

Date	2015/08/21	SR#	1-2196689971
Category	■FAQ □SOP	Related OS	N/A
Abstract	IAG_FAQ P2P GCL Processing and Response Time From AI Trigger AO		
Keyword	P2P, GCL, AI Trigger AO, Processing Time		
Related Product	ADAM-6000 & ADAM-6200 Series		

■ Problem Description:

This document explains a common question regarding how much processing or response time will be taken by triggering AI trigger to AO module via P2P or GCL function.

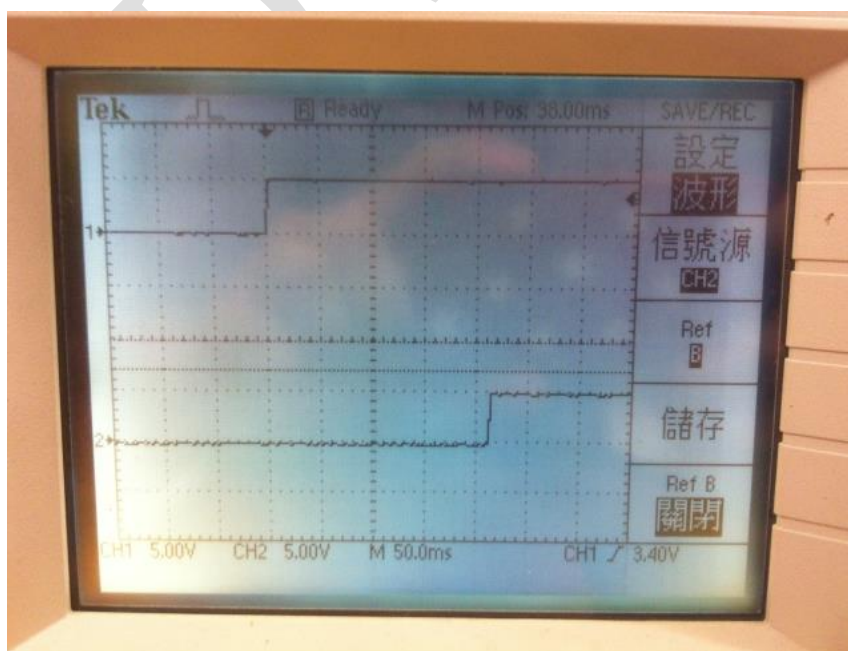
■ Brief Solution - Step by Step:

According to measurement of using oscilloscope, the process time from AI(ADAM-6017) trigger to AO(ADAM-6024) is approximately about 200ms.

The reason of AI-to-AO taking much longer than DI-to-DO is due to complication of A/D & D/A process, for instance:

Sampling of AI→MUX→A/D→CPU→P2P Data Transfer→CPU→D/A→AO Output.

So, unlike the pure DI/O mapping, most of time will be consumed by Sampling Process and AD/DA Conversion, which is why it normally takes longer for the output to reflect the behavior of analog input.



Mode

☒ Basic
 ☐ Advanced
 ☐ Disable

Apply

Basic (One to One)

Period time:

1

÷

second(s)

Deviation enable

☒

(C.O.S.)


Deviation Value:

1

÷

%FSR


Source



IP: 10.0.0.17

→

Destination



IP: 10.0.0.24

Modify channel enable

☐

	Channel	Enable	Range	Only positive value valid
▶	0	<input checked="" type="checkbox"/>	+/- 10 V	<input checked="" type="checkbox"/>
	1	<input checked="" type="checkbox"/>	+/- 10 V	<input checked="" type="checkbox"/>
	2	<input type="checkbox"/>	+/- 10 V	<input type="checkbox"/>
	3	<input type="checkbox"/>	+/- 10 V	<input type="checkbox"/>
	4	<input type="checkbox"/>	+/- 10 V	<input type="checkbox"/>

Refresh

Save

Load

Apply list