

ost::IPV6Cidr(3)

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**NAME**

ost::IPV6Cidr –

The CIDR class is used to support routing tables and validate address policies.

**SYNOPSIS**

#include &lt;address.h&gt;

**Public Member Functions**

```
struct in6_addr getNetwork (void) const
    Get network address associated with this cidr.
struct in6_addr getNetmask (void) const
    Get network mask associated with this cidr.
struct in6_addr getBroadcast (void) const
    Compute the broadcast address associated with this cidr.
void set (const char *cidr)
    Set the cidr from a full or partial hostname, or from a host/bits specification.
IPV6Cidr (const char *cidr)
    Construct a new cidr from a string.
IPV6Cidr ()
    Construct an empty cidr.
IPV6Cidr (IPV6Cidr &)
    Construct a copy of a cidr.
bool isMember (const struct sockaddr *saddr) const
    See if a socket address is a member of this cidr's network.
bool isMember (const struct in6_addr &inaddr) const
    See if a low level address object is a member of this cidr's net.
bool operator== (const struct sockaddr *sa) const
bool operator== (const struct in6_addr &a) const
```

**Protected Member Functions**unsigned **getMask** (const char \*cp) const**Protected Attributes**struct in6\_addr netmask **network****Detailed Description**

The CIDR class is used to support routing tables and validate address policies.

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**Constructor & Destructor Documentation****ost::IPV6Cidr::IPV6Cidr (const char \* cidr)**Construct a new cidr from a string. **Parameters:**  
*cidr* string to use.**ost::IPV6Cidr::IPV6Cidr ()**

Construct an empty cidr.

**ost::IPV6Cidr::IPV6Cidr (IPV6Cidr &)**Construct a copy of a cidr. **Parameters:**  
*cidr* to copy from.**Member Function Documentation****struct in6\_addr ost::IPV6Cidr::getBroadcast (void) const [read]**Compute the broadcast address associated with this cidr. **Returns:**  
system binary coded network address.**unsigned ost::IPV6Cidr::getMask (const char \* cp) const [protected]****struct in6\_addr ost::IPV6Cidr::getNetmask (void) const [inline, read]**Get network mask associated with this cidr. **Returns:**  
system binary coded network mask.

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**struct in6\_addr ost::IPV6Cidr::getNetwork (void) const [inline, read]**

Get network address associated with this cidr. **Returns:**  
system binary coded address.

**bool ost::IPV6Cidr::isMember (const struct in6\_addr & inaddr) const**

See if a low level address object is a member of this cidr's net. **Parameters:**  
*inaddr* object to test.

**Returns:**

true if member of cidr.

**bool ost::IPV6Cidr::isMember (const struct sockaddr \* saddr) const**

See if a socket address is a member of this cidr's network. **Parameters:**  
*saddr* pointer to test.

**Returns:**

true if member of cidr.

**bool ost::IPV6Cidr::operator== (const struct in6\_addr & a) const [inline]****bool ost::IPV6Cidr::operator== (const struct sockaddr \* sa) const [inline]****void ost::IPV6Cidr::set (const char \* cidr)**

Set the cidr from a full or partial hostname, or from a host/bits specification. **Parameters:**  
*cidr* string to use.

## Member Data Documentation

**struct in6\_addr netmask ost::IPV6Cidr::network [protected]**

## Author

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