

ARCHIVES: Benchmarking Single-Point Performance on National Instruments Real-Time Hardware

This document is the archives for past benchmarking data found either in error or in using new and different targets. You will find the date that this change was made and the reason for removing it from the main white paper.

12/27/06

The Compact FieldPoint numbers below are a result in a bug we detected in our error checking logic and are no longer valid. We have confirmed that this bug no longer exists and does not exist in other benchmarking tests

Compact FieldPoint

Hardware

- NI cFP-2120: Rugged Intelligent Ethernet Controller Interface for Compact FieldPoint with Removable Storage
 - 200 MHz Pentium-class processor
 - 128 MB SDRAM
- (4) NI cFP-AIO-600: 8-Channel Combination Analog Input/Analog Output Module
- (4) NI cFP-CB-1: Integrated Connector Block for Wiring to Compact FieldPoint I/O
- NI cFP-BP-8: 8-Slot Backplane

Software

- LabVIEW Real-Time 8.2
- FieldPoint version 5.0.1
- FieldPoint Drivers 5.2.0
- FieldPoint VI Manager 4.1.0

Notes

- Ethernet driver set to interrupt
- Analog channels use 0 to 20 mA current mode

Results

Test	1 Channel	4 Channels	16 Channels
T1	1195.5 Hz	1023.4 Hz	351.2 Hz
T2a	1152.3 Hz	895.7 Hz	346.7 Hz
T2b	N/A	N/A	N/A
T3	934.8 Hz	798.9 Hz	330.8 Hz
T4	958.7 Hz	768.8 Hz	316.9 Hz

Table 1: Compact FieldPoint Test Results

Compact FieldPoint Test Results

