modbus\_reply\_exception(3)

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NAME

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modbus\_reply\_exception - send an exception reponse

SYNOPSIS

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\*int modbus\_reply\_exception(modbus\_t \*'ctx', const uint8\_t \*'req', unsigned int 'exception\_code');

DESCRIPTION

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The \*modbus\_reply\_exception()\* function shall send an exception response based

on the 'exception\_code' in argument.

The libmodbus provides the following exception codes:

\* MODBUS\_EXCEPTION\_ILLEGAL\_FUNCTION (1)

\* MODBUS\_EXCEPTION\_ILLEGAL\_DATA\_ADDRESS (2)

\* MODBUS\_EXCEPTION\_ILLEGAL\_DATA\_VALUE (3)

\* MODBUS\_EXCEPTION\_SLAVE\_OR\_SERVER\_FAILURE (4)

\* MODBUS\_EXCEPTION\_ACKNOWLEDGE (5)

\* MODBUS\_EXCEPTION\_SLAVE\_OR\_SERVER\_BUSY (6)

\* MODBUS\_EXCEPTION\_NEGATIVE\_ACKNOWLEDGE (7)

\* MODBUS\_EXCEPTION\_MEMORY\_PARITY (8)

\* MODBUS\_EXCEPTION\_NOT\_DEFINED (9)

\* MODBUS\_EXCEPTION\_GATEWAY\_PATH (10)

\* MODBUS\_EXCEPTION\_GATEWAY\_TARGET (11)

The initial request \_req\_ is required to build a valid response.

RETURN VALUE

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The function shall return the length of the response sent if

successful. Otherwise it shall return -1 and set errno.

ERRORS

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\*EINVAL\*::

The exception code is invalid

SEE ALSO

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linkmb:modbus\_reply[3]

linkmb:libmodbus[7]

AUTHORS

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