### uIP address management

### uip\_ipaddr\_t addr;

Representation of an IP address (or mask).

**uIP configuration functions**

The uIP configuration functions are used for setting run-time parameters in uIP such as IP addresses.

|  |  |
| --- | --- |
| **Defines** | |
| #define | [**uip\_sethostaddr**](http://contiki.sourceforge.net/docs/2.6/a01697.html#ga12b467f314489259dd718228d0827a51)(addr) |
|  | Set the IP address of this host. |
| #define | [**uip\_gethostaddr**](http://contiki.sourceforge.net/docs/2.6/a01697.html#ga20bc87e5c063c3f4b01547be6e5a0148)(addr) |
|  | Get the IP address of this host. |
| #define | [**uip\_setnetmask**](http://contiki.sourceforge.net/docs/2.6/a01697.html#gaeb79c914cf137e6d27fd7583e5a66679)(addr) |
|  | Set the netmask. |
| #define | [**uip\_getnetmask**](http://contiki.sourceforge.net/docs/2.6/a01697.html#ga5323320b7316647042016f17c4e881be)(addr) |
|  | Get the netmask. |

Dettagli disponibili alla pagina:

<http://contiki.sourceforge.net/docs/2.6/a01697.html>

**uIP conversion functions**

These functions can be used for converting between different data formats used by uIP. [More...](http://dak664.github.io/contiki-doxygen/a01576.html#_details)

|  |  |
| --- | --- |
| **Defines** | |
| #define | [**uip\_ipaddr\_to\_quad**](http://dak664.github.io/contiki-doxygen/a01576.html#gab6ae63b3e36da2ea6598ea91ad049516)(a) |
|  | Convert an IP address to four bytes separated by commas. |
| #define | [**uip\_ipaddr**](http://dak664.github.io/contiki-doxygen/a01576.html#ga87f0b54ade0d159fba495089128a4932)(addr, addr0, addr1, addr2, addr3) |
|  | Construct an IP address from four bytes. |
| #define | [**uip\_ipaddr\_copy**](http://dak664.github.io/contiki-doxygen/a01576.html#ga769512993b7b27271909d6daa4748b60)(dest, src)   (\*(dest) = \*(src)) |
|  | Copy an IP address to another IP address. |
| #define | [**uip\_ipaddr\_cmp**](http://dak664.github.io/contiki-doxygen/a01576.html#ga210e629f7252e4bc8458cbdf260b3318)(addr1, addr2) |
|  | Compare two IP addresses. |
| #define | [**uip\_ipaddr\_maskcmp**](http://dak664.github.io/contiki-doxygen/a01576.html#ga6b16e0bac41821c1fbe0c267071642f0)(addr1, addr2, mask) |
|  | Compare two IP addresses with netmasks. |
| #define | [**uip\_ipaddr\_mask**](http://dak664.github.io/contiki-doxygen/a01576.html#ga969d7fff37a979737da045e0d538a9bd)(dest, src, mask) |
|  | Check if an address is a broadcast address for a network. |
| #define | [**uip\_ipaddr1**](http://dak664.github.io/contiki-doxygen/a01576.html#ga22fa0681cd463191d7a01fe85d86996f)(addr) |
|  | Pick the first octet of an IP address. |
| #define | [**uip\_ipaddr2**](http://dak664.github.io/contiki-doxygen/a01576.html#gaffcd2fbe181e2aaefbf970551c302af5)(addr) |
|  | Pick the second octet of an IP address. |
| #define | [**uip\_ipaddr3**](http://dak664.github.io/contiki-doxygen/a01576.html#gae23534479ead15af8ff08ace26a47fb5)(addr) |
|  | Pick the third octet of an IP address. |
| #define | [**uip\_ipaddr4**](http://dak664.github.io/contiki-doxygen/a01576.html#ga165b603ec150e26efec7be199c9c2901)(addr) |
|  | Pick the fourth octet of an IP address. |
| #define | [**UIP\_HTONS**](http://dak664.github.io/contiki-doxygen/a01576.html#ga703ee949a28cb00b5f8ee54bfe664e8d)(n) |
|  | Convert 16-bit quantity from host byte order to network byte order. |

Dettagli disponibili alla pagina:

<http://contiki.sourceforge.net/docs/2.6/a01701.html>