modbus\_tcp\_listen(3)

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NAME

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modbus\_tcp\_listen - create and listen a TCP Modbus socket (IPv4)

SYNOPSIS

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\*int modbus\_tcp\_listen(modbus\_t \*'ctx', int 'nb\_connection');\*

DESCRIPTION

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The \*modbus\_tcp\_listen()\* function shall create a socket and listen to maximum

\_nb\_connection\_ incoming connections on the specified IP address. The context

\_ctx \_must be allocated and initialized with linkmb:modbus\_new\_tcp[3] before to

set the IP address to listen, if IP address is set to NULL, any addresses will be

listen.

RETURN VALUE

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The function shall return a new socket if successful. Otherwise it shall return

-1 and set errno.

EXAMPLE

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For detailed examples, see source files in tests directory:

- unit-test-server.c, simple but handle only one connection

- bandwidth-server-many-up.c, handles several connections at once

[source,c]

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...

/\* To listen any addresses on port 502 \*/

ctx = modbus\_new\_tcp(NULL, 502);

/\* Handle until 10 established connections \*/

server\_socket = modbus\_tcp\_listen(ctx, 10);

/\* Clear the reference set of socket \*/

FD\_ZERO(&refset);

/\* Add the server socket \*/

FD\_SET(server\_socket, &refset);

if (select(server\_socket + 1, &refset, NULL, NULL, NULL) == -1) {

}

...

close(server\_socket);

modbus\_free(ctx);

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SEE ALSO

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linkmb:modbus\_new\_tcp[3]

linkmb:modbus\_tcp\_accept[3]

linkmb:modbus\_tcp\_pi\_listen[3]

AUTHORS

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