

# NXPort

<b>Inherits From:</b>	NXInvalidationNotifier : Object
<b>Conforms To:</b>	NXReference (through NXInvalidationNotifier) NXTransport (Distributed Objects)
<b>Declared In:</b>	machkit/NXPort.h

## Class Description

The NXPort class provides an object-oriented interface to Mach ports. NXPort objects are used by the Distributed Objects system whenever a Mach port is needed.

## Instance Variables

port\_t **machPort**;

machPort	The Mach port managed by the NXPort
----------	-------------------------------------

## Adopted Protocols

NXReference	– addReference – free – references
NXTransport	– encodeRemotelyFor:freeAfterEncoding:isBycopy: – encodeUsing: – decodeUsing:

## Method Types

Creating an NXPort	+ new + newFromMachPort: + newFromMachPort:dealloc:
Freeing an NXPort	– free
Listening for port deaths	+ worryAboutPortInvalidation
Getting the Mach port	– machPort
Hash-table value for the port	– hash

## Class Methods

### **new**

+ **new**

Creates and returns a new NXPort instance. This method allocates a new Mach port that will be deallocated when the instance is freed.

**See also:** + **newFromMachPort:**, + **newFromMachPort:dealloc:**

### **newFromMachPort:**

+ **newFromMachPort:**(port\_t)*port*

Creates and returns a new NXPort instance that wraps an existing port specified by *port*. *port* will not be deallocated when the instance is freed.

**See also:** + **new**, + **newFromMachPort:dealloc:**

### **newFromMachPort:dealloc:**

+ **newFromMachPort:**(port\_t)*port* **dealloc:**(BOOL)*flag*

Creates and returns a new NXPort instance that wraps an existing port specified by *port*. If *flag* is YES, *port* will be deallocated when the instance is freed; otherwise, it won't be deallocated.

**See also:** + **new**, + **newFromMachPort:**

## worryAboutPortInvalidation

+ **worryAboutPortInvalidation**

Forks a thread to listen for port deaths; this thread sleeps until a port dies. If a port death occurs, any objects registered for invalidation notification receive a **senderIsInvalid:** message. This is generally only useful in applications that don't use the Application Kit.

**See also:** – **senderIsInvalid:** (NXSenderIsInvalid protocol)

## Instance Methods

### free

– **free**

Decrements the receiver's reference count, returning **self** if the reference count remains greater than 0. If the reference count becomes 0, this method deallocates the receiver's storage and returns **nil**.

**See also:** NXReference protocol

### hash

– (unsigned int)**hash**

Returns a hash-table index for the NXPort. This isn't generally useful.

### machPort

– (port\_t)**machPort**

Returns the NXPort's Mach port. This can be useful if you need to pass the port to routines that deal with Mach ports rather than NXPorts.