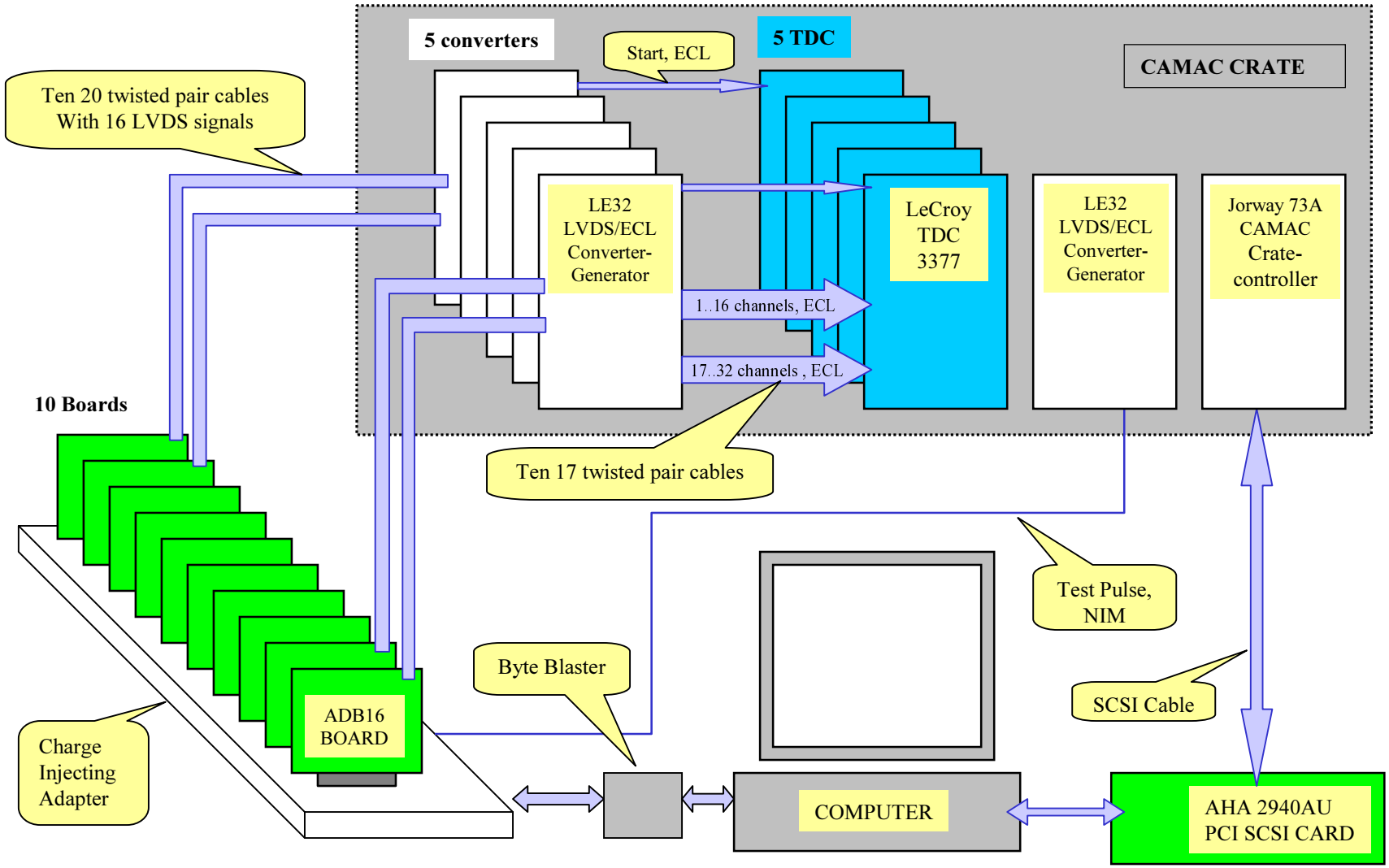
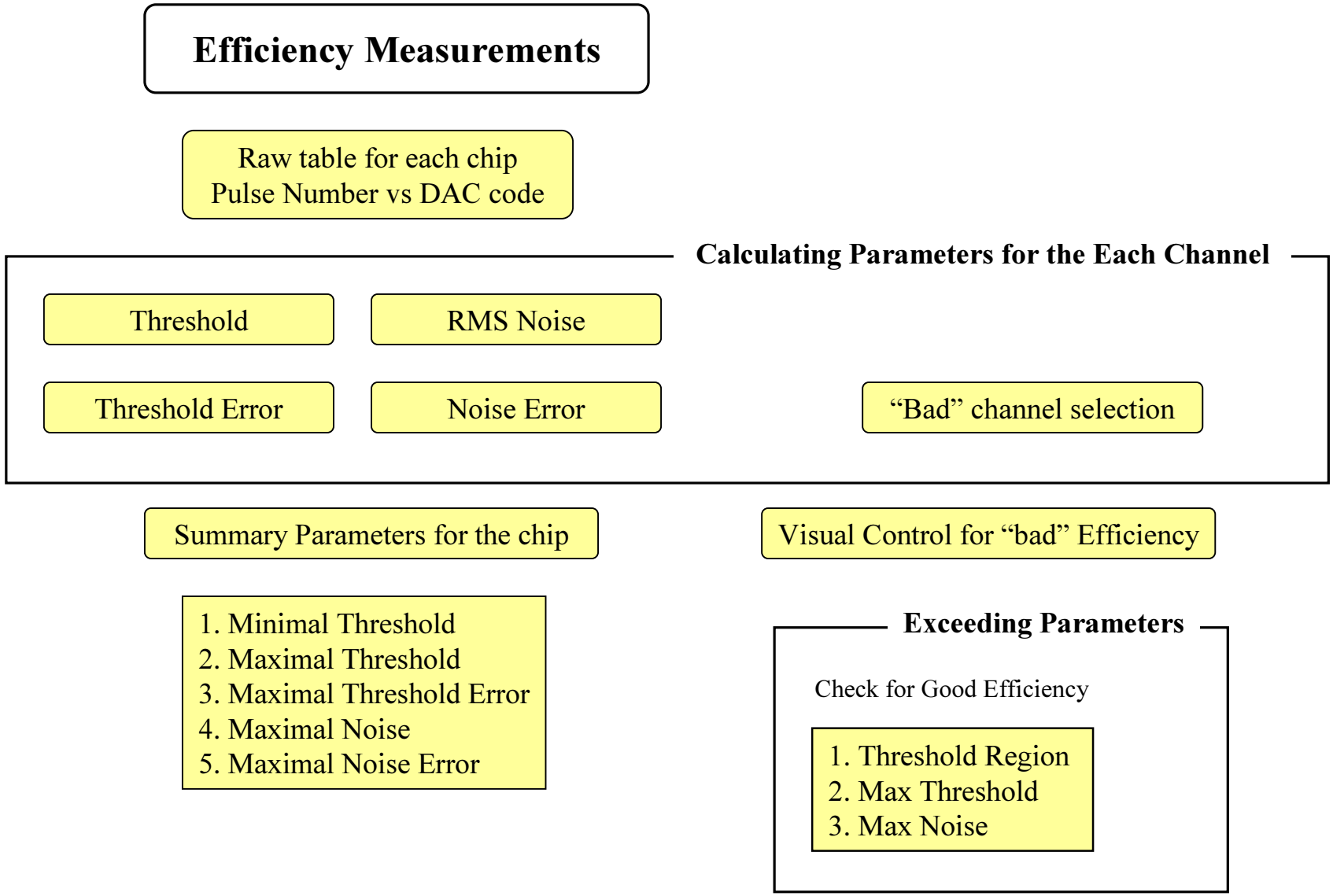
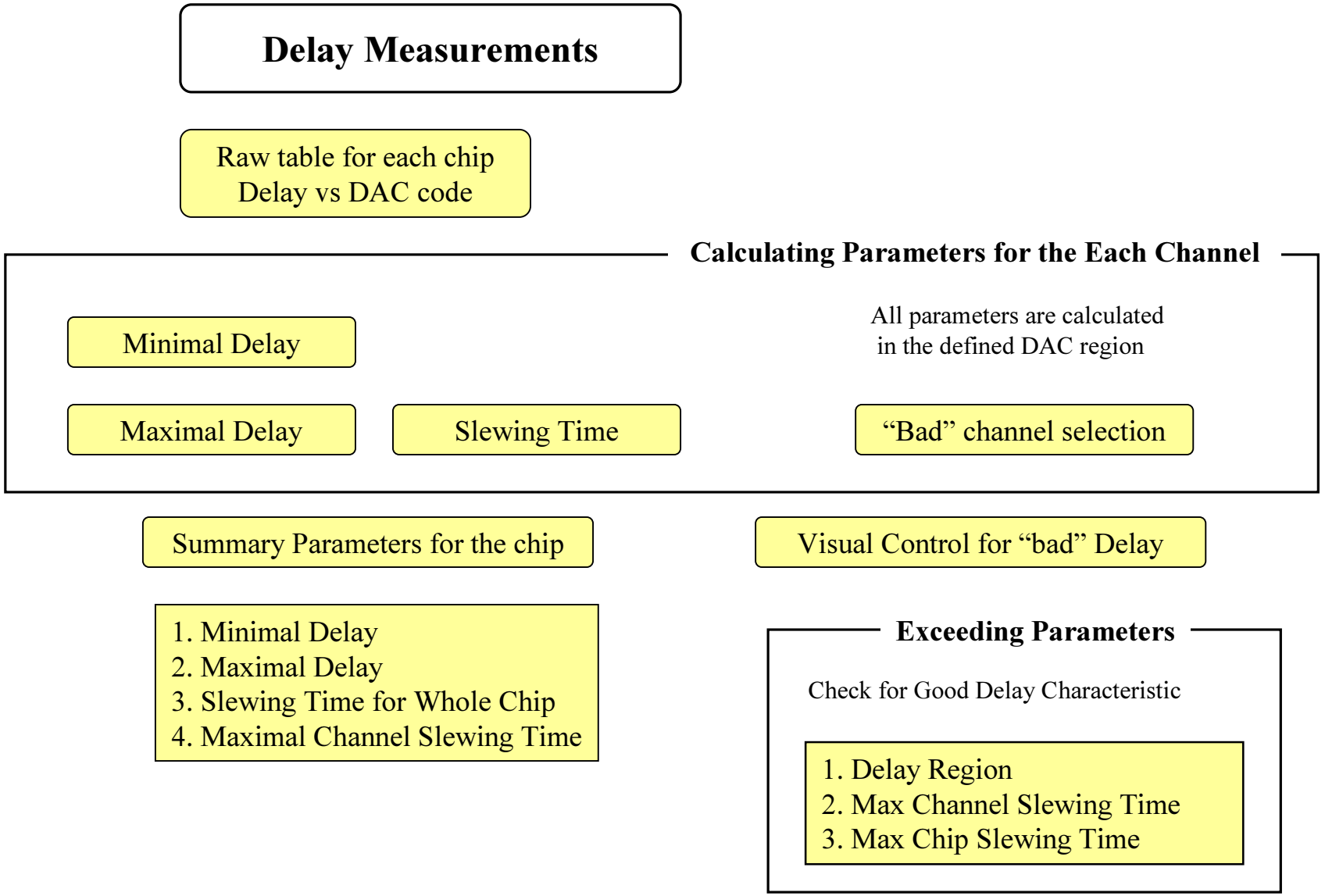


Fig.3 ADB16 Board Test Stand , Hardware Scheme.


Efficiency Measurements
Raw table for each chip
Pulse Number vs DAC code
Calculating Parameters for the Each Channel
Threshold
RMS Noise
Threshold Error
Noise Error
"Bad" channel selection
Summary Parameters for the chip
Visual Control for "bad" Efficiency
1. Minimal Threshold
2. Maximal Threshold
3. Maximal Threshold Error
4. Maximal Noise
5. Maximal Noise Error
Exceeding Parameters
Check for Good Efficiency
1. Threshold Region
2. Max Threshold
3. Max Noise


Delay Measurements
Raw table for each chip
Delay vs DAC code
Calculating Parameters for the Each Channel
Minimal Delay
Maximal Delay
Slewing Time
All parameters are calculated
in the defined DAC region
“Bad” channel selection
Summary Parameters for the chip
Visual Control for “bad” Delay
1. Minimal Delay
2. Maximal Delay
3. Slewing Time for Whole Chip
4. Maximal Channel Slewing Time
Exceeding Parameters
Check for Good Delay Characteristic
1. Delay Region
2. Max Channel Slewing Time
3. Max Chip Slewing Time