

Upgrade Information of MPE720 Version 5.44

1. Added and Improved Functions

Items added and features improved from MPE720 version 5.43 to version 5.44 are as follows.

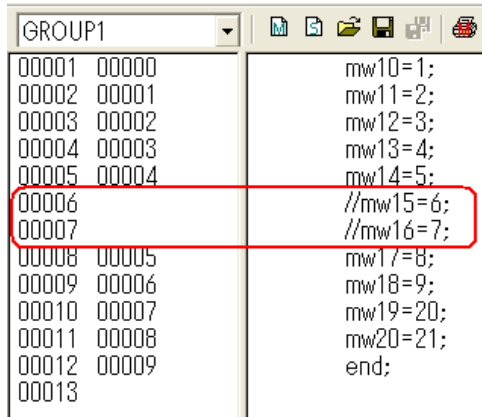
No.	Feature	Classification
1	Support to one-line comment instruction in motion program.	Added function
2	Support to MECHATROLINK-II decentralization I/O module.	Added function
3	Support to M-EXECUTOR function.	Added function
4	Support to sequence program function.	Added function
5	Support to CF card transfer function.	Added function
6	Improvement of transfer function.	Added function
7	Improvement of function selection flag processing.	Added function
8	Improvement of installer.	Preventive
9	Bug of drawing map processing when transferring it in new mode.	Preventive
10	Detection of the PFORK nest error.	Preventive
11	Improvement of motion program PFORK-SFORK saving.	Preventive
12	Improvement of new ladder cross reference trouble.	Preventive
13	Support to the module configuration check processing trouble.	Preventive
14	M-EXECUTOR definition saving trouble.	Preventive
15	Defect of register range check when module is changed.	Preventive
16	CNTR-01 print result error.	Preventive
17	The wizard ends illegally by a simple operation.	Preventive
18	Mistake of current step in PFORK at debugging mode.	Preventive
19	Problem of the version information in the SERVOPACK parameter backup file.	Preventive
20	Bug of ladder display update.	Preventive
21	Trouble when the current value of SERVOPACK is acquired.	Preventive
22	Bug of motion program saving privilege.	Bug fix
23	Bug of simple mode display.	Bug fix
24	Bug of motion program single quote use.	Bug fix
25	Bug of application converter.	Bug fix

2. Description

No.1 Support to one-line comment instruction in motion program.

One-line comment instruction "//" was added to the motion program.

This instruction treats from "//" to line feed as a comment.



GROUP1	
00001	00000
00002	00001
00003	00002
00004	00003
00005	00004
00006	//mw15=6;
00007	//mw16=7;
00008	00005
00009	00006
00010	00007
00011	00008
00012	00009
00013	

mw10=1;
mw11=2;
mw12=3;
mw13=4;
mw14=5;
mw17=8;
mw18=9;
mw19=20;
mw20=21;
end;

No.2 Support to MECHATROLINK-II decentralization I/O module.

It supported to IO2900/2910 that was MECHATROLINK-II decentralization I/O module.

Equipment name	Specification
JAMSC-IO2900	- DC output module - DC12/24V, 16 point output
JAMSC-IO2910	- DC input module - DC12/24V, 16 point input

< Support controller >

Controller	Support version
MP2000 series	Ver2.66 and later
SVB-01 module	Ver1.24 and later

< MECHATROLINK-I selection >

PT#:- CPU#:- RACK#01

Transmission Parameters Link Assignment I/O Map Status

ST#	TYPE	D	INPUT	SIZE	D	OUTPUT	SIZE	SCAN
01								
02	ABS_CODER							
03	*****I/O							
04	120DRA83030							
05	120DAI53330							
06	120DAI73330							
07	120DDI34330/IQ2900							
08	120DDQ34340/IQ2910							
09	120AVI02030							
10	120AVO01030							
11	120EHC21140							
12	120MMB20230							
13	120DAO83330							
14	VS-676H5							
15	VS-676H5T							
16	VS-616G5							
17	VS-7Series							

< MECHATROLINK-II (32/17 byte mode) selection >

PT#:- CPU#:- RACK

Transmission Parameters Link Assignment I/O Map Status

ST#	TYPE	D	INPUT	SIZE	D	OUTPUT	SIZE	SCAN
01								
02	SteppingMotorDRV							
03	*****SERVO							
04	JUSP-I*****M****							
05	JEPMC-IQ2310/30							
06	JEPMC-IQ2320							
07	JEPMC-PL2900							
08	JEPMC-PL2910							
09	JEPMC-AN2900							
10	JEPMC-AN2910							
11	SVB-01							
12	YV250							
13	AB023-M1							
14	*****I/O							
15	IQ2900							
16	IQ2910							
17	VS-7Series							

No.3 Support to M-EXECUTOR function.

The M-EXECUTOR function was added to MP2100/MP2100M.

Select Rack Enable/Disable

Rack 1	Enable
Rack 2	Disable
Rack 3	Disable
Rack 4	Disable

Controller

Rack 1 | Rack 2 | Rack 3 | Rack 4 |

Slot Number	00	01	02
Module Type	2100M/2500M	SVB-01	263IF-01
Status			

2100M/2500M: Controller module with network servo control, I/O virtual axes.

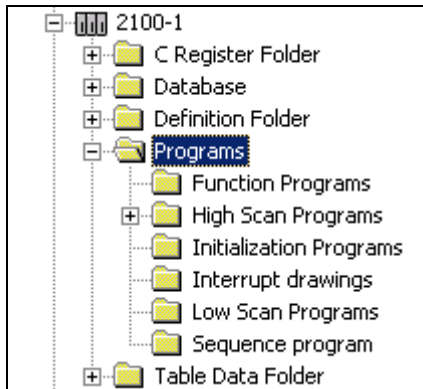
Module Details MP2100M RACK#01 SLOT#00

Slot Number	1	2	3	4	5	6	7	8
Module Type	CPU	IO	SVB	SVR	UNDEFINED	UNDEFINED	UNDEFINED	M-EXECUTOR
Circuit Number	-	-	01	02	-	-	-	M-EXECUTOR
I/O Start Register	---	0000	0002	---	---	---	---	UNDEFINED
I/O End Register	---	0001	0401	---	---	---	---	1841
Disable Input	Enable	Enable	Enable	Enable	Enable	Enable	Enable	Enable
Disable Output	Enable	Enable	Enable	Enable	Enable	Enable	Enable	Enable
Motion Start Register	---	---	8000	8800	---	---	---	---
Motion End Register	---	---	87FF	8FFF	---	---	---	---
Details	MECHATROLINK							
Status								

M-EXECUTOR : Program control function.

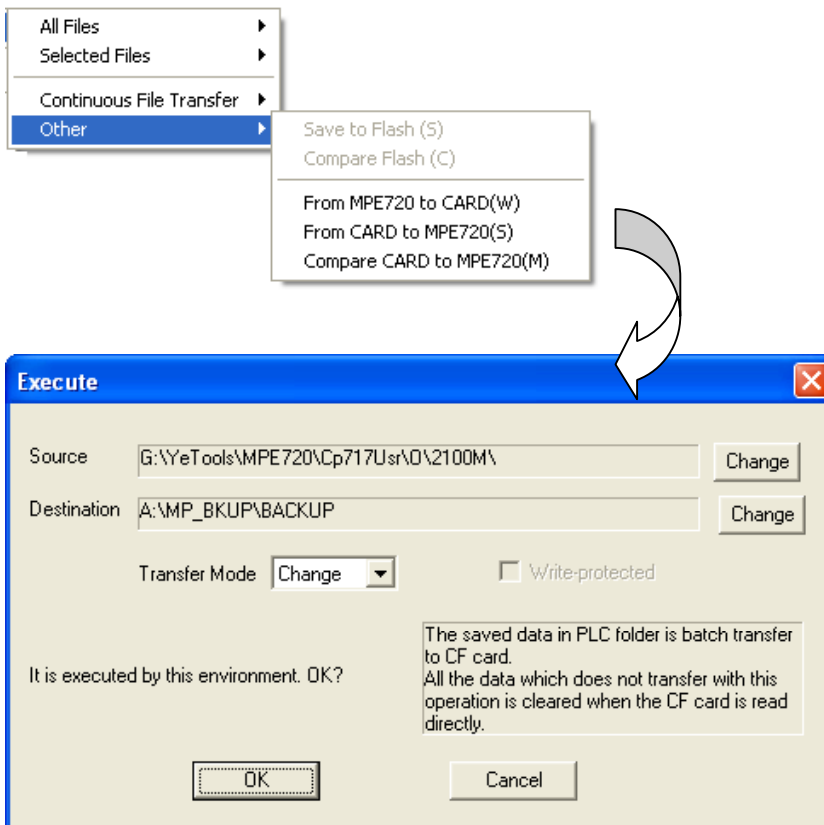
No.4 Support to sequence program function.

It supported to the sequence program function with MP2100/MP2100M.



No.5 Support to CF card transfer function.

The CF card transfer function that had been supported up to now only when MP2200-02 was selected was developed with the MP2000 series all models.

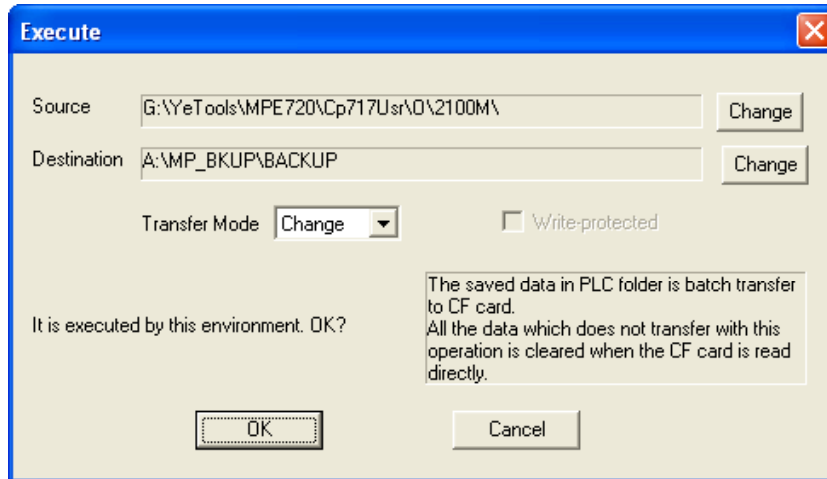


No.6 Improvement of transfer function.

In transfer, when the compression transmission is selected, an internal transfer mode is transferred by "New".

However, it was displayed on the transfer screen, "Change".

Therefore, the transfer mode when the compression transmission was selected displayed, "New".



No.7 Improvement of function selection flag processing.

All of a possible function to use with MPE720 at that time were able to be used at off-line when the function newly added by the controller upgrade is provided. The function that the controller who connected it was supporting it was acquired, and only a possible function for the controller to use was made effective at online.

No.8 Improvement of installer.

The problem that the installation of MPE720 is not normally completed occurred according to the application installed in the PC environment used beforehand occasionally. Therefore, this was corrected.

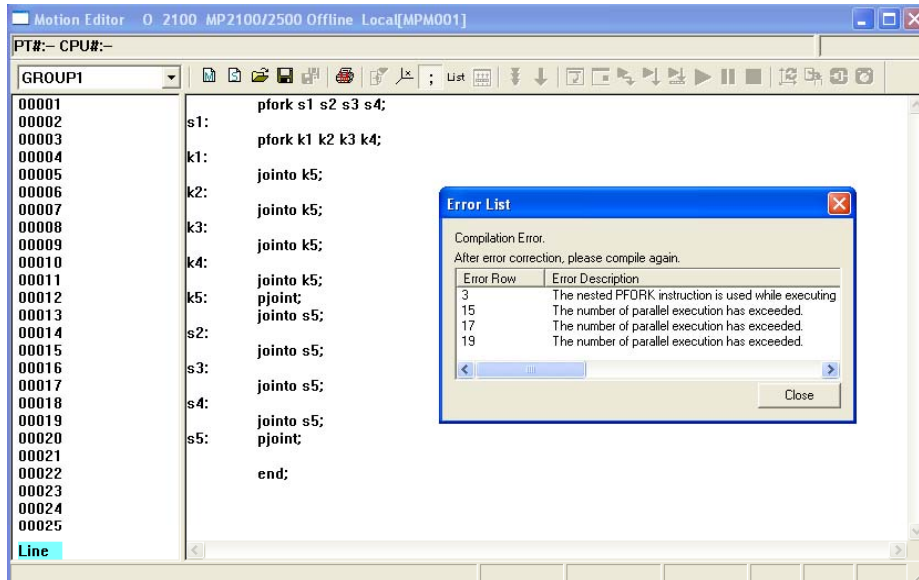
No.9 Bug of drawing map processing when transferring it in new mode.

It is a specification transferred after program information in the folder at the transferring destination is deleted when "New" mode is transferred. However, map information on the transferring destination had not been deleted for the motion program and the sequence program.

When "New" had already been transferred to the folder where the program existed, program information where substance did not exist remained occasionally. Therefore, this was corrected.

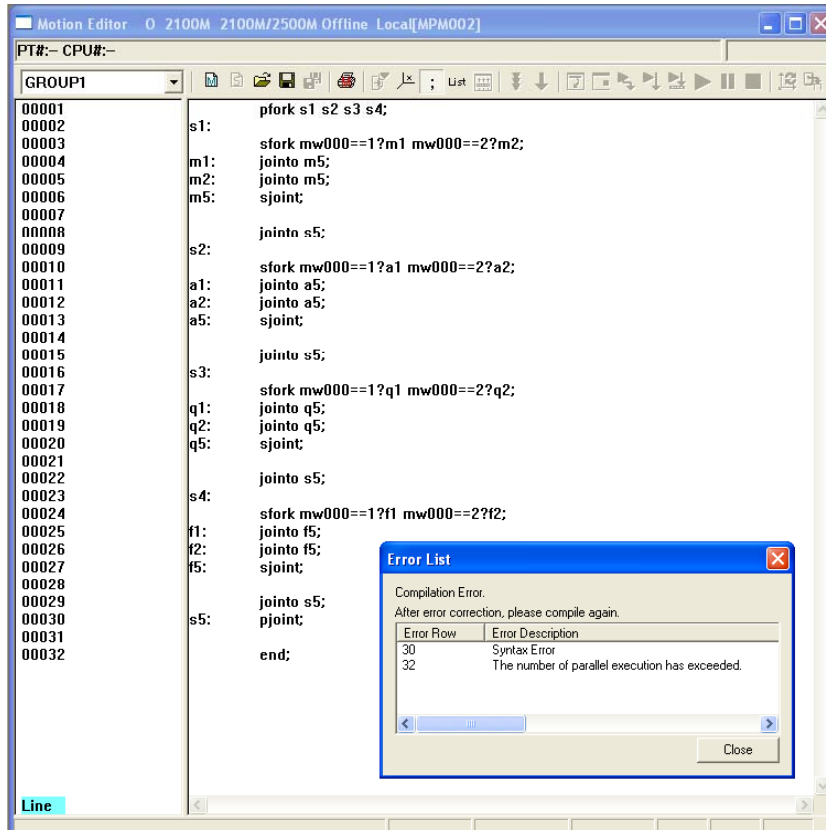
No.10 Detection of the PFORK nest error.

The saving error occurs if the nest of PFORK in the motion program at on-line, but no error occurs at off-line. Therefore, this was corrected.



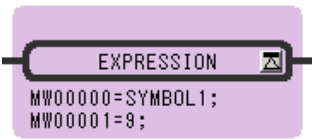
No.11 Improvement of motion program PFORK-SFORK saving.

The number of parallel execution occurred when four diverged parallel because of the PFORK instruction, and the SFORK instruction was used in each parallel processing and, up to now, the error of "The number of parallel execution has exceeded." had occurred in spite of in the limitation. Therefore, this was corrected.



No.12 Improvement of new ladder cross reference trouble.

The expression of two or more lines is described in Expression, the following symbols and registers are described in that, and the operational expression that exists together is described.



Symbol allocation: SYMBOL1=MW900;
* The symbol allocations are not in MW000 and MW001.

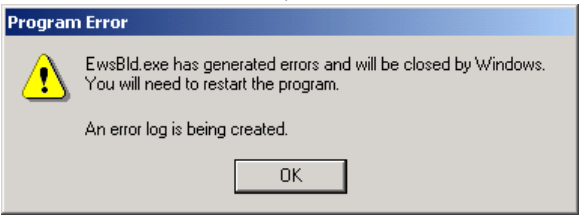
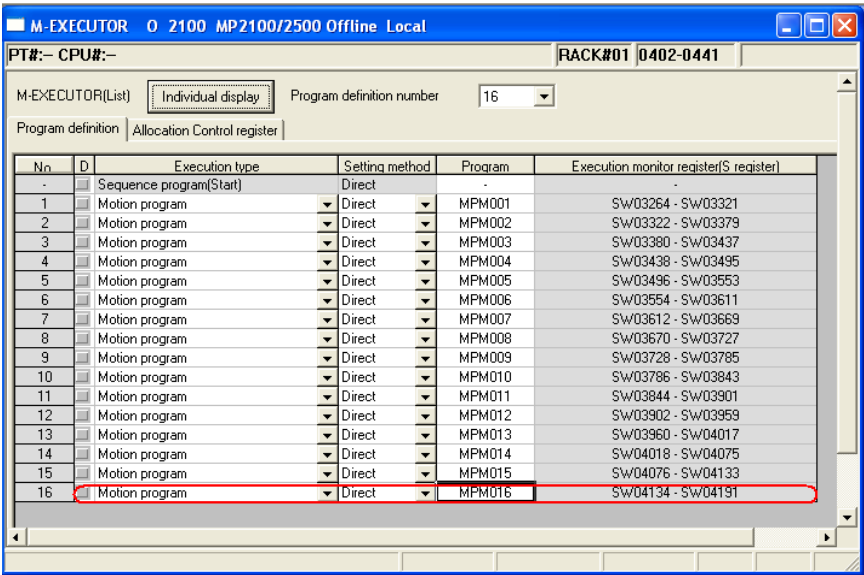
Under such a condition, there was a problem that assumed that symbol "SYMBOL1" was allocated to MW001 as a crossing retrieval result when MW001 was retrieved and was retrieved. Therefore, this was corrected

No.13 Support to the module configuration check processing trouble.

The disagreement had not been detected though data with different number of module configuration existed as HDD and a controller. Therefore, this was corrected.

No.14 M-EXECUTOR definition saving trouble.

It terminated abnormally when 16 programs were registered on the M-EXECUTOR screen occasionally. Therefore, this was corrected.



No.15 Defect of register range check when module is changed.

The register range check was abnormally executed, when the changing the allocation from two subslot option module to one subslot option module. Therefore, this was corrected.

Controller

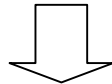
Slot Number	00	01	02	03
Module Type	NSC50-02	UNDEFINED	UNDEFINED	LIQ-02
Controller Number	-	-	-	-
Circuit Number	-	-	-	-
I/O Start Register	----	----	----	----
I/O End Register	----	----	----	----
Disable Input				
Disable Output				
Motion Start Register	----	----	----	----
Motion End Register	----	----	----	----
Details				
Status				

LIQ-02: Sourcing I/O and counter functions.

Module Details: LIQ-02 SLOT#03

Slot Number	1	2
Module Type	LIQ	CNTR
Controller Number	-	01
Circuit Number	-	-
I/O Start Register	0C00	0C02
I/O End Register	0C01	0C21
Disable Input	Enable	Enable
Disable Output	Enable	Enable
Motion Start Register	----	----
Motion End Register	----	----
Details		
Status		

LIQ: Local I/O function.



Controller

Slot Number	00	01	02	03
Module Type	NSC50-02	UNDEFINED	UNDEFINED	LIQ-04
Controller Number	-	-	-	-
Circuit Number	-	-	-	-
I/O Start Register	----	----	----	----
I/O End Register	----	----	----	----
Disable Input				
Disable Output				
Motion Start Register	----	----	----	----
Motion End Register	----	----	----	----
Details				
Status				

LIQ-04: I/O (Sinking)

Module Details: LIQ-04 SLOT#03

Slot Number	1
Module Type	LIQ32
Controller Number	-
Circuit Number	-
I/O Start Register	0C00
I/O End Register	0C01
Disable Input	Enable
Disable Output	Enable
Motion Start Register	----
Motion End Register	----
Details	
Status	

LIQ: This is local I/O module that has input 32 points, output 32 points, in

Module Configuration
The register range is overlapped.
OK

No.16 CNTR-01 print result error.

When the setting data of CNTR-01 was printed, the value of fixed parameter No.13 was wrong. Therefore, this was corrected.

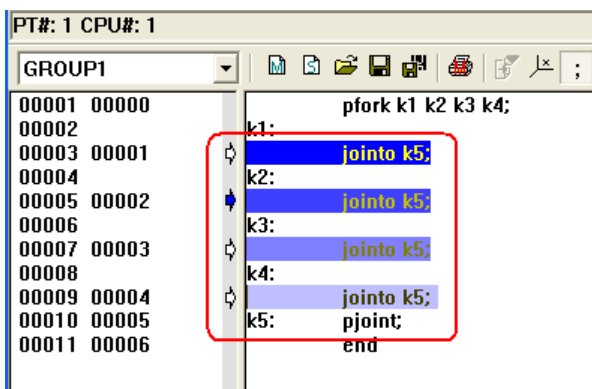
SYNC-SCAN = E			
NO.	Fix Parameter Name	CR# 1	CR# 2
1	Channel selection	unused	unused
2	The First Register Number	0000	0020
3	A/B-Pulse Signal form Selection	+5V differential input	+5V differential input
4	C-Pulse signal type	+5V differential input	+5V differential input
5	A/B-Pulse Signal Polarity	Positive logic	Positive logic
6	C-Pulse signal polarity selection	Positive logic	Positive logic
7	Pulse Counting Mode Selection	A/B pulse x4	A/B pulse x4
8	Counter Mode Selection	Reversible counter	Reversible counter
9	Coincidence Detection Function Use Selection	not used	not used
10	Coincidence Interrupt Function Use Selection	not used	not used
11	Frequency calculation selection	X1	X1
12	Mask of Calculation by C-Pulse	disable	disable
13	Ring-Counter function selection	Finite length axis	Finite length axis
14	Reference Unit Selection	pulses	pulses
15	Number of Digits Below Decimal Point	3	3
16	Travel Distance per Machine Rotation	0000010000	0000010000
17	Encoder Gear Ratio	00001	00001
18	Machine Gear Ratio	00001	00001
19	Maximum value of Ring Counter	0000360000	0000360000
20	Encoder Resolution (Pre Quadrature)	0000016384	0000016384
21	Feedback speed moving average time constant	10	10

No.17 The wizard ends illegally by a simple operation.

When the application was generated automatically, the application of a simple operation had been downed when a simple operation was executed in the environment of Windows Vista and Windows XP-SP3. Therefore, this was corrected

No.18 Mistake of current step in PFORK at debugging mode.

A current execution step had moved to the second parallel divergence when step into/step over to PFORK. This was corrected because there was such a problem.



No.19 Problem of the version information in the SERVOPACK parameter backup file.

When a specific SERVOPACK was connected, the version information in SERVOPACK parameter backup file was not correctly stored. Therefore, this was corrected.

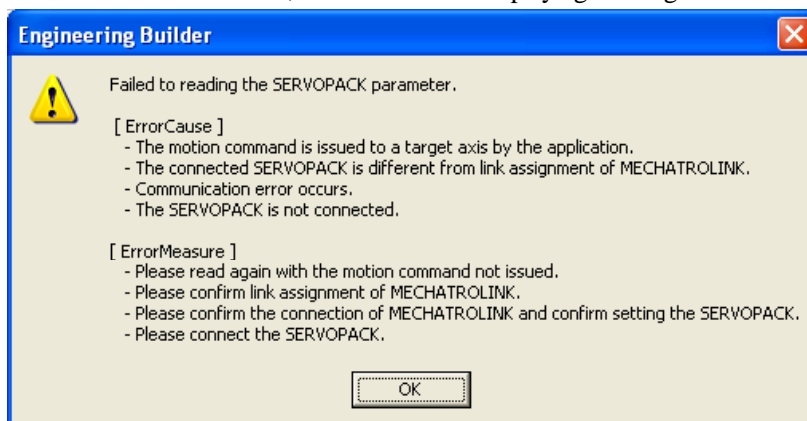
No.20 Bug of ladder display update.

This was corrected because the screen display did flicker when the scroll key was pushed and it was displayed.

PT#:-- CPU#:--		
1 0000	MB000000	MB000001
1 0002	MB000000	MB000001
1 0004	MB000000	MB000001
1 0006	MB000000	MB000001
1 0008	MB000000	MB000001
1 0010	MB000000	MB000001
1 0012	MB000000	MB000001
1 0014	MB000000	MB000001
1 0016	MB000000	MB000001
1 0018	MB000000	MB000001
1 0020	MB000000	MB000001

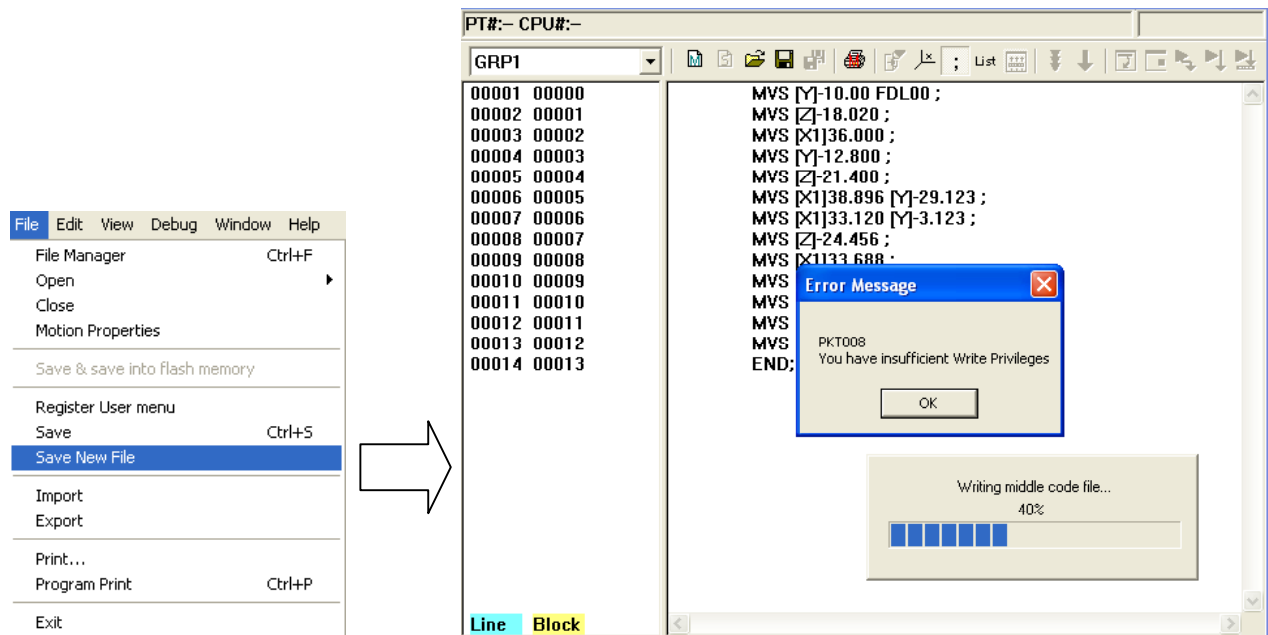
No.21 Trouble when the current value of SERVOPACK is acquired.

Even if reading failed in the acquisition of the current value from SERVOPACK, it was normally occasionally displayed that it had ended. Therefore, it corrected it like displaying warning.



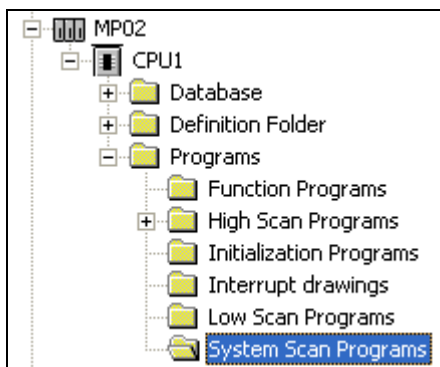
No.22 Bug of motion program saving privilege.

Because the error "You have insufficient Write Privileges" occurred if "Save New File" was executed for an existing motion program and it was not possible to save it, this was corrected.



No.23 Bug of simple mode display.

When a simple mode was selected, "System Scan Programs" was being displayed even by the controller who was not supporting to "System Scan Programs" in the file manager. Therefore, this was corrected



No.24 Bug of motion program single quote use.

When a single quote was used while commenting on the motion program, the compile error was occasionally generated. Therefore, this was corrected.

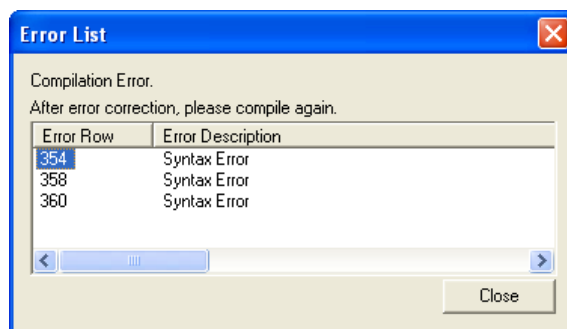
```

III: PJOINT;
;
MVS [Z]-1.700 [Y]-13.000 F3000K PFN;
MVS [Y]-25.000 F3000K PFN;
MVS [Z]-6.310 F6000K PFN;
MVS [W]-61.000 F1000K PFN;
MVS [Z]-11.450 F5000K PFN;
;
OB101B=0;

```

~Y-AXIS add ('08.1.21)

~OLD -1.050('08.1.21)



No.25 Bug of application converter.

When the application converter was executed, the drawing name specified by the SEE instruction in the drawing became an empty column occasionally. Therefore, this was corrected.

