Nachos Submission Guide

NachosTAs

v1.2

2011-11-23

Bonus

One point of bonus will be granted to those of you who use the SVN (instead of Emails) to fulfill all the requests throughout the course without making problems. Another point of bonus will be granted to those of you who strictly follow the SVN structure so that the TAs will check out your code and run tests against it using a script. ☺

Deadline

Please refer to the home page to see the deadline for each phase. You can submit your work no later than one week past the deadline, and you can submit for multiple times. The penalty for the delayed submissions and re-submissions is calculated as follows:

$$\text{Penalty} = \left(\frac{(D + 1)D}{2} + (R - 1) \times 5 \right)\%$$

In which D means the number of days past the deadline and R means the number of the times of the submission. Your final grade will be the maximum of the grades of all the submissions you make. However the TAs may choose not to grade your submission if the maximum potential grade of that submission cannot surpass the current one.

Result

The result for each phase will be published one week after the deadline.
To help with your debugging, the full test cases used for grading will be published at the 3rd day past the deadline.

SVN Structure

Your SVN structure would look like this:

```
/trunk
  /nachos-sjtu # the root folder of the Nachos project in
  the Eclipse IDE
     /src # your source code
     /doc # anything to impress TAs in order to get bonus
     /conf # configure files for each phase
```

```
     # DO NOT submit /bin folder
/tags # all your submissions should reside here
  /nachos-phase0-rev2 # an example for the second official
  submission for an imaginary phase 0
    /src
    /doc
    /conf
  # DO NOT delete or rename any official submissions
```

You can create other folders or files not listed above unless explicitly stated. (like /bin)

Instructions for submission

You need to create a tag of your entire Nachos project folder (/trunk/nachos-sjtu) for each submission in /tags. The TAs will checkout your source code and run test cases against it. However only the source code for the specific phase (for phase 1 this is threads) will be used for grading. You would like to make sure your program can run with no problems with the packages of machine, ag, security etc of the initial Nachos Framework. You can feel free to create any other tags in /tags provided it's not recognized as an official submission format described above. Therefore it's always a good idea for you to make sure your tags works correctly by creating some test tags before you make any official submissions to avoid any unnecessary penalties (or to avoid the trouble to beg for the TAs' mercy).

A tag in SVN is just a copy of a folder for a specific revision. By implementation the SVN will make a *hardlink* for that folder in the specific revision in order to save the space. The svn command is pre-installed in most Linux-based system (or you should use apt-get). In Windows you may choose to use [SlikSVN](). You can also choose [TortoiseSVN]() as a GUI alternative.

Suppose you are going to mark the revision 5 to be tested for grading of an imaginary phase 0 as your second submission, you should use the following command in the a terminal or a command line (I assume you follow the SVN structure described above):

svn cp http://202.120.61.3:8103/svn/2011/nachos/*<your-name>*/trunk/nachos-sjtu@5
http://202.120.61.3:8103/svn/2011/nachos/*<your-name>*/tags/nachos-phase0-rev2 -m "" --parents

For TortoiseSVN users, you should firstly make sure /tags is already created in the repository. After that, right click on the nachos-sjtu folder in your explorer, and select TortoiseSVN, then in the submenu select branch/tag…
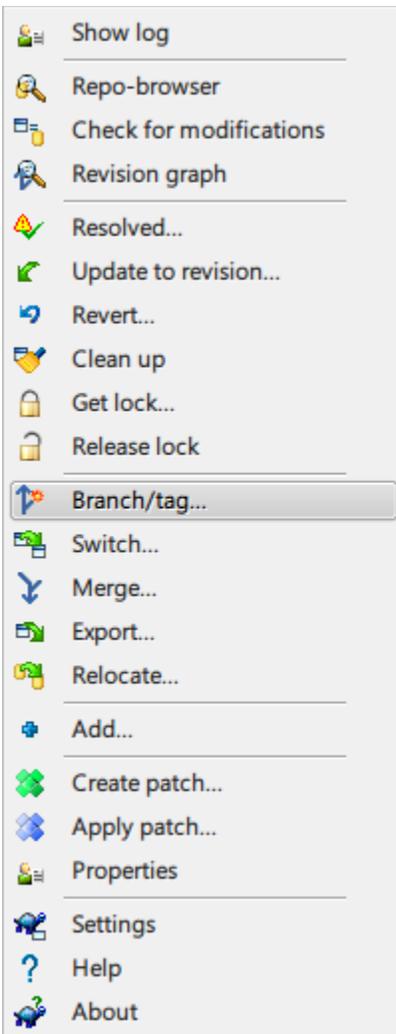
This will bring up the dialog below, ignore the <u>From WC at URL</u> field, put the destination path of the tag (`http://202.120.61.3:8103/svn/2011/nachos/<your-name>/tags/nachos-phase0-rev2`) in the <u>To URL</u> field, specify the revision number in the <u>Specific revision in repository</u> field, and then click OK to finish the submission.
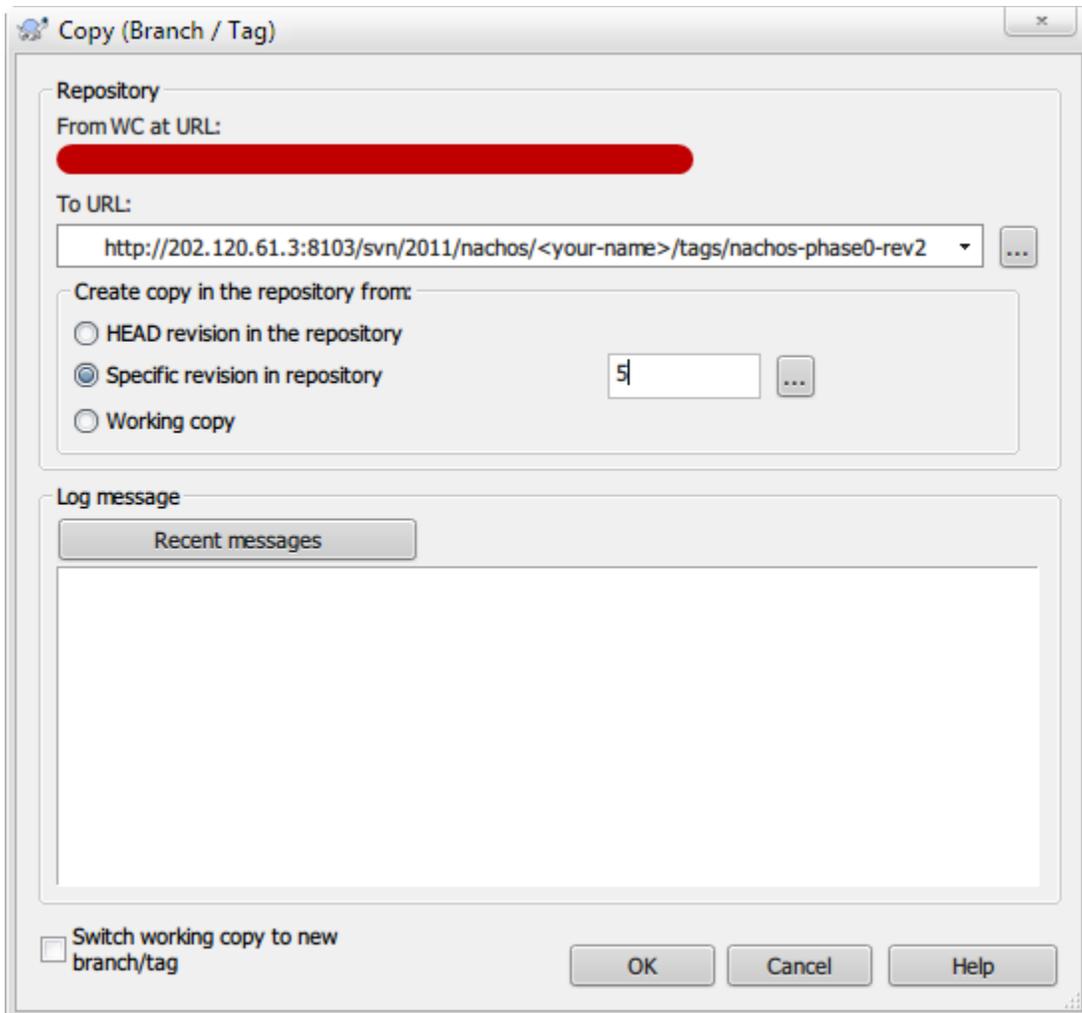
Final Words

Good luck and have fun! ☺