Kepler - Bug #3274

IPCC_Base_Layers.xml work-flow gets out of memeory error

05/05/2008 12:18 PM - Jing Tao

Status:	Resolved	**Start date:**	05/05/2008
Priority:	Normal	**Due date:**	
Assignee:	Jing Tao	**% Done:**	0%
Category:	data access	**Estimated time:**	0.00 hour
Target version:	1.0.0	**Spent time:**	0.00 hour
Bugzilla-Id:	3274		

Description

When this work-flow tried to download 10 big data files, it can finish part of downloading - maybe 6 and the rest 4 will keep busy.
From log message, we can find something like:
Exception in thread "Data ecogrid://knb/IPCC.200735416582829.1" java.lang.OutOfMemoryError: Java heap space
Exception in thread "Data ecogrid://knb/IPCC.200735416192871.1" java.lang.OutOfMemoryError: Java heap space
Exception in thread "Data ecogrid://knb/IPCC.200735417143125.1" java.lang.OutOfMemoryError: Java heap space
Exception in thread "Data ecogrid://knb/IPCC.200735416271261.1" java.lang.OutOfMemoryError: Java heap space

When I increase the heap size of Kepler to 1.2G (current value is 5M), the downloading can be done without any problem.

I went to through the downloading code again, it seems to me we use input and out stream, so not sure why it uses so many memory.

If it is possible we can remove this work-flow from this release?

History

#1 - 05/05/2008 12:35 PM - Dan Higgins

Previously this workflow worked OK (during training in Jan 2008) so heap space usage would appear to be a 'new' problem !

#2 - 05/05/2008 12:47 PM - Dan Higgins

heap size was 512M, not 5M; so I hope that is a typo in comment #1

#3 - 05/05/2008 01:01 PM - Jing Tao

5M is a typo :)

#4 - 05/05/2008 05:19 PM - Jing Tao

At end of January 2008, the src/org/ecoinformatics/ecogrid/queryservice/QueryServiceGetToStreamClient.java class somehow was modified - "_call.setStreaming(true);" were commented to fixed some issue. So our get client didn't stream data, did put data into memory.

Restoring this line doesn't seem to generate any issue, but helps kepler to fix this bug.

Ben checked a new version of org.ecoinformatics.ecogrid.AuthenticatedQueryService-stub.jar and I checked a new version of org.ecoinformatics.ecogrid.QueryService-stub.jar into kepler.

With the new jar file, both derik and i tested the work flow and the downloading worked. The bug seems to be fixed.

#5 - 03/27/2013 02:22 PM - Redmine Admin

Original Bugzilla ID was 3274