

ost::Pointer(3)

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NAME

ost::Pointer –

Used to create and manage referece counted pointers.

SYNOPSIS

#include <pointer.h>

Public Member Functions**Pointer** (T *ptr=NULL)**Pointer** (const **Pointer**< T > &ref)virtual ~**Pointer** ()**Pointer** & **operator**= (const **Pointer**< T > &ref)T & **operator*** () constT * **getObject** () constT * **operator**-> () constbool **operator**! () constint **operator**++ () constint **operator**-- () const**Protected Member Functions**void **ptrDetach** (void)**Protected Attributes**unsigned * **ptrCount**T * **ptrObject****Detailed Description****template<class T> class ost::Pointer< T >**

Used to create and manage referece counted pointers.

Author:

David Sugar <dyfet AT gnutelphony DOT org> reference counted pointer template.

Constructor & Destructor Documentation**template<class T> ost::Pointer< T >::Pointer** (T * ptr = NULL) [inline, explicit]

References ost::Pointer< T >::ptrCount.

template<class T> ost::Pointer< T >::Pointer (const **Pointer**< T > & ref) [inline]

References ost::Pointer< T >::ptrCount, and ost::Pointer< T >::ptrObject.

template<class T> virtual ost::Pointer< T >::~~Pointer () [inline, virtual]

References ost::Pointer< T >::ptrDetach().

Member Function Documentation**template<class T> T* ost::Pointer< T >::getObject** (void) const [inline]

References ost::Pointer< T >::ptrObject.

template<class T> bool ost::Pointer< T >::operator! (void) const [inline]

References ost::Pointer< T >::ptrCount.

template<class T> T& ost::Pointer< T >::operator* () const [inline]

References ost::Pointer< T >::ptrObject.

template<class T> int ost::Pointer< T >::operator++ (void) const [inline]**template<class T> int ost::Pointer< T >::operator--** (void) const [inline]

References ost::Pointer< T >::ptrCount.

template<class T> T* ost::Pointer< T >::operator-> () const [inline]

References ost::Pointer< T >::ptrObject.

template<class T> **Pointer& ost::Pointer< T >::operator=** (const **Pointer**< T > & ref) [inline]

References ost::Pointer< T >::ptrCount, ost::Pointer< T >::ptrDetach(), and ost::Pointer< T >::ptrObject.



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template<class T> void ost::Pointer< T >::ptrDetach (void) [inline, protected]

References ost::Pointer< T >::ptrCount, and ost::Pointer< T >::ptrObject.

Referenced by ost::Pointer< T >::operator=(), and ost::Pointer< T >::~~Pointer().

Member Data Documentation

template<class T> unsigned* ost::Pointer< T >::ptrCount [protected]

Referenced by ost::Pointer< T >::operator!(), ost::Pointer< T >::operator--(), ost::Pointer< T >::operator=(), ost::Pointer< T >::Pointer(), and ost::Pointer< T >::ptrDetach().

template<class T> T* ost::Pointer< T >::ptrObject [protected]

Referenced by ost::Pointer< T >::getObject(), ost::Pointer< T >::operator*(), ost::Pointer< T >::operator->(), ost::Pointer< T >::operator=(), ost::Pointer< T >::Pointer(), and ost::Pointer< T >::ptrDetach().

Author

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