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UCO: 422336 Task: MRG-1020191

https://bugzilla.redhat.com/show bug.cgi?id=1020191

Problem Description

Cumin web ui can sort submissions by the job id but this function is using lexical sort instead of numeric, which causes invalid order of table items.

Example:

localhost.localdomain#1.0
localhost.localdomain#2.0
localhost.localdomain#3.0
localhost.localdomain#4.0
localhost.localdomain#5.0
localhost.localdomain#6.0
localhost.localdomain#7.0
localhost.localdomain#7.0

My Approach To The Solution

localhost.localdomain#9.0

Firstly, I read some information about cumin, particularly user & devel guide. After that, I downloaded the source using svn and installed the cumin devel environment. Installation was not that smooth because the wiki was quite outdated and with a lot of missing information, but eventually (with the help of tmckay, sgraf, tnovacik and others at the #distcomp and ##cumin) I've been able to get the cumin up and running.

I usually use grep to search inside the large code base, so I searched for the term "sort" and hoped that I will find some nice comments or even functions named using the word "sort". I quickly discovered that the method sort_rows() in the qmfadapter.py file is responsible for submissions sorting. Finally I wrote the code that sorts all rows numerically when sorting by the job id.

The last thing I did was writing test scenario and test scripts. I implemented test.sh in shell script because bash is good enough for checking installed packages, calling another scripts, etc. On the other hand, check_cumin_submissions.py is implemented in the Python mainly because of the Selenium WebDriver API availability and the fact that I'm more comfortable writing more complex programs in Python rather than in bash.

Finally, I uploaded the solution to the Bugzilla (Bug 1020191).