modbus\_write\_and\_read\_registers(3)

==================================

NAME

----

modbus\_write\_and\_read\_registers - write and read many registers in a single transaction

SYNOPSIS

--------

\*int modbus\_write\_and\_read\_registers(modbus\_t \*'ctx', int 'write\_addr', int 'write\_nb', const uint16\_t \*'src', int 'read\_addr', int 'read\_nb', const uint16\_t \*'dest');\*

DESCRIPTION

-----------

The \*modbus\_write\_and\_read\_registers()\* function shall write the content of the

\_write\_nb\_ holding registers from the array 'src' to the address \_write\_addr\_ of

the remote device then shall read the content of the \_read\_nb\_ holding registers

to the address \_read\_addr\_ of the remote device. The result of reading is stored

in \_dest\_ array as word values (16 bits).

You must take care to allocate enough memory to store the results in \_dest\_

(at least \_nb\_ \* sizeof(uint16\_t)).

The function uses the Modbus function code 0x17 (write/read registers).

RETURN VALUE

------------

The function shall return the number of read registers if successful. Otherwise

it shall return -1 and set errno.

ERRORS

------

\*EMBMDATA\*::

Too many registers requested, Too many registers to write

SEE ALSO

--------

linkmb:modbus\_read\_registers[3]

linkmb:modbus\_write\_register[3]

linkmb:modbus\_write\_registers[3]

AUTHORS

-------

The libmodbus documentation was written by Stéphane Raimbault

<stephane.raimbault@gmail.com>