cnc_rdspload

Declaration

#include "fwlib32.h" or "fwlib64.h"

FWLIBAPI short WINAPI cnc_rdspload(unsigned short FlibHndl, short sp_no, ODBSPN *serialspindle);

Description

Reads the load information of the serial spindle. The load information of the serial spindle is stored in "data[0]" of "ODBSPN".

All spindle can be read at a time by specifying ALL_SPINDLES for "sp_no". In that case, an load information of each serial spindle is stored in the data array of ODBSPN.

Arguments

FlibHndl [in]

Specify the library handle. See "Library handle" for details.

sp_no [in]

Specify spindle number to read.

ALL_SPINDLES : for all spindles (ALL_SPINDLES: -1)

1,..,MAX_SPINDLE : for each spindle

- Series 15/15i, 16i/18i/21i, 16i/18i/21i, 0i-A/B/C
  MAX_SPINDLE : 4
- Series 30i, 0i-D/F
  MAX_SPINDLE : 8
- Power Mate i-D
  MAX_SPINDLE : 1

serialspindle [out]

Pointer to the ODBSPN structure including the load information of the serial spindle. The ODBSPN structure is as follows.

```
typedef struct odbspn {
        short   datano;                 /* Spindle number. */
        short   type;                   /* Not used. */
        short   data[MAX_SPINDLE];      /* Spindle data. */
} ODBSPN ;      /* MAX_SPINDLE is maximum number of spindle. */
```

Return

EW_OK is returned on successful completion, otherwise any value except EW_OK is returned.

The major error codes are as follows.

Return code	Meaning/Error handling
EW_NUMBER (3)	data number error The specification of spindle number (sp_no) is illegal.
EW_NOOPT (6)	no option The extended driver/library function is necessary.

As for the other return codes or the details, see "Return status of Data window function"

CNC option

This function need the following CNC option.

- Series 16/18/21, 16i/18i/21i, 0i, 30i, Power Mate i
  The serial spindle function

For HSSB connection,

The extended driver/library function is necessary.

For Ethernet connection,

The Ethernet function and the extended driver/library function are necessary.

However, in case of Series 16i/18i/21i-B, 0i-B/C/D/F, Series 30i and PMi-A, the required CNC option is as follows.

When Embedded Ethernet is used,

above two optional functions are not required.

When Ethernet board is used,

only Ethernet function is required.

CNC parameter

This function is not related to CNC parameter.

CNC mode

This function can be used in any CNC mode.

Available CNC

	0i-A	0i-B/C(Note)	0i-D	0i-F	15	15i	16	18	21	16i-A	18i-A	21i-A	16i-B	18i-B	21i-B	30i-A	30i-B
M (Machining)	H	O	O	O	H	O	H	H	H	O	O	O	O	O	O	O	O
T (Turning)	H	O	O	O	H	-	H	H	H	O	O	O	O	O	O	O	O
LC (Loader)	-	-	-	-	-	-	X	X	X	X	X	X	X	X	X	-	-

	0i-D	0i-F	16i	18i	30i-A	30i-B
P (Punch press)	X	X	O	O	-	X
L (Laser)	-	-	O	-	-	O
W (Wire)	-	-	X	X	X	X

Power Mate i-D	O
Power Mate i-H	X
Power Motion i-A	X

"O" : Both Ethernet and HSSB
"E" : Ethernet
"H" : HSSB
"X" : Cannot be used
"-" : None

Note) 0i-C does not support the HSSB function.