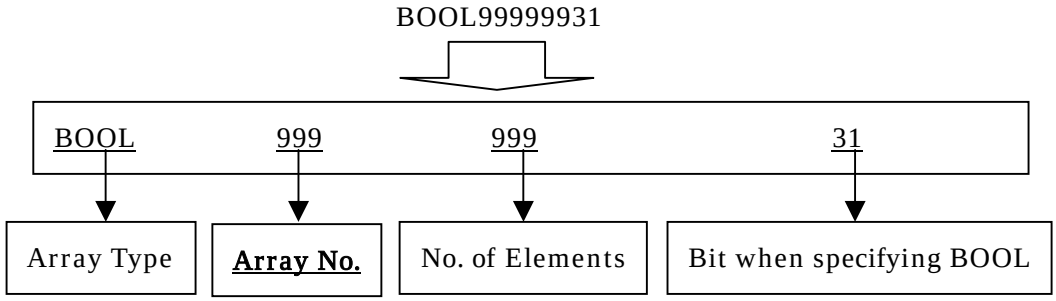
Connecting Rockwell (Allen-Bradley) PLC

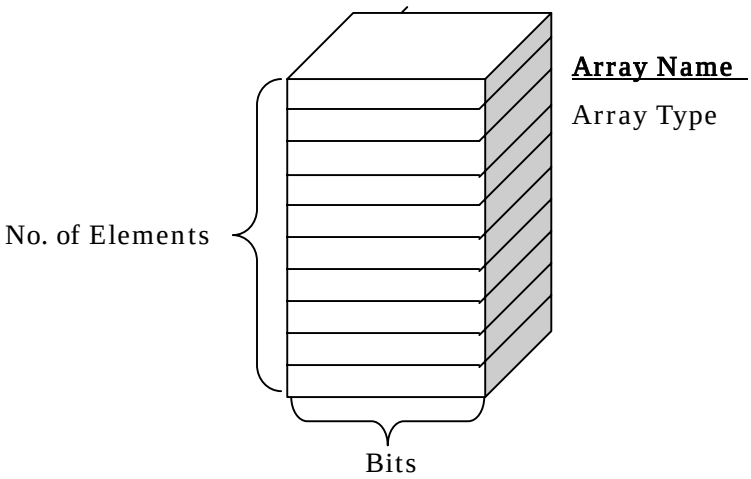
Controllogix 5000 Series - DF1 Serial

How to see Addresses of Controllogix and GP-PRO/PBIII

[Seeing Address on GP-PRO]



!!! Now, let's recall the arrays assigned on ControlLogix !!!



IMPORTANT ! !

Array No. (GP-PRO) = Array Name (ControlLogix)

IS WRONG ! !

Now what you need to do is....

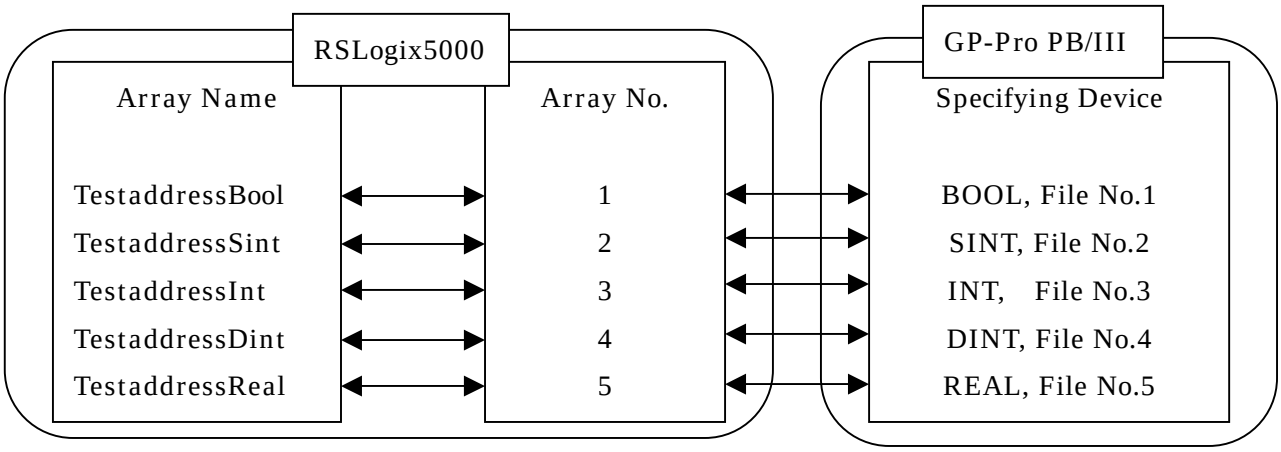
Mapping

Mapping

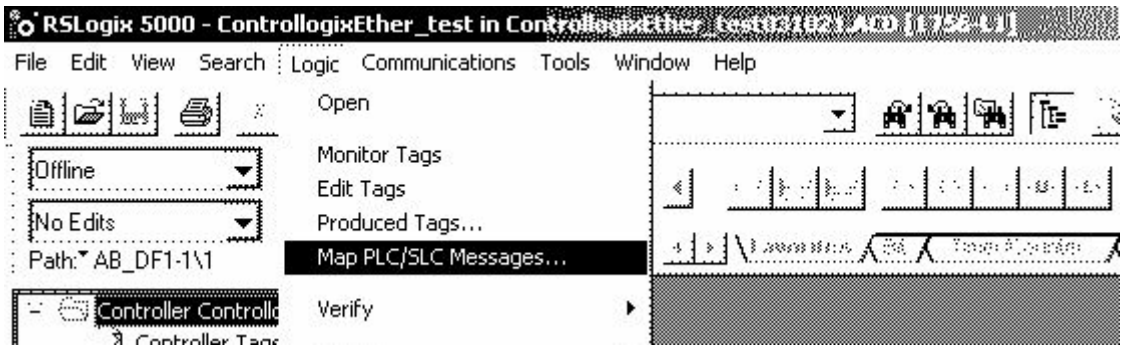
[What is mapping?]

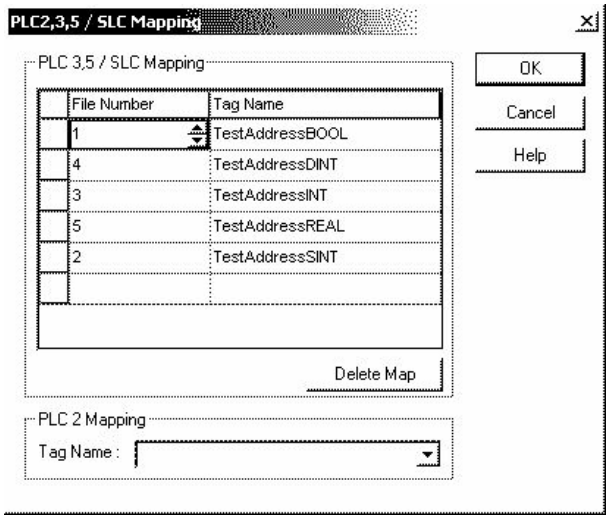
If you set addresses on GP-PRO PB/III, you cannot specify the array names (Tag Name). Instead of specifying the array names, select the array numbers. These file numbers are specified arbitrarily. You may need to map the array names and numbers on RSLogix5000. This procedure is called "Mapping".

E.g.)



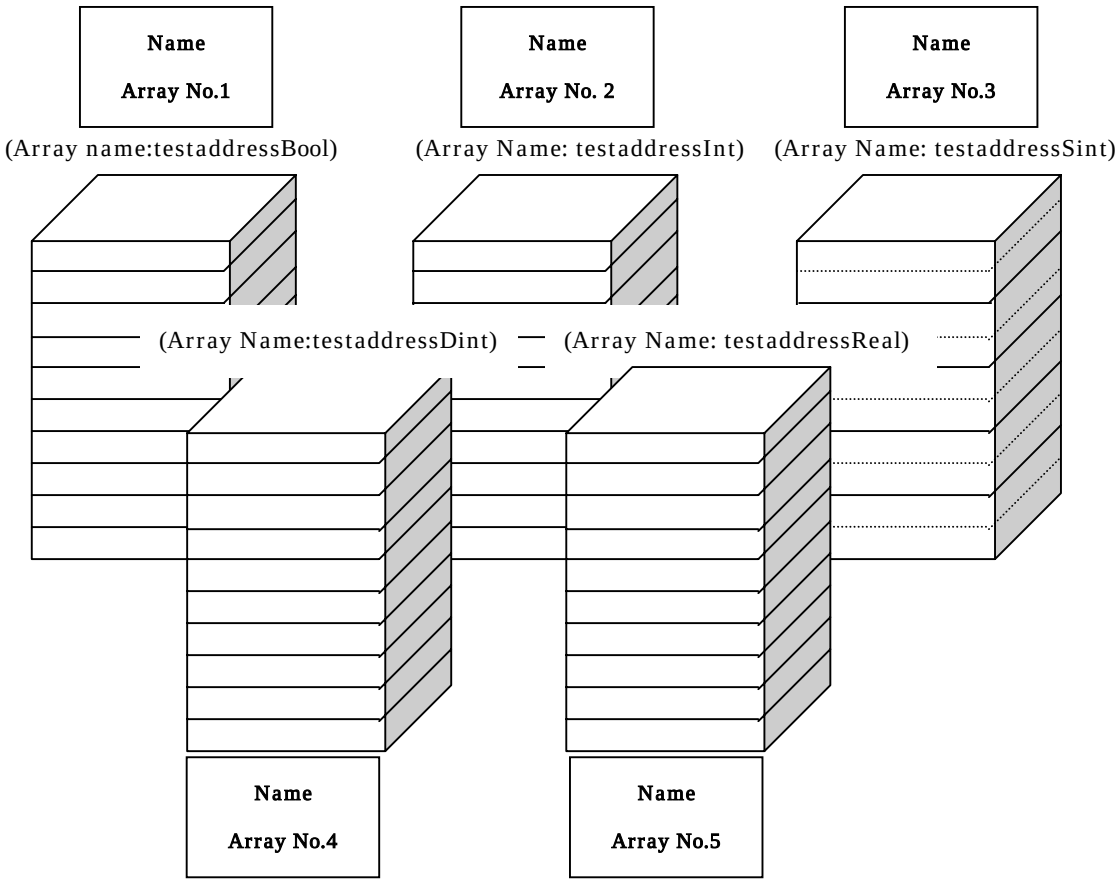
Slect [Logic] --> [Map PLC/SLC Messages...] to start mapping.





Specify an array number for File Number, and select an array name for Tag Name. You can specify the array name from the pull-down menu on Tag Name.

By the above settings, file numbers are named toward each Tag Name as below.



* Array numbers (File Number) cannot be duplicated in any array type.

[Precautions for Address]

* Range of Accessible Address with GP-PRO PB/III

	Device	Bit Address	Word Address	Remark	
1	Bit	BOOL00000000 to BOOL99999931	BOOL000000 to BOOL999999		L/H
2	8 bit integer	----------	SINT000000 to SINT999998	Bit7 ÷2	
3	16 bit integer	----------	INT000000 to INT999999	Bit15	
4	32 bit integer	----------	DINT000000 to DINT999999	Bit32	
5	32 bit float	----------	REAL000000 to REAL999999		H/L

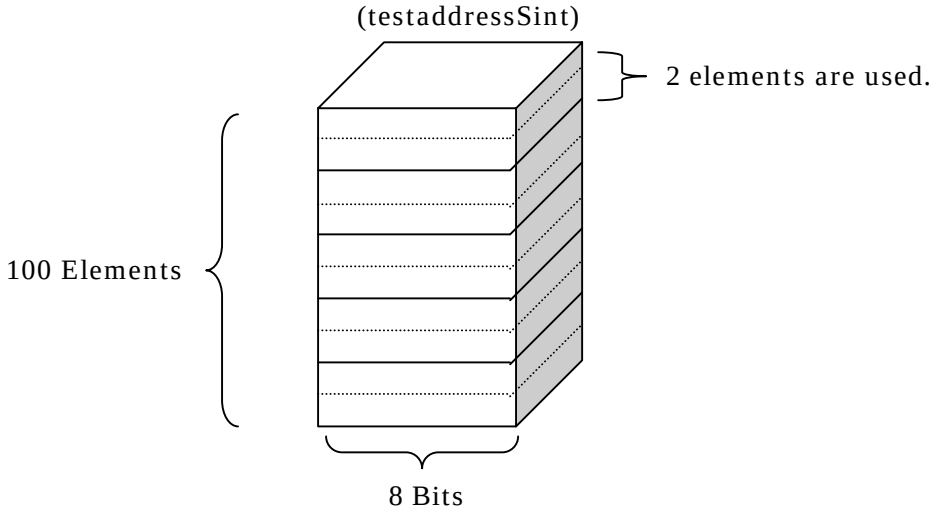
* Specify the INT device for the system start address. Also create the INT array on RSLogix. Without creating, an address error will occur.

* In case to specify REAL (Floating Point), only 32-bit float settings of E tag and K tag can be used.

* In case that BOOL is specified, the notations of RSLogix and that of GP-PRO PBIII are different.

GP-PRO/PBIII	00000000 to 00000031	00000100 to 00000131	00000200 to 00000231	-	00099900 o 00099931
RS-Logix	0 to 31	32 to 63	64 to 95	-	31968 to 31999

* In case that SINT is specified, you cannot specify an odd number for elements with GP-Pro PB/III. Specify an even number.



* With GP-PRO, up to 64 data can be read/written toward the arrays set with RSLogix. The array number to assign can be set with up to 999.