# CARD Read Number of Files: \_CARD101\_ReadFileNum

Basic	Reads the number files in the specified	d directory.				
function	ļ					
Symbol	Start Trigger	_CARD101_ReadFileNum				
		(BOOL) (BOOL)				
	E Busy Flag Directory name (L	N ENO WORD) (BOOL)				
		inName FB_BUSY FB Busy Flag				
		(BOOL) EB Normal End				
		FB_OK —				
		(BOOL) FB_NG — FB Error End				
		(UINT) Number of files				
		FileNum				
<b>P</b> '1						
File name	Lib\FBL\omronlib\PLC\Card\_CARD10					
Applicable models		H Unit version 3.0 or higher H Unit version 3.0 or higher				
models		Unit version 3.0 or higher				
	CX-Programmer Version 5.0 o					
Conditions	CPU Unit Settings					
for usage	PLC Setup: Shared Settings for Con	nmunications Instructions in FBs				
ioi acago	Communications Instruction Responses					
	Number of retries (default: 3)					
	Shared Resources					
	Memory Card					
	Communications ports (internal logical ports)					
	Memory Card Status					
	The Memory Card must be recognized by the CPU Unit.					
	The Memory Card Recognized Flag (A343.15) will be ON when CPU Unit has recognized the Memory					
	Card.					
Function	When the Start Trigger Bit goes ON, th	e function reads the number files in the specified directory.				
description						
FB		accessed when the FB is started, the operation will be performed				
precautions	after the completion of the access.					
		cycles. The FB_BUSY output variable can be used to check whether				
	the FB is being processed.	I for one cycle only offer processing is completed. Use these flags to				
	• FB_OK or FB_NG will be turned ON for one cycle only after processing is completed. Use these flags to detect the end of FB processing.					
	Timing Chart					
	Start Trigger ON					
	OFF					
	FB Busy Flag (FB_BUSY) ON					
	OFF					
	FB Normal End (FB_OK) or FB ON Error End (FB_NG) OFF					
	Read results					
		The value that was read is stored.				
EN input		vardly differentiated condition for the start trigger and the FB_BUSY				
condition Restrictions	output from the FB.	ad condition for EN				
Input	<ul> <li>Always use an upwardly differentiated condition for EN.</li> <li>If the input variables are out of range, the ENO Flag will turn OFF and the FB will not be processed.</li> </ul>					
variables	• If the input variables are out of rang	e, the ENO Flag will turn OFF and the FB will not be processed.				
Output	This EB requires multiple cycles to a	process. Always connect an OR including the FB_BUSY output				
variables	variable to the EN input variable to ensure that the FB is processed to completion (see Symbol).					
	• Do not turn the FB_BUSY output variable ON or OFF outside the FB.					
Other		nnot be detected, the FB_NG Flag will be turned ON.				
		hen the CPU Unit's BUSY indicator (Accessing Memory Card				
	indicator) is lit.					
	Refer to the Related Manuals for oth	ner Memory Card precautions.				

Application example	When Bit A goes ON, the FB reads the number of files in the root directory and outputs the result to D0.          Start Trigger         Bit A						
Related manuals	Precautions when Using a Memory Card There are several precautions that must be observed when using Memory Cards.						
manuais	This manual provides just an overview of the precautions.						
	For details, refer to 5-1 File Memory in the CS/CJ Series Programmable Controllers Programming Manual (W394-E1).						
	1) Format						
	The Memory Card is already formatted when it is shipped, so it is not necessary to format a newly purchased Card.						
	2) Number of Files allowed in Root Directory						
	There is a limit to the number of files that can be stored in the root directory of the Memory Card. The maximum number of files depends on the Memory Card model and format, but it ranges between 128 and 512 files.						
	3) Maximum Number of Overwrites A limit of 100,000 write operations has been set for warranty purposes. For example, if the Memory						
	Card is written to every 10 minutes, over 100,000 write operations will be performed within 2 years.						
	<ol> <li>Turning the Power OFF Never turn OFF the Power Supply when the CPU Unit's BUSY indicator (Accessing Memory Card indicator) is lit.</li> </ol>						
	FINS Error code						
	CS/CJ Series Communications Commands Reference Manual (W342-E1) 5-1 Command Lists 5-1-3 End Codes						
Related FBs	Use the following functions when setting the present date or time as the directory name. FB Get Date in ASCII (_CPU020_MakeAsciiDate) FB Get Time in ASCII (_CPU021_MakeAsciiTime)						

## Variable Tables

input variables					
Name	Variable name	Data type	Default	Range	Description
EN	EN	BOOL			1 (ON): FB started
					0 (OFF): FB not started.

Name	Variable name	Data type	Range	Description
ENO (May be omitted.)	ENO	BOOL		1 (ON): FB processed normally. 0 (OFF): FB not processed or ended in an error.
FB Busy Flag	FB_BUSY	BOOL		Automatically turns OFF when processing is completed.
FB Normal end	FB_OK	BOOL		Turns ON for one cycle when processing ends normally.
FB Error end	FB_NG	BOOL		Turns ON for one cycle when processing ends in an error.
Number of files	FileNum	UINT		Indicates the number of files in the specified directory. Includes the following items: • Volume label • Hidden files • System files • Subdirectories The function does not count the "." that represents the current directory or the "" that represents the next higher directory.

#### Internal Variables

#### Internal variables are not output from the FB.

If the FB\_NG Flag turns ON, the following internal variables can be monitored to obtain information on the error.

Name	Variable name	Data type	Range	Description
FINS error code	FINS_ErrorCode	WORD		The FINS error code is output. A code of #0000 is
				output for a normal end. Refer to the Related Manuals
				for details on the error codes.

### **Typical FINS Error Codes**

Code	Contents	Meaning
#0000	Normal end	
#2301 #2302	No file memory	There is no Memory Card.
#3001	No access right	The right to access the Memory Card is presently held by another device, so the operation cannot be performed.

### **Version 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.