modbus\_new\_tcp\_pi(3)

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NAME

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modbus\_new\_tcp\_pi - create a libmodbus context for TCP Protocol Independent

SYNOPSIS

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\*modbus\_t \*modbus\_new\_tcp\_pi(const char \*'node', const char \*'service');\*

DESCRIPTION

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The \*modbus\_new\_tcp\_pi()\* function shall allocate and initialize a modbus\_t

structure to communicate with a Modbus TCP IPv4 or IPv6 server.

The \_node\_ argument specifies the host name or IP address of the host to connect

to, eg. "192.168.0.5" , "::1" or "server.com". A NULL value can be used to

listen any addresses in server mode.

The \_service\_ argument is the service name/port number to connect to. To use the

default Modbus port use the string "502". On many Unix systems, it’s

convenient to use a port number greater than or equal to 1024 because it’s not

necessary to have administrator privileges.

RETURN VALUE

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The function shall return a pointer to a \*modbus\_t\* structure if

successful. Otherwise it shall return NULL and set errno to one of the values

defined below.

ERRORS

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\*EINVAL\*::

The node string is empty or has been truncated. The service string is empty or

has been truncated.

EXAMPLE

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[source,c]

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modbus\_t \*ctx;

ctx = modbus\_new\_tcp\_pi("::1", "1502");

if (ctx == NULL) {

fprintf(stderr, "Unable to allocate libmodbus context\n");

return -1;

}

if (modbus\_connect(ctx) == -1) {

fprintf(stderr, "Connection failed: %s\n", modbus\_strerror(errno));

modbus\_free(ctx);

return -1;

}

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SEE ALSO

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linkmb:modbus\_new\_tcp[3]

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

linkmb:modbus\_free[3]

AUTHORS

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