

Defined Types

IXComparator

DECLARED IN btree/protocols.h

SYNOPSIS

typedef int **IXComparator**
(const void **data1*,
unsigned short *length1*,
const void **data2*,
unsigned short *length2*,
const void **context*);

DESCRIPTION The standard comparator function type. Used by IXBTree and other classes to check the functions they use to perform key comparisons.

IXPosting

DECLARED IN btree/protocols.h

SYNOPSIS

typedef struct IXPosting {
 unsigned **handle**;
 unsigned **weight**;
} **IXPosting**;

DESCRIPTION Used by classes such as IXPostingCursor to store a weighted reference. **handle** is the identifier, and **weight** is a value associated with the posting; though it's usually a rank of weight or importance, it can also be used to store other information, such as a hint.

IXStoreErrorType

SYNOPSIS

typedef enum IXStoreErrorType {
 IX_NoError = IX_STOREUSERERRORBASE,
 IX_InternalError,
 IX_ArgumentError,
 IX_QueryEvalError,
 IX_QueryTypeError,
 IX_QueryAttrError,
 IX_QueryImplError,
 IX_QueryYaccError,
 IX_MemoryError,
 IX_LockedError,
 IX_MachineError,
 IX_VersionError,
 IX_DamagedError,

```
IX_DuplicateError,  
IX_NotFoundError,  
IX_TooLargeError,  
IX_UnixErrorBase = IX_STOREUNIXERRBASE,  
IX_MachErrorBase = IX_STOREMACHERRBASE,  
} IXStoreErrorType;
```

DESCRIPTION Used to specify exception codes in the Indexing Kit. Where an exception can occur in a method, the method description details the meaning of the exception codes as they relate to that method. Here are their general meanings:

IX_NoError	No error
IX_InternalError	An error in the Indexing Kit's implementation
IX_ArgumentError	An invalid argument was passed to a routine
IX_QueryEvalError	A query was ill-formed or couldn't be evaluated
IX_QueryTypeError	A query contained an invalid type binding
IX_QueryAttrError	A query contained an invalid attribute reference
IX_QueryImplError	An error or missing feature in query evaluation
IX_QueryYaccError	A query was grammatically incorrect
IX_MemoryError	Insufficient memory available
IX_LockedError	The requested file or block handle is locked
IX_MachineError	The target store has an incompatible format
IX_VersionError	The target store is of an incompatible version
IX_DamagedError	The target store is damaged
IX_DuplicateError	An entry with the same identifier already exists
IX_NotFoundError	The entry couldn't be found
IX_TooLargeError	A value was too large, usually an IXBTree key
IX_UnixErrorBase	Unix errno added to this base value
IX_MachErrorBase	Mach kern_return added to this base value

IXWeightingType

DECLARED IN indexing/IXAttributeParser.h

```
SYNOPSIS typedef enum {  
IX_NoWeighting = 0,  
IX_AbsoluteWeighting,  
IX_FrequencyWeighting,  
IX_PeculiarityWeighting  
} IXWeightingType;
```

DESCRIPTION Used to define weighting strategies for IXAttributeParser. IX_NoWeighting means all tokens have a weight of 0. IX_AbsoluteWeighting means the weight of each token is its count in the sample. IX_FrequencyWeighting gives the weight of a token by dividing its count in the sample by the total number of tokens in the sample. IX_PeculiarityWeighting is frequency weighting with regard to some reference domain; a token's weight is the square root of its frequency within its sample divided by its frequency within the larger domain. IX_PeculiarityWeighting is used to filter out domain specific noise; for example, the word "computer" in a set of documentation about computers isn't very relevant to a search, because it's assumed to occur quite often, but the word "grill" would probably be very unusual for such a topic.

Symbolic Constants

IXStore Constants

DECLARED IN `store/protocols.h`

SYNOPSIS **IX_ALLBLOCKS**

DESCRIPTION	Used as a convenience value for freeing or closing all blocks in an IXStore or IXStoreFile; for example, sending closeBlock: with IX_ALLBLOCKS as the argument will result in all blocks opened by the receiving IXStore being closed.
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Note: This is currently unimplemented; using IX_ALLBLOCKS does nothing at this time.

Indexing Kit Error Base Constants

SYNOPSIS IX_STOREUSERERRBASE
 IX_STOREMACHERRBASE
 IX_STOREUNIXERRBASE

DESCRIPTION	Used as base values for the defined type IXStoreErrorType.
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Global Variables

IXStore Pasteboard Type

DECLARED IN `store/protocols.h`

SYNOPSIS

DESCRIPTION	IXStorePboardType is the Pasteboard type for the entire contents of an IXStore, as used by IXStore's getContents:andLength: and setContents:andLength: methods.
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Indexing Pasteboard Types

DECLARED IN `indexing/IXAttributeParser.h`

SYNOPSIS `NXAtom IXAttributeReaderPboardType;`
`NXAtom IXFileDescriptionPboardType;`

DESCRIPTION	IXAttributeReaderPboardType indicates text in Attribute Reader Format. IXFileDescriptionPboardType indicates a file's description as generated by an IXFileFinder; a file description is usually generated by a filter service.
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