

Advantech AE Technical Share Document

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Category	■ FAQ □ SOP	Related OS	WinCE	
Abstract	How to achieve the persistent variables setting in Advantech Multiprog			
Keyword	persistent variables, Multiprog			
Related	ADAM-5550KW, ADAM-5560KW, APAX-5520KW			
Product	APAX-5522KW, APAX-5620KW, APAX-6572KW			

[Problem]

The KW Multiprog V5.35 doesn't support the persistent variables function. If you want to achieve this persistent variables function in Advantech PAC controller, you can use the below solutions.



[Solution]

Method 1:

You can declare the persistent variables in the share memory address as below

Properties		×				
Name:		OK				
Varl		Cancel				
Data Type:						
WORD	•	Help				
Usage:						
VAR_GLOBAL	🔻 📝 RETAIN					
Initial value:	Initial value:					
I/O address:						
%MW3.0						
Description:						
PDD OPC	Hidden					



Enabling an Intelligent Planet

Click the option "share memory are all retained when cold start".

I/O Configuration V3.0.0.31						10		X
Input Output Motion CO	M Port Modbus	TCP Client	Set Point Profile Pool	Struct Variable	s			
Driver Name Counter APAX5018 APAX5080CTI APAX5081PG DI APAX50400 APAX50400E APAX5040DE APAX5080DI APAX5080DI APAX5082DI Other BackupSys H-ModBus Protocol	Driver Name	Board ID	L/O Group Name	Task	Start Address	Size	Data Type	F
MODBUSRTU MODBUSTCP	•		III					۲
▼ 	Add	Insert	Remove	Config	Create Group Variables	Cre	eate All Group Variables	
v share memory are all retained when cold start								
save all retain memory to file (*.txt)								
file name: retain	.txt	(Remove Error Table	Create Error	Table	OK	Cancel	1

Then all the share memory data will be all retained when cold start like as the persistent variables.

Method 2:

If you want to achieve the persistent variables not on the share memory address, you can choose the option "save all retain memory to file (*.txt)".

I/O Configuration V3.0.0.31							
Input Output Motion CO	M Port ModbusTCP Clier	nt Set Point Profile Pool	Struct Variables				
Driver Name Counter APAX5080CTI APAX5080CTI APAX5081PG DI APAX50400 APAX5040PE APAX5040DI APAX5040DI APAX5040DI	Driver Name Board	ID I/O Group Name	Task	Start Address	Size	Data Type	F
APAX5082DI Other BackupSys ModBus Protocol MODBUSRTU MODBUSRTU MODBUSRTCP Other DEMOIO	<	m					•
Add Insert Remove Config Create Group Variables Variables							
Image: share memory are all retained when cold start Image: save all retain memory to file (*.txt) file name: retain .txt Remove Error Table OK Cancel							

Revision: 1.0



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The persistent variables must click the retain option as below

Properties		X
Properties Name: Var2 Data Type: WORD Usage: VAR_GLOBAL Initial value: I/O address: Description:	▼ ▼ RETAIN	OK Cancel Help
PDD OPC	☐ Hidden ☐ Initvalue as default	

You can use the FB "AdvRestoreReain" to restore all the retain variables. Therefore, you need to add one task when PAC controller cold start.

