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 ªcomputerº 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 ªgrillº 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.

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.

Global Variables

IXStore Pasteboard Type

DECLARED IN store/protocols.h

SYNOPSIS NXAtom **IXStorePboardType**;

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

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.