

Redmine - Defect #7047

Git adapter very slow when a commit modifies a lot of files

2010-12-05 00:09 - Jean-Baptiste Barth

Status: New	Start date: 2010-12-04
Priority: Low	Due date:
Assignee:	% Done: 0%
Category: SCM	Estimated time: 0.00 hour
Target version:	Affected version:
Resolution:	
Description	
<p>I have a Git repo with thousands of files modified in some commits. Repository index action is very slow (>20s).</p> <p>At first sight, it seems it's due to Redmine::Scm::Adapters::GitAdapter#revisions uses --raw option, which is not needed in all cases, at least not needed in Repository::Git#latest_changesets. It results in thousands of useless lines parsed after the shell-out.</p> <p>I'll have a look at that. I admit it's not a common use case, hence the priority.</p>	
Related issues:	
Related to Redmine - Defect # 1435: slow display of 'repository' tab for huge...	Closed 2008-06-12
Related to Redmine - Defect # 5096: Redmine hangs up while browsing Git repos...	Closed 2010-03-16
Related to Redmine - Defect # 4773: Redmine+Git+PostgresSQL 8.4 fails with li...	Closed 2010-02-09
Related to Redmine - Feature # 6092: Truncate Git revision labels in Activity...	Closed 2010-08-09
Related to Redmine - Defect # 5357: Git: SCM revisions ordered by date/time (...)	New 2010-04-20
Related to Redmine - Defect # 6013: git tab,browsing, very slow -- even after...	Closed 2010-08-02
Related to Redmine - Feature # 8365: Git: per project setting to report last ...	Closed 2011-05-13

Associated revisions

Revision 4797 - 2011-02-04 11:24 - Toshi MARUYAMA

scm: change key name of configurable command name (#7517, #6159, #7047).

Revision 4851 - 2011-02-16 12:16 - Toshi MARUYAMA

scm: git: implement find_changeset_by_name (#7047).

SQL "like" is slow.

Revision 4945 - 2011-02-24 14:01 - Toshi MARUYAMA

scm: git: add flag of disable showing last commit in repository tree (#7047).

Revision 5639 - 2011-05-04 20:07 - Toshi MARUYAMA

scm: git: split adapter entries() for browsing tree performance (#7047).

Revision 5640 - 2011-05-04 20:07 - Toshi MARUYAMA

scm: git: override adapter entry() for browsing tree performance (#7047).

Revision 5641 - 2011-05-04 20:08 - Toshi MARUYAMA

scm: git: call entries_git() in adapter entriese() for browsing tree performance (#7047).

Revision 5642 - 2011-05-04 20:09 - Toshi MARUYAMA

scm: git: call entries_git() in adapter entry() for browsing tree performance (#7047).

cat/diff/blame link calls adapter entry().

Abstract adapter entry() calls adapter entries().

Git adapter entries() is very slow.

Revision 5654 - 2011-05-05 13:42 - Toshi MARUYAMA

scm: git: use report_last_commit option in unit adapter test (#7047).

Revision 5655 - 2011-05-05 13:42 - Toshi MARUYAMA

scm: git: override entries() in model for browsing tree performance (#7047).

Revision 5656 - 2011-05-05 13:43 - Toshi MARUYAMA

scm: git: add the model method whether reporting last commit in repository tree (#7047).

Revision 5657 - 2011-05-05 13:43 - Toshi MARUYAMA

scm: git: use the model value of whether reporting last commit in repository tree (#7047).

And remove entries_git() and the flag in adapter.

Revision 5661 - 2011-05-06 05:43 - Toshi MARUYAMA

scm: git: change model report_last_commit() name to extra_report_last_commit() (#7047).

Revision 5762 - 2011-05-12 19:29 - Toshi MARUYAMA

scm: add "extra_info" column to repositories table and set serialize (#7146, #7047).

This column is for specific SCM.

Git 7 days problem (#7146) can not resolve unless storing branches info in database.

Revision 5766 - 2011-05-13 01:58 - Toshi MARUYAMA

scm: add a repository model method "merge_extra_info()" to merge "extra_info" serializing hash yaml (#7146, #7047).

Revision 5767 - 2011-05-13 01:58 - Toshi MARUYAMA

scm: add a test of a repository model method "merge_extra_info()" in unit test (#7146, #7047).

Revision 5768 - 2011-05-13 05:51 - Toshi MARUYAMA

scm: git: get "extra_report_last_commit" value from extra_info (#8365, #7047).

Browsing repository tree performance problem is git only.
So, adding new "report_last_commit" column is very expensive.

Revision 5769 - 2011-05-13 05:51 - Toshi MARUYAMA

scm: switch to save repository setting params in "extra_" or not (#8365, #7047).

Revision 5770 - 2011-05-13 05:52 - Toshi MARUYAMA

scm: use repository merge_extra_info() to save extra_parameter (#8365, #7047).

Revision 5771 - 2011-05-13 05:52 - Toshi MARUYAMA

scm: git: add check box of whether reporting last commit for files and directories in project setting (#8365, #7047).

Browsing repository tree performance problem is git only.
So, adding new "report_last_commit" column is very expensive.

Revision 5772 - 2011-05-13 05:53 - Toshi MARUYAMA

scm: git: use i18n text whether reporting last commit for files and directories in project setting (#8365, #7047).

Revision 5773 - 2011-05-13 05:54 - Toshi MARUYAMA

scm: git: add Japanese translation of whether reporting last commit for files and directories in project setting (#8365, #7047).

Revision 5774 - 2011-05-13 05:54 - Toshi MARUYAMA

scm: update locales of whether reporting last commit for files and directories in project setting (#8365, #7047).

Revision 5775 - 2011-05-13 05:55 - Toshi MARUYAMA

scm: git: show only filename and filesize if setting of reporting last commit is disable (#8365, #7047).

History

#1 - 2010-12-05 00:45 - Toshi MARUYAMA

Please see <http://www.redmine.org/issues/4773#note-14> and try patch <http://www.redmine.org/attachments/3272/git-fast-browse.patch>

#2 - 2010-12-05 00:52 - Toshi MARUYAMA

Please see following links.

- <http://www.redmine.org/issues/1435#note-18>
- <http://www.redmine.org/issues/6092#note-7>

#3 - 2011-02-08 02:37 - Toshi MARUYAMA

```
$ time wget https://www.chiliproject.org/projects/chiliproject/repository
--2011-02-08 10:33:38-- https://www.chiliproject.org/projects/chiliproject/repository
Resolving www.chiliproject.org... 184.171.175.157
Connecting to www.chiliproject.org|184.171.175.157|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 30894 (30K) [text/html]
Saving to: `repository'
```

```
100%[=====] 30,894
  --K/s in 0.1s
```

```
2011-02-08 10:33:41 (213 KB/s) - `repository' saved [30894/30894]
```

```
real 0m3.378s
user 0m0.063s
sys 0m0.023s
```

```
$ time wget https://www.chiliproject.org/projects/chiliproject/repository/revisions/master/show/db/migrate
--2011-02-08 10:33:54-- https://www.chiliproject.org/projects/chiliproject/repository/revisions/master/show/db/migrate
Resolving www.chiliproject.org... 184.171.175.157
Connecting to www.chiliproject.org|184.171.175.157|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 139043 (136K) [text/html]
Saving to: `migrate'
```

```
100%[=====]
139,043 216K/s in 0.6s
```

```
2011-02-08 10:34:20 (216 KB/s) - `migrate' saved [139043/139043]
```

```
real 0m26.036s
user 0m0.068s
sys 0m0.024s
```

#4 - 2011-02-16 12:21 - Etienne Massip

- Assignee changed from Jean-Baptiste Barth to Toshi MARUYAMA

#5 - 2011-02-17 02:43 - Toshi MARUYAMA

The issue cannot be solved to no use of wrap git command such as Yuya's Mercurial extension.

source:trunk/lib/redmine/scm/adapters/mercurial/redminehelper.py

#6 - 2011-03-03 09:25 - Toshi MARUYAMA

- File *false_flag_report_last_commit.png* added

- File *true_flag_report_last_commit.png* added

- Assignee deleted (Toshi MARUYAMA)

I added flag to switch showing last commit at source:trunk/lib/redmine/scm/adapters/git_adapter.rb@4992#L25.

true

```
$ time wget http://localhost:3000/projects/redmine-git-00/repository/revisions/master/show/db/migrate
--2011-02-24 21:17:23-- http://localhost:3000/projects/redmine-git-00/repository/revisions/master/show/db/migrate
Resolving localhost... 127.0.0.1
Connecting to localhost[127.0.0.1]:3000... connected.
HTTP request sent, awaiting response... 200 OK
Length: 139135 (136K) [text/html]
Saving to: `migrate'

100%[=====>] 139,135  --K/s in
0.009s

2011-02-24 21:18:11 (15.5 MB/s) - `migrate' saved [139135/139135]

real 0m47.799s
user 0m0.004s
sys 0m0.013s
```

true_flag_report_last_commit.png

false

```
$ time wget http://localhost:3000/projects/redmine-git-00/repository/revisions/master/show/db/migrate
--2011-02-24 21:20:43-- http://localhost:3000/projects/redmine-git-00/repository/revisions/master/show/db/migrate
Resolving localhost... 127.0.0.1
Connecting to localhost[127.0.0.1]:3000... connected.
HTTP request sent, awaiting response... 200 OK
Length: 100345 (98K) [text/html]
Saving to: `migrate'

100%[=====>] 100,345  --K/s in
0.007s

2011-02-24 21:20:45 (14.7 MB/s) - `migrate' saved [100345/100345]

real 0m2.076s
user 0m0.005s
sys 0m0.007s
```

false_flag_report_last_commit.png

I don't have a plan to refactor git adapter.

#7 - 2011-10-20 00:27 - Toshi MARUYAMA

Related issue:

<https://www.chiliproject.org/issues/669>

#8 - 2013-01-13 21:04 - Jean-Philippe Lang

- Status changed from 7 to New

Assigned issue with no assignee back to New status.

Files

false_flag_report_last_commit.png	96 KB	2011-03-03	Toshi MARUYAMA
true_flag_report_last_commit.png	145 KB	2011-03-03	Toshi MARUYAMA