[The current version of this file can be found at
"//depot/projects/eudora2/docs/mailstore.txt"]

A mailbox is simply a collection of messages, with some additional data. It caches information
about the messages, in order to display then more quickly.
The idea is that a mailbox can be displayed without reading any of the messages contained in
the mailbox.

Kept with each Message:
    MessageID   -- needed to find the message
    Selected   -- boolean
    Cached from the messages:
        Subject
        Sender (or recipent for sent messages)
        Date
        Label
        Status
        Priority
        Junk Score
        Message Size (in bytes)
        Attachment count
        (a few other bits of information)

Data kept in the mailbox:
    Window Position
    Scroll Position
    Sort Criteria
    Position/size of preview pane.
    For "virtual" mailboxes, the search criteria for the mailbox.
    Whatever else we (or plugins) need
        -- This is extensible, because it will be stored in a collection.

Each mailbox has a unique (in the mailstore) integer ID. These are picked at random, and are
used (with the mailbox name as backup) as a way to locate a mailbox. (In a similar manner that
message-IDs are used to identify messages).

The basic interface for a mailbox is a boost::shared_ptr<Mailbox>, which is a reference-counted
shared pointer. There will only be one "Maibox" object per mailbox. You get a pointer to a
mailbox from the mailstore, asking by mailbox-ID

A mailbox is stored on disk as an XML file.
The XML contains the following sections:
    Mailbox version, name, and ID
    Collection info
    An array of messages

Operations on a mailbox:
[The header file for these operations can be found at
"//depot/projects/eudora2/common/include/mailstore.txt"]

    Get/Set cached message attributes
    Get/Set mailbox data
    Read/Save from disk
    Get/Set/Add/Delete collection items.

Update the cached values for a message from the message (in case the user changes something in another mailbox, say).

Add a message to a mailbox.

Remove a message from a mailbox.

Change the sort criteria for a mailbox – note that sorting a mailbox reorders the messages in the mailbox; it's not just a display attribute; but this is a (relatively) cheap operation because we're not moving around message contents, just the cached information.