

Backing Up Retained Variable Memory (CSV Format)

Steps

This section describes how to back up the memory of retained variables from the PLC (csv format).
The following retained variables can be acquired in the csv format.

- Present values of retain attribute variables

* If you need the backup data of memory used for CJ-series Units, obtain a backup in the xml format.
You can check the values of csv format backup in Excel.

- ① Go online with the PLC.
- ② Select to backup variables and memory and select the target retained variables.
- ③ Execute the backup.

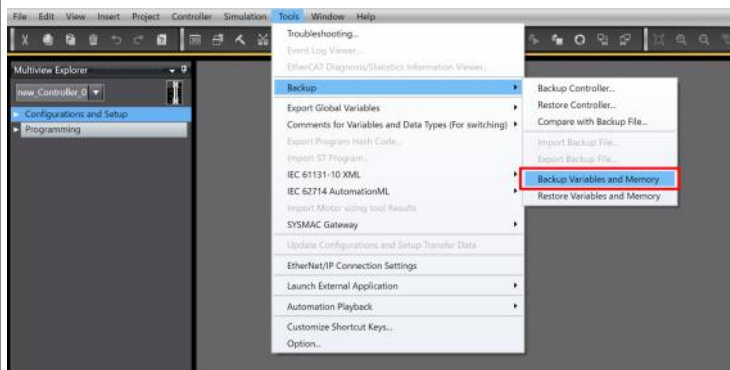
Detailed Steps

① Go online with the PLC.

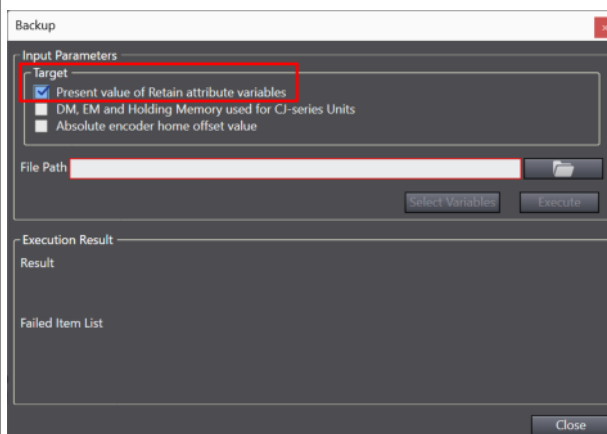
Refer to "[Going Online with an NJ/NX Controller](#)".

② Select to backup variables and memory and select the target retained variables.

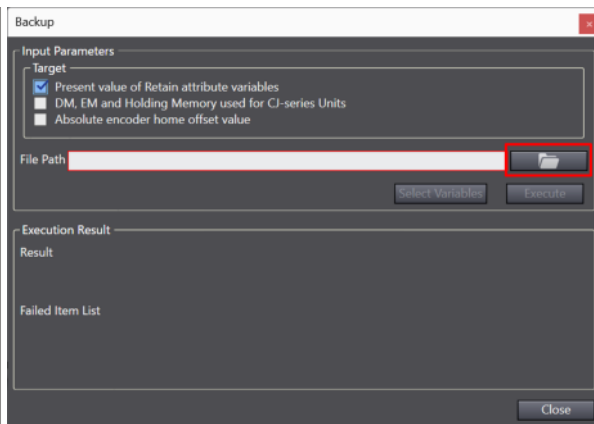
Click [Tools] - [Backup] - [Backup Variables and Memory] from the menu.



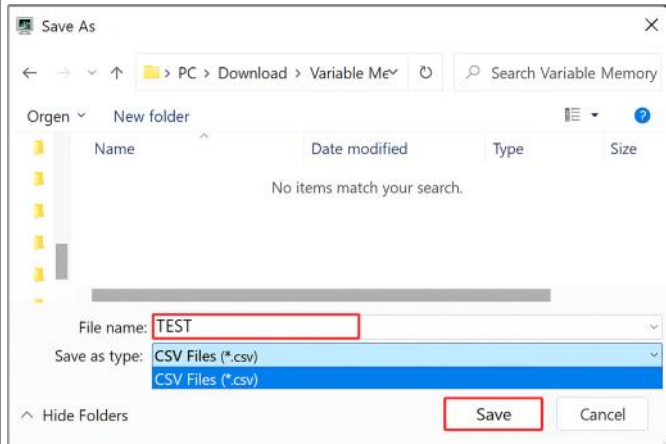
Select the check box for "Present value of Retain attribute variables" from the Target in the Input Parameters area.



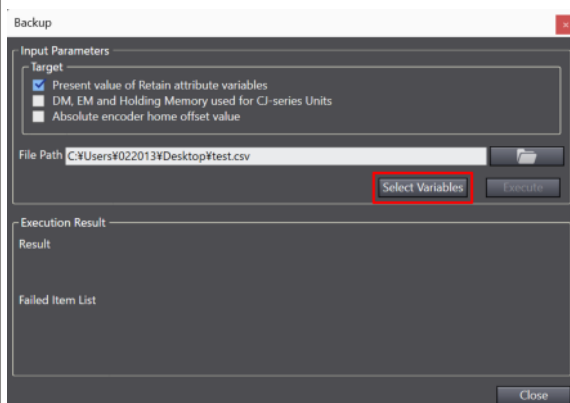
Click the button shown in the red frame in the figure below.



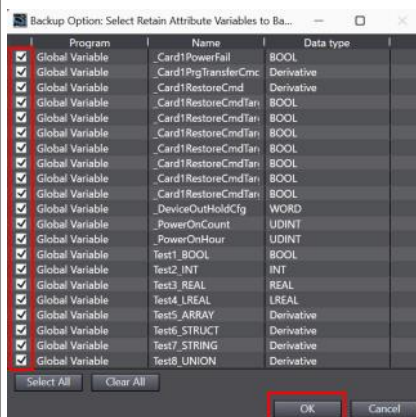
Enter the file name to be exported and select the "csv file" for the file format.



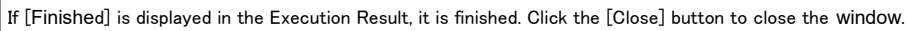
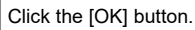
Click the [Select Variables] button.



Select the variables to acquire backup and press the [OK] button.



③ Execute the backup.
Click the [Execute] button.



Backup Option: Select Retain Attribute Variables to Backup

Program	Name	Data type
Global Variable	Card1ProgPowerFail	BOOL
Global Variable	Card1ProgTransferCmc	Derivative
Global Variable	Card1RestoreCmd	Derivative
Global Variable	Card1RestoreCmdTan	BOOL
Global Variable	Card1RestoreCmdTan	BOOL
Global Variable	Card1RestoreCmdTan	BOOL
Global Variable	Card1RestoreCmdTan	BOOL
Global Variable	Card1RestoreCmdTan	BOOL
Global Variable	Card1RestoreCmdTan	BOOL
Global Variable	Card1RestoreCmdTan	BOOL
Global Variable	DeviceOutHoffCtg	WORD
Global Variable	PowerOnCount	UJINT
Global Variable	PowerOnHour	UJINT
Global Variable	Test1_BOOL	BOOL
Global Variable	Test2_INT	INT
Global Variable	Test3_REAL	REAL
Global Variable	Test4_LREAL	LREAL
Global Variable	Test5_ARRAY	Derivative
Global Variable	Test6_STRUCT	Derivative
Global Variable	Test7_STRING	Derivative
Global Variable	Test8_UNION	Derivative

Select All Clear All OK Cancel

* The created csv file format is as shown below.

	A	B	C	D	E	F	G
9		(INT)					
10			9999				
11							
12	Test3_REAL	Variable name	VAR://Test3_REAL				
13			(REAL)				
14			Data type				
15			1.234	Value			
16	Test4_LREAL		VAR://Test4_LREAL				
17			(LREAL)				
18			1.2345				
19							
20	Test5_ARRAY		VAR://Test5_ARRAY				
21			(INT)				
22	[0]		1				
23	[1]		10				
24	[2]		100				
25	[3]		1000				
26	[4]		10000				
27	[5]		1				
28	[6]		2				
29	[7]		3				
30	[8]		4				
31	[9]		5				
32							
33	Test6_STRUCT		VAR://Test6_STRUCT				
34			INTdata/(INT)				
35			0	BOOLdata/(BOOL)	LREALdata/(LREAL)	INTARRAYdata[0]/(INT)	INTARRAYdata[1]/(INT)
36			TRUE	1.234	1	2	INTARRAYdata[2]/(INT)
37	Test7_STRING		VAR://Test7_STRING				
38			(STRING[256])				
39			ABCDEF				
40							