NCCPU 204	Present Position Read(REAL): _NCCPU204_ReadActualPosition_REAL

Basic function	Reads the present position of the specified axis.
Symbol	
File name	Lib\FBL\omronlib\ PositionController \NC-CPU(CJ1MCPU2x)_NCCPU204_ReadActualPosition_REAL10.cxf
Applicable models	**CPU Unit** — CJ1M-CPU21/22/23 Unit version 3.0 or higher / CP1L-***DT-* / CP1L-***DT1-* **CX-Programmer** — Version 5.0 or higher
Conditions for usage	None
Function description	Reads the status of the output specified with the Axis No. (Axis) continuously as long as the Output enabled (Enable) is ON. When the Output enabled (Enable) is turned OFF, the Present position (Position) will be cleared to 0. The Present position read completed (Done) is turned ON while valid present position is being read and output. The Error flag (Error) will be turned ON and the Error code (ErrorID) will be output if an error occurs for this FB. Strictly speaking, they are respectively turned ON or output only when Axis No. (Axis) is set out of range. They are output by this FB, combining the states of the Status Bits in the Bit Area of the applicable CPU Unit. These statuses, Present position read completed (Done)/ Error flag (Error)/ Error code (ErrorID), will be reset when Output enabled (Enable) turns OFF.
Kind of FB definition	Connect Always ON type Connect the EN input to the Always ON Flag (P_ON). The same instance cannot be used in two or more places.
EN input condition	• Connect the EN input to the Always ON Flag (P_ON). • If a different type of bit is connected to EN, the FB outputs will be maintained when the connected bit is turned OFF.
Application example	Reads the present position of the pulse output 0 on the CJ1M-CPU Unit when the Bit A is turned ON and outputs it to D0.

Related manuals	CJ1M CPU Units Operation Manual (W395)
	  4-3 Auxiliary Area Data Allocation
	  6-3-3 Origin Search Error Processing（Pulse Output Stop Error Codes）
	SYSMAC CP Series CP1L CPU Unit Operation Manual (W462)

■ Variable Table
Input Variables

Name	Variable name	Data type	Default	Range	Description
EN	EN	BOOL			1 (ON): Starts FB 0 (OFF): Does not start FB
Axis No.	Axis	INT	&0	&0 to &1	&0: Pulse output 0 &1: Pulse output 1
Enable output	Enable	BOOL	0(OFF)		1 (ON): Enables output 0 (OFF): Turns OFF output

Output Variables

Name	Variable name	Data type	Range	Description
ENO	ENO	BOOL		1 (ON): FB operating normally 0 (OFF): FB not operating normally
Present position read completed	Done	BOOL		Turns ON when present position read is completed normally.
Error flag	Error	BOOL		Turns ON when present position read is ended with an error.
Error code (May be omitted)	ErrorID	WORD		The error code of the error occurred in the FB will be output. For details of the errors, refer to the sections of the manual listed in the Related manuals above. When Unit No. or Axis. No. is out of the range, #0000 will be output.
Present position	Position	REAL	-2.147484e+009 to +2.147484e+009	Outputs the present position of the specified pulse output.

Revision History

Version	Date	Contents
1.00	2005.2.	Original production

Note

This manual is a reference that explains the function block functions.

It does not explain the operational limitations of Units, components, or combinations of Units and components. Always read and understand the Operation Manuals for the system's Units and other components before using them.