## **Advantech AE Technical Share Document**

Date	2019/11/6	SR#	1-3996200901
Category	■FAQ □SOP	Related OS	N/A
Abstract	How to read IO data through	ugh command line	e?
Keyword	IO tag, read, DC_tag, mu	ltiple tags, single	tags
Related	ADAM 2000 ECU 1152		1.1051
Product	ADAM-3600, ECU-1152	, ECU-1251, ECU	-1051

//read 1 time

Problem Description:

This document explains how to read IO data through command line.

Answer:

There are 2 commands:

1. dc\_tag\_read "tag\_name"

root@adam3600:~# dc\_tag\_read usage: dc\_tag\_read <tag\_name> ... or echo "<tag\_name>" ... | dc\_tag\_read or cat tag\_list.txt | dc\_tag\_read or dc\_tag\_read < tag\_list.txt root@adam3600:~#

2. dc\_tag\_read\_subscription "tag\_name" //read continuously until press Ctrl+C

```
root@adam3600:~# dc_tag_read_subscription
usage: dc_tag_read_subscription <tag_name> ...
or echo "<tag_name>" ... | dc_tag_read_subscription
or cat tag_list.txt | dc_tag_read_subscription
or dc_tag_read_subscription < tag_list.txt</pre>
```

Method 1: Read single tag

■ Ex: dc\_tag\_read "BoardIO:AI\_0"

```
root@adam3600:~# dc_tag_read_subscription "BoardIO:AI_0"
Current System Time: Tue Apr 1 14:04:26 2014
Tag Name
               Value
                               Quality Time Stamp (UTC)
BoardIO:AI 0
              0.701457
                               0000H 2014-04-01 06:04:27 (1396332267.667867)
Current System Time: Tue Apr 1 14:04:28 2014
Tag Name
               Value
                               Quality Time Stamp (UTC)
BoardIO:AI 0
               0.703593
                               0000H
                                       2014-04-01 06:04:28 (1396332268.628117)
Current System Time: Tue Apr 1 14:04:29 2014
```

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Method 2: Read multiple tags.

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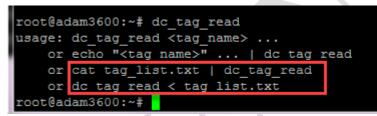
■ Ex: dc\_tag\_read\_subscription "BoardIO:AI\_0" "BoardIO:AI\_1"

root@adam3600:~ Current System				:AI_0" "Bo	pardIO:AI_1"
Tag Name	Value	Quality	Time Stamp	(UTC)	
BoardIO:AI_0 BoardIO:AI_1 Current System	7.749599	0000H	2014-04-01		(1396332189.905663) (1396332189.905663)
Tag Name	Value	Quality	Time Stamp	(UTC)	
BoardIO:AI_0 BoardIO:AI_1 Current System	7.749294	0000H	2014-04-01		(1396332190.863098) (1396332190.863098)

Tips: If you have a lot of tags, cannot type-in the tag\_name one-by-one, suggest to use \*.txt file.

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- 1. Export tags to excel
- 2. Copy-paste only tags to notepad.
- 3. Transfer the \*.txt file into ADAM-3600 under the executed folder.
- 4. #define MAX\_TAG\_COUNT



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Project Configuration «	ADAM3600_Hal	ey_260 😽	IO Tag	(ADAM3600_Haley_260-BoardIC	) ×							
ADAM3600_Haley_260	🔶 Add	🔀 Delete		Modify								
🖶 📥 Data Center [86]	Name	Data Type		Export Tags								
🖨 📕 IO Tag [28]	BoardIO:AI_0	Analog	3	Select devices to Excel	D Preview							
DAM-3600-C2GL1A1E	BoardIO:AI_1	Analog		ADAM-3600-C2GL1A1E-BoardI	BoardIO User	Tag Calc T	ag					
BoardIO [23]	BoardIO:AI_2	Analog		✓ User Tag ✓ Calc Tag	Name	Туре	Data Type	Initial Value	Description	Scan Rate	ReadWrite	Cor
COM1 [1]	BoardIO:AI_3	Analog		y calc ray	BoardIO:AI_0	IOTag	analog	0		1	1	0
	BoardIO:AI_4	Analog			BoardIO:AI_1	IOTag	analog	0		1	1	0
W COM3 [1]	BoardIO:AI_5	Analog			BoardIO:AI_2	IOTag	analog	0		1	1	0
	BoardIO:AI_6	Analog			BoardIO:AI_3	IOTag	analog	0		1	1	0
- Fag [58]	BoardIO:AI_7	Analog			BoardIO:AI_4	IOTag	analog	0		1	1	0
Calculation Tag [0]	BoardIO:DI_0	Discrete			BoardIO:AI_5	IOTag	analog	0		1	1	0
	BoardIO:DI_1	Discrete			BoardIO:AI_6	IOTag	analog	0		1	1	0
Data Storage	BoardIO:DI_2	Discrete			BoardIO:AI_7	IOTag	Success	x		1	1	0
Event Manager	BoardIO:DI_3	Discrete			BoardIO:DI_0	IOTag				1	1	0
KW Settings	BoardIO:DI_4	Discrete			BoardIO:DI_1	IOTag	Export Succes	5!		1	1	0
Connectivity	BoardIO:DI_5	Discrete			BoardIO:DI_2		5 ок			1	1	0
E- Cloud	BoardIO:DI_6	Discrete			BoardIO:DI_3	IOTag				1	1	0
🖮 🐻 System	BoardIO:DI_7	Discrete			BoardIO:DI_4	IOTag	discrete	0		1	1	0
	BoardIO:DO_0	Discrete			BoardIO:DI_5	-	discrete	0		1	1	0
	BoardIO:DO_1	Discrete			BoardIO:DI_6	IOTag	discrete	0		1	1	0
	BoardIO:DO_2 BoardIO:DO_3	Discrete			4							_
	BoardIO:DO_3	Discrete		Output								
				1.Export Calc Tag success!								
				Exported 3 devices to C:\Users\hal								

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### Reading result:

/home/root/				
名棋	大小	最後修改時間	權限	擁有者
tag.txt	1 KB	2000/1/1 下午 08:03:33 2019/11/6 下午 02:24:	rwxr-xr-x rw-rr	root root

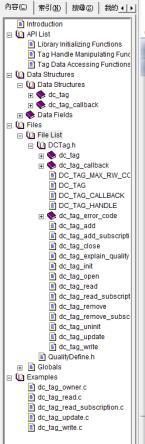
🛃 172.16.12.143 - F	PuTTY				
root@adam3600:	~# cat tag.txt	dc_tag_re	ead		
Tag Name	Value	Quality	Time Stamp	(UTC)	
BoardIO:AI 0	0.878157	0000H	2014-04-01	06:27:27	(1396333647.456311)
BoardIO:AI 1	7.665980	0000H	2014-04-01	06:27:27	(1396333647.456311)
BoardIO:AI 2	0.012665	0000H	2014-04-01	06:27:27	(1396333647.456311)
BoardIO:AI 3	0.003510	0000H	2014-04-01	06:27:27	(1396333647.456311)
BoardIO:AI 4	0.003815	0000H	2014-04-01	06:27:27	(1396333647.456311)
BoardIO:AI 5	0.003204	0000H	2014-04-01	06:27:27	(1396333647.456311)
BoardIO:AI 6	0.003204	0000H	2014-04-01	06:27:27	(1396333647.456311)
BoardIO:AI 7	0.003204	0000H	2014-04-01	06:27:27	(1396333647.456311)
BoardIO:DI 0	0.000000	0000H	2014-04-01	06:27:27	(1396333647.474124)
BoardIO:DI 1	0.000000	0000H	2014-04-01	06:27:27	(1396333647.474124)
BoardIO:DI 2	0.000000	0000H	2014-04-01	06:27:27	(1396333647.474124)
BoardIO:DI 3	0.000000	0000H	2014-04-01	06:27:27	(1396333647.474124)
BoardIO:DI 4	0.000000	0000H	2014-04-01	06:27:27	(1396333647.474124)
BoardIO:DI 5	0.000000	0000H	2014-04-01	06:27:27	(1396333647.474124)
BoardIO:DI 6	0.000000	0000H	2014-04-01	06:27:27	(1396333647.474124)
BoardIO:DI 7	0.000000	0000H	2014-04-01	06:27:27	(1396333647.474124)
BoardIO:DO 0	0.000000	0000H	2014-04-01	06:27:27	(1396333647.488744)
BoardIO:D0 1	0.000000	0000H	2014-04-01	06:27:27	(1396333647.488744)
BoardIO:DO 2	0.000000	0000H	2014-04-01	06:27:27	(1396333647.488744)
BoardIO:D0_3	0.000000	0000H	2014-04-01	06:27:27	(1396333647.488744)

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More detail can be found on support portal:

#### https://support.advantech.com/support/DownloadSRDetail\_New.aspx?SR\_ID=1-1DGHI7U&Doc

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Solution : BoardResource\_and\_DCTag\_SDK\_2.1.1 (Only support 32 bit compiling environment.)

Download File	Released Date	Download Site	
BoardResourceSDK_2.1.1.tar.gz	2017-07-31	Primary	Secondary
DCTagSDK_2.1.1.tar.gz	2017-07-31	Primary	Secondary

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