

Morpho - Bug #401

Morpho Problems with Very Large Data Files

01/23/2002 08:32 AM - Dan Higgins

Status:	Resolved	Start date:	01/23/2002
Priority:	Normal	Due date:	
Assignee:	Dan Higgins	% Done:	0%
Category:	morpho - general	Estimated time:	0.00 hour
Target version:	1.1	Spent time:	0.00 hour
Bugzilla-Id:	401		
Description			
<p>One of the REOT students tried submitting a very large (360,000 lines) data file and discovered that Morpho 'hangs' in trying to work with the file (i.e. in going from one screen to the next in the Package wizard.</p> <p>It looks like the problem is due to code which copies the data file to a string (i.e. an in-memory data structure)</p>			

History

#1 - 01/24/2002 01:47 PM - Dan Higgins

Previously, the FileSystemDataStore class handled data files just like xml metadata files. Data files were thus copied to a string for insertion of ids and an exception used to detect that the data file was not a known type of eml doc. This resulted in multimegabyte strings in memory when the data files were very large (i.e. multimegabytes). This would cause out-of-memeory errors. Also, the streams in the FileSystemDataStore were not buffered, making the reading/writing very slow.

To fix the problem, all streams were buffered. This gives about a factor of 20 speed increase. In addition, new methods were added to handle data files explicitly and avoid making 'in-memory' copies.

#2 - 03/27/2013 02:14 PM - Redmine Admin

Original Bugzilla ID was 401