

# Functions

## Comparator Functions

Compare two sets of data as arrays of various types and return their ordering

int	<b>IXCompareBytes</b> (const void <i>*data1</i> , unsigned short <i>length1</i> , const void <i>*data2</i> , unsigned short <i>length2</i> , const void <i>*context</i> )
int	<b>IXCompareUnsignedBytes</b> (const void <i>*data1</i> , unsigned short <i>length1</i> , const void <i>*data2</i> , unsigned short <i>length2</i> , const void <i>*context</i> )
int	<b>IXCompareShorts</b> (const void <i>*data1</i> , unsigned short <i>length1</i> , const void <i>*data2</i> , unsigned short <i>length2</i> , const void <i>*context</i> )
int	<b>IXCompareUnsignedShorts</b> (const void <i>*data1</i> , unsigned short <i>length1</i> , const void <i>*data2</i> , unsigned short <i>length2</i> , const void <i>*context</i> )
int	<b>IXCompareLongs</b> (const void <i>*data1</i> , unsigned short <i>length1</i> , const void <i>*data2</i> , unsigned short <i>length2</i> , const void <i>*context</i> )
int	<b>IXCompareUnsignedLongs</b> (const void <i>*data1</i> , unsigned short <i>length1</i> , const void <i>*data2</i> , unsigned short <i>length2</i> , const void <i>*context</i> )
int	<b>IXCompareFloats</b> (const void <i>*data1</i> , unsigned short <i>length1</i> , const void <i>*data2</i> , unsigned short <i>length2</i> , const void <i>*context</i> )
int	<b>IXCompareDoubles</b> (const void <i>*data1</i> , unsigned short <i>length1</i> , const void <i>*data2</i> , unsigned short <i>length2</i> , const void <i>*context</i> )
int	<b>IXCompareShort</b> (const void <i>*data1</i> , unsigned short <i>length1</i> , const void <i>*data2</i> , unsigned short <i>length2</i> , const void <i>*context</i> )
int	<b>IXCompareUnsignedShort</b> (const void <i>*data1</i> , unsigned short <i>length1</i> , const void <i>*data2</i> , unsigned short <i>length2</i> , const void <i>*context</i> )
int	<b>IXCompareLong</b> (const void <i>*data1</i> , unsigned short <i>length1</i> , const void <i>*data2</i> , unsigned short <i>length2</i> , const void <i>*context</i> )
int	<b>IXCompareUnsignedLong</b> (const void <i>*data1</i> , unsigned short <i>length1</i> , const void <i>*data2</i> , unsigned short <i>length2</i> , const void <i>*context</i> )
int	<b>IXCompareFloat</b> (const void <i>*data1</i> , unsigned short <i>length1</i> , const void <i>*data2</i> , unsigned short <i>length2</i> , const void <i>*context</i> )
int	<b>IXCompareDouble</b> (const void <i>*data1</i> , unsigned short <i>length1</i> , const void <i>*data2</i> , unsigned short <i>length2</i> , const void <i>*context</i> )
int	<b>IXCompareStringAndUnsigneds</b> (const void <i>*data1</i> , unsigned short <i>length1</i> , const void <i>*data2</i> , unsigned short <i>length2</i> , const void <i>*context</i> )
int	<b>IXCompareUnsignedAndStrings</b> (const void <i>*data1</i> , unsigned short <i>length1</i> , const void <i>*data2</i> , unsigned short <i>length2</i> , const void <i>*context</i> )
int	<b>IXCompareStrings</b> (const void <i>*data1</i> , unsigned short <i>length1</i> , const void <i>*data2</i> , unsigned short <i>length2</i> , const void <i>*context</i> )
int	<b>IXCompareMonocaseStrings</b> (const void <i>*data1</i> , unsigned short <i>length1</i> , const void <i>*data2</i> , unsigned short <i>length2</i> , const void <i>*context</i> )

## Comparison Format Functions

Compare two arrays of data based on a type encoding and return their ordering

int **IXFormatComparator**(const void *\*data1*, unsigned short *length1*, const void *\*data2*, unsigned short *length2*, void *\*format*)

## IXBTree Locking Macros

**Lock and unlock an IXBTree for thread-safe access**

void **IXLockBTreeMutex**(*IXBTree \*aBTree*)  
void **IXUnlockBTreeMutex**(*IXBTree \*aBTree*)

## IXStoreBlock Archiving Functions

**Archive or unarchive an object to or from an IXStore**

unsigned int **IXWriteRootObjectToStore**(*IXStore \*aStore*, unsigned int *aHandle*, id *anObject*)  
id **IXReadObjectFromStore**(*IXStore \*aStore*, unsigned int *aHandle*, NXZone *\*aZone*)