* * * Please read through the whole memo first * * *

Dear System Tester,

In preparation of the geWorkbench 1.7.0 release, a few system tests have to be performed by each of you.

Before you perform any system test, do the following three steps:

1. Check out the release branch/tag geworkbench_1_7_0 from CVS into a new directory.

2. Change to the new directory and run "ant createDist". This step will create a folder named "cleanFolder" at the same level as the directory where the CVS code was extracted into. It will put into cleanFolder a new (simple) build.xml designed for running the application in test mode. Only the all_release.xml configuration file will be included in cleanFolder/conf/. In case of doubt perform "ant clean" before the "ant createDist" (see *Important Notes* below for a comment on "ant clean").

3. Change directory to …\cleanFolder and start the application there by running "ant run".

All system tests can be found under https://sharepoint.cu-genome.org/c2b2/Testing/Forms/AllItems.aspx in the folder version1.7.0. The accompanying data files are generally in the same directory as the corresponding system test. Important exception to this rule: if you need the latest Affymetrix annotation file for your system test (HG_U95Av2.na28.annot.csv), you will find it in the directory version1.7.0/regression testing/testAll-data/HG_U95Av2.na28.annot.csv. Please make sure that you select the one with the number "**28**".

Procedure

If this is your first time as a system tester, you might want to read through the following site for information on how to proceed in general for a system test: http://wiki.c2b2.columbia.edu/informatics/index.php/System_tests

However, this site is not up-to-date with regard to the "systemTests.dot" file. Therefore, please follow these condensed instructions (Thanks to Michael Honig):

1. If you do not currently have the MySQL ODBC 3.51 driver, then download it here at http://dev.mysql.com/get/Downloads/Connector-ODBC/3.51/mysql-connector-odbc-3.51.27-win32.msi/from/pick?file=Downloads/Connector-ODBC/3.51/mysql-connector-odbc-3.51.27-win32.msi&mirror=pick . This will be necessary to enable the Word Visual Basic macro to communicate with the MySQL database. It should be put into the right place if you download the ".msi".

2. Create a directory called **c:\workbench** on your pc. It ***MUST*** be called "workbench" and it ***MUST*** be located directly underneath the c:\ drive

3. Copy the "systemTests.dot.new" file from https://sharepoint.cu-genome.org/c2b2/Testing/Forms/AllItems.aspx to your local c:\workbench directory: right-click on "systemTests.dot.new" --> "Save target as" and give it the new name "systemTests.dot". You ***MUST*** rename it to "systemTests.dot", i.e. ***without*** the suffix "**.new**".

4. Copy all system tests that you will perform to your local c:\workbench directory.

5. Open one of the system tests and go to "Tools" menu -> Macro -> Security. If not selected, click on the "Medium" radio button and then close out of and reopen the Word doc for the changes to take effect. If you are prompted to "Enable Macros", then do so.

6. If all is fine, you should see a "WB" toolbar button (in blue and pink) towards the top-right of the screen. If you don't see it, you have to activate the tool-bar to show the button that executes the script: within the tool-bar section of a system test MS Word document right click and select "System Tests" (last entry in list). This is how the "WB" button looks like:
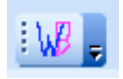
7. Complete the system test and make any changes that are necessary, such as changing "PASS" to "FAIL". After you've completed the test, save your changes and click on the "WB" toolbar button to commit your changes to the database. You will be prompted to confirm the operating system, the final test status, and will get a final message stating that everything should have worked.

8. A new file will appear in c:\workbench containing the original system test name, your username, and the current date concatenated together. Example: "CNKB V2.0.doc_mhonig_06-30-2009.doc". This is basically a back-up file ONLY.

9. To confirm your changes in the database:
   ➢ visit http://afdev/systemtest/BrowseLogs.php (or try http://afdev.cgc.cpmc.columbia.edu/systemtest/BrowseLogs.php)
   ➢ select "geWorkbench1.7.0" from drop-down and then click on "Search By Project" button
   ➢ Find your new record and confirm the changes made.
   ➢ If you want to make additional changes or associate a Mantis bug with the new system test record, click on the "Edit" link. You may also download the most recent copy of the Word document under the "File" heading.

Bug reporting

1) If a script fails and you believe it is a defect in geWorkbench, please check if the defect is already described in Mantis:
   ➢ if not in Mantis, file a new bug in Mantis
   ➢ enter the bug number in the status page for the system tests (http://afdev/systemtest/BrowseLogs.php)
2) If a script fails and you believe it is a defect in the system test, please send an e-mail to me (ut2102@columbia.edu). I will then investigate and either update the system test or let you know if it is a real bug.

Important Notes

1) I have tested all system tests with all components selected and all can be run. However, be aware, that one or another component dependency might have been missed in the current system test and/or in the Component Configuration Manager (in the beginning of each system test you're asked to select components). Hence it is important for the proper implementation of the Component Configuration Manager, that you start a system test with only the default components loaded. In order to guarantee this, it is probably best to delete the "cleanFolder" after a system test and use "ant createDist" for a following system test.

2) Reminder for exceptions: Please ignore the exceptions generated at the launch of geWorkbench. They're known issues.

3) Please complete ALL your assignments by the end of workday: Tuesday, 07. July 2009.

Questions or Problems

In order for me to help you on specific questions you might have you need to come to me as soon as possible. If you have a problem with the procedure, you may also ask Michael or Kiran.

Assignments

#	System test	Assigned tester	Location on sharepoint under /testing/version 1.7.0/
1	2 channel genepix filter	Min	microarrays/filtering/2 channel threshold filter
2	Affy detection filter	Min	microarrays/filtering/Affy detection call filter
3	ANOVA	Min	microarrays/Analysis/ANOVA
4	Aracne	Ken	microarrays/Analysis/aracne
5	blast	Ken	sequences/analysis area/alignment/BLAST
6	CEL imager	Kiran	microarrays/CEL imager
7	CNKB	Michael	microarrays/Cellular Network KB
8	Color mosaic	Thomas	microarrays/color mosaic
9	Dataset annotations	Udo	General/Dataset annotations
10	deviation filter	Thomas	microarrays/filtering/deviation filter
11	expression profiles	Thomas	microarrays/expression profiles
12	Expression theshold	Thomas	microarrays/filtering/Expression threshold filter
13	Expression Value Distribution	Michael	microarrays/EVD
14	Genepix Flags filter	Oleg	microarrays/filtering/Genepix flags filter
15	genSpace	Kiran	General/genspace
16	Hierarchical Clustering	Udo	microarrays/Analysis/Hierarchical clustering
17	house keeping gene normalizer	Oleg	microarrays/Normalization/house keeping gene normalizer
18	Log2 Transformation	Oleg	microarrays/Normalization/Log2 transformation
19	Marker Annotations	Oleg	microarrays/marker annotations
20	marker based centering	Oleg	microarrays/Normalization/Marker based centering
21	MatrixReduce	Min	microarrays/Analysis/matrix reduce
22	mean variance normalizer	Mark	microarrays/Normalization/mean variance normalizer
23	Menu-File	Mark	General/menu/File
24	Microarray centering normalizer	Mark	microarrays/Normalization/array based centering
25	Microarray viewer	Mark	microarrays/Microarray Viewer
26	Mindy	Ken	microarrays/Analysis/MINDY
27	missing value normalizer	Mark	microarrays/Normalization/missing value computations
28	online-help	Ken	General/Help
29	PCA	Udo	microarrays/Analysis/PCA
30	preferences	Udo	General/Preferences
31	Promoter Panel	Kiran	sequences/visual area/Promoter
32	quantile normalizer	Kiran	microarrays/Normalization/quantile normalization
33	Scatter Plot	Ken	microarrays/scatter plot
34	Selection	Udo	General/Selection
35	sequence Panel	Udo	sequences/visual area/Sequence
36	Sequence Retriever	Kiran	microarrays/sequence retriever
37	SOM	Min	microarrays/Analysis/SOM
38	Tabular Microarray Viewer	Michael	microarrays/Tabular Microarray Viewer
39	t-test	Thomas	microarrays/Analysis/t-test

Annotation file "HG_U95Av2.na28.annot.csv" is located at "regression testing/testAll-data/HG_U95Av2.na28.annot.csv"

Thanks a lot for your kind help and support in this matter,

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