

## Redmine - Defect #1663

### Redmine+Git+PostgreSQL 8.3 Cannot work with multi-bytes language

2008-07-18 23:16 - Justin Waters

<b>Status:</b>	Closed	<b>Start date:</b>	2008-07-18
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	Jean-Philippe Lang	<b>% Done:</b>	0%
<b>Category:</b>	SCM	<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>	0.8	<b>Affected version:</b>	
<b>Resolution:</b>	Fixed		
<b>Description</b>			
<p>I'm running in to the same issues as the following two bugs, but using Git as the repository:</p> <p><a href="#">#834</a> <a href="#">#917</a></p> <pre>RuntimeError: ERROR      C22021      Minvalid byte sequence for encoding "UTF8": 0xa0      HThis error c an also happen if the byte sequence does not match the encoding expected by the server, which is c ontrolled by "client_encoding".      Fwchar.c      L1545      Rreport_invalid_encoding: INSERT INTO chan gesets ("commit_date", "comments", "committed_on", "revision", "scmid", "repository_id", "committe r") VALUES ('2005-04-16 15:24:43.000000', E'[PATCH] intel8x0: AC\ '97 audio patch for Intel ESB2  This patch adds the Intel ESB2 DID\'s to the intel8x0.c file for AC\ '97 audio support.  Signed-off-by: ♦Jason Gaston &lt;Jason.d.gaston@intel.com&gt; Signed-off-by: Andrew Morton &lt;akpm@osdl.org&gt; Signed-off-by: Linus Torvalds &lt;torvalds@osdl.org&gt;', '2005-04-16 15:24:43.000000', E'c4c8ea948aa215 27d502e87227b2f1d951bc506d', E'c4c8ea948aa21527d502e87227b2f1d951bc506d', 9, E'Jason Gaston &lt;jason .d.gaston@intel.com&gt;')</pre> <pre>/usr/local/lib/ruby/gems/1.8/gems/activerecord-2.0.2/lib/active_record/connection_adapters/abstrac t_adapter.rb:150:in `log' /usr/local/lib/ruby/gems/1.8/gems/activerecord-2.0.2/lib/active_record/connection_adapters/postgre sql_adapter.rb:407:in `execute' /usr/local/lib/ruby/gems/1.8/gems/activerecord-2.0.2/lib/active_record/connection_adapters/abstrac t/database_statements.rb:156:in `insert_sql' /usr/local/lib/ruby/gems/1.8/gems/activerecord-2.0.2/lib/active_record/connection_adapters/abstrac t/database_statements.rb:44:in `insert_without_query_dirty' /usr/local/lib/ruby/gems/1.8/gems/activerecord-2.0.2/lib/active_record/connection_adapters/abstrac t/query_cache.rb:19:in `insert' /usr/local/lib/ruby/gems/1.8/gems/activerecord-2.0.2/lib/active_record/connection_adapters/postgre sql_adapter.rb:390:in `insert' /usr/local/lib/ruby/gems/1.8/gems/activerecord-2.0.2/lib/active_record/base.rb:2272:in `create_wit hout_callbacks' /usr/local/lib/ruby/gems/1.8/gems/activerecord-2.0.2/lib/active_record/callbacks.rb:226:in `create _without_timestamps' /usr/local/lib/ruby/gems/1.8/gems/activerecord-2.0.2/lib/active_record/timestamp.rb:29:in `create' /usr/local/lib/ruby/gems/1.8/gems/activerecord-2.0.2/lib/active_record/base.rb:2238:in `create_or_ update_without_callbacks' /usr/local/lib/ruby/gems/1.8/gems/activerecord-2.0.2/lib/active_record/callbacks.rb:213:in `create _or_update' /usr/local/lib/ruby/gems/1.8/gems/activerecord-2.0.2/lib/active_record/base.rb:1972:in `save_witho ut_validation' /usr/local/lib/ruby/gems/1.8/gems/activerecord-2.0.2/lib/active_record/validations.rb:934:in `save _without_transactions' /usr/local/lib/ruby/gems/1.8/gems/activerecord-2.0.2/lib/active_record/transactions.rb:108:in `sav e' /usr/local/lib/ruby/gems/1.8/gems/activerecord-2.0.2/lib/active_record/connection_adapters/abstrac t/database_statements.rb:66:in `transaction' /usr/local/lib/ruby/gems/1.8/gems/activerecord-2.0.2/lib/active_record/transactions.rb:80:in `tran saction'</pre>			

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/usr/local/lib/ruby/gems/1.8/gems/activerecord-2.0.2/lib/active_record/transactions.rb:100:in `transaction'
/usr/local/lib/ruby/gems/1.8/gems/activerecord-2.0.2/lib/active_record/transactions.rb:108:in `save'
/usr/local/lib/ruby/gems/1.8/gems/activerecord-2.0.2/lib/active_record/transactions.rb:120:in `rollback_active_record_state!'
/usr/local/lib/ruby/gems/1.8/gems/activerecord-2.0.2/lib/active_record/transactions.rb:108:in `save'
/usr/local/lib/ruby/gems/1.8/gems/activerecord-2.0.2/lib/active_record/base.rb:572:in `create'
app/models/repository/git.rb:51:in `fetch_changesets'
app/models/repository/git.rb:50:in `reverse_each'
app/models/repository/git.rb:50:in `fetch_changesets'
/usr/local/lib/ruby/gems/1.8/gems/activerecord-2.0.2/lib/active_record/connection_adapters/abstract/database_statements.rb:66:in `transaction'
/usr/local/lib/ruby/gems/1.8/gems/activerecord-2.0.2/lib/active_record/transactions.rb:80:in `transaction'
/usr/local/lib/ruby/gems/1.8/gems/activerecord-2.0.2/lib/active_record/transactions.rb:100:in `transaction'
app/models/repository/git.rb:49:in `fetch_changesets'
/usr/local/lib/ruby/gems/1.8/gems/activerecord-2.0.2/lib/active_record/associations/association_proxy.rb:125:in `send'
/usr/local/lib/ruby/gems/1.8/gems/activerecord-2.0.2/lib/active_record/associations/association_proxy.rb:125:in `method_missing'
app/controllers/repositories_controller.rb:53:in `show'
/usr/local/lib/ruby/gems/1.8/gems/actionpack-2.0.2/lib/action_controller/base.rb:1158:in `send'
/usr/local/lib/ruby/gems/1.8/gems/actionpack-2.0.2/lib/action_controller/base.rb:1158:in `perform_action_without_filters'
/usr/local/lib/ruby/gems/1.8/gems/actionpack-2.0.2/lib/action_controller/filters.rb:697:in `call_filters'
/usr/local/lib/ruby/gems/1.8/gems/actionpack-2.0.2/lib/action_controller/filters.rb:689:in `perform_action_without_benchmark'
/usr/local/lib/ruby/gems/1.8/gems/actionpack-2.0.2/lib/action_controller/benchmarking.rb:68:in `perform_action_without_rescue'
/usr/local/lib/ruby/1.8/benchmark.rb:293:in `measure'
/usr/local/lib/ruby/gems/1.8/gems/actionpack-2.0.2/lib/action_controller/benchmarking.rb:68:in `perform_action_without_rescue'
/usr/local/lib/ruby/gems/1.8/gems/actionpack-2.0.2/lib/action_controller/rescue.rb:199:in `perform_action_without_caching'
/usr/local/lib/ruby/gems/1.8/gems/actionpack-2.0.2/lib/action_controller/caching.rb:678:in `perform_action'
/usr/local/lib/ruby/gems/1.8/gems/activerecord-2.0.2/lib/active_record/connection_adapters/abstract/query_cache.rb:33:in `cache'
/usr/local/lib/ruby/gems/1.8/gems/activerecord-2.0.2/lib/active_record/query_cache.rb:8:in `cache'
/usr/local/lib/ruby/gems/1.8/gems/actionpack-2.0.2/lib/action_controller/caching.rb:677:in `perform_action'
/usr/local/lib/ruby/gems/1.8/gems/actionpack-2.0.2/lib/action_controller/base.rb:524:in `send'
/usr/local/lib/ruby/gems/1.8/gems/actionpack-2.0.2/lib/action_controller/base.rb:524:in `process_without_filters'
/usr/local/lib/ruby/gems/1.8/gems/actionpack-2.0.2/lib/action_controller/filters.rb:685:in `process_without_session_management_support'
/usr/local/lib/ruby/gems/1.8/gems/actionpack-2.0.2/lib/action_controller/session_management.rb:123:in `process'
/usr/local/lib/ruby/gems/1.8/gems/actionpack-2.0.2/lib/action_controller/base.rb:388:in `process'
/usr/local/lib/ruby/gems/1.8/gems/actionpack-2.0.2/lib/action_controller/dispatcher.rb:171:in `handle_request'
/usr/local/lib/ruby/gems/1.8/gems/actionpack-2.0.2/lib/action_controller/dispatcher.rb:115:in `dispatch'
/usr/local/lib/ruby/gems/1.8/gems/actionpack-2.0.2/lib/action_controller/dispatcher.rb:126:in `dispatch CGI'
/usr/local/lib/ruby/gems/1.8/gems/actionpack-2.0.2/lib/action_controller/dispatcher.rb:9:in `dispatch'
/usr/local/lib/ruby/gems/1.8/gems/mongrel-1.1.5/lib/mongrel/rails.rb:76:in `process'
/usr/local/lib/ruby/gems/1.8/gems/mongrel-1.1.5/lib/mongrel/rails.rb:74:in `synchronize'
/usr/local/lib/ruby/gems/1.8/gems/mongrel-1.1.5/lib/mongrel/rails.rb:74:in `process'
/usr/local/lib/ruby/gems/1.8/gems/mongrel-1.1.5/lib/mongrel.rb:159:in `process_client'
/usr/local/lib/ruby/gems/1.8/gems/mongrel-1.1.5/lib/mongrel.rb:158:in `each'
/usr/local/lib/ruby/gems/1.8/gems/mongrel-1.1.5/lib/mongrel.rb:158:in `process_client'
```

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/usr/local/lib/ruby/gems/1.8/gems/mongrel-1.1.5/lib/mongrel.rb:285:in `run'  
/usr/local/lib/ruby/gems/1.8/gems/mongrel-1.1.5/lib/mongrel.rb:285:in `initialize'  
/usr/local/lib/ruby/gems/1.8/gems/mongrel-1.1.5/lib/mongrel.rb:285:in `new'  
/usr/local/lib/ruby/gems/1.8/gems/mongrel-1.1.5/lib/mongrel.rb:285:in `run'  
/usr/local/lib/ruby/gems/1.8/gems/mongrel-1.1.5/lib/mongrel.rb:268:in `initialize'  
/usr/local/lib/ruby/gems/1.8/gems/mongrel-1.1.5/lib/mongrel.rb:268:in `new'  
/usr/local/lib/ruby/gems/1.8/gems/mongrel-1.1.5/lib/mongrel.rb:268:in `run'  
/usr/local/lib/ruby/gems/1.8/gems/mongrel-1.1.5/lib/mongrel/configurator.rb:282:in `run'  
/usr/local/lib/ruby/gems/1.8/gems/mongrel-1.1.5/lib/mongrel/configurator.rb:281:in `each'  
/usr/local/lib/ruby/gems/1.8/gems/mongrel-1.1.5/lib/mongrel/configurator.rb:281:in `run'  
/usr/local/lib/ruby/gems/1.8/gems/mongrel-1.1.5/bin/mongrel_rails:128:in `run'  
/usr/local/lib/ruby/gems/1.8/gems/mongrel-1.1.5/lib/mongrel/command.rb:212:in `run'  
/usr/local/lib/ruby/gems/1.8/gems/mongrel-1.1.5/bin/mongrel_rails:281  
/usr/local/bin/mongrel_rails:19:in `load'  
/usr/local/bin/mongrel_rails:19
```

## Environment

- Server OS: Debian Etch Stable AMD64
- Redmine: 0.7.3
- Ruby: 1.8.6
- Rails: 2.0.2
- PostgreSQL: 8.3.3
- Git: 1.4.4.4

## Associated revisions

### Revision 1767 - 2008-08-26 14:13 - Jean-Philippe Lang

Adds support for commit logs reencoding to UTF-8 before insertion in the database (#834, #917, #1663).  
Source encoding of commit logs can be selected in Application settings -> Repositories.

## History

### #1 - 2008-07-20 19:45 - Jean-Philippe Lang

I think you can configure git so that it outputs utf8 encoded commit logs.

### #2 - 2008-08-26 14:12 - Jean-Philippe Lang

[r1767](#) adds support for commit messages reencoding.

Choose the appropriate source encoding in Application settings -> Repositories. Messages will be reencoded to UTF-8 before insertion in the database.

### #3 - 2008-08-26 14:12 - Jean-Philippe Lang

- Status changed from New to Closed

- Target version set to 0.8

- Resolution set to Fixed

### #4 - 2009-01-22 08:44 - Jérémy Lal

- Status changed from Closed to Reopened

- Assignee set to Jean-Philippe Lang

Something quite similar is happening now, some guy used latin-1 to type his log message in git (it should have been UTF-8).

- UTF-8 is checked in settings/repositories.
- locale and database : unicode

Rendering /usr/share/redmine/public/500.html (500 Internal Server Error)

Processing RepositoriesController#show (for 90.20.10.177 at 2009-01-22 07:54:43) [GET]

Session ID: bdea66d703997d016cd8d48f05b88262

Parameters: {"action"=>"show", "id"=>"test", "controller"=>"repositories"}

ActiveRecord::StatementInvalid (PGError: ERREUR: séquence d'octets invalide pour l'encodage « UTF8 » : 0x88  
HINT: Cette erreur peut aussi survenir si la séquence d'octets ne correspond pas  
au jeu de caractères attendu par le serveur, le jeu étant contrôlé par  
« client\_encoding »).

```

: INSERT INTO "changesets" ("committed_on", "comments", "commit_date", "scmid", "user_id", "revision", "repository_id", "committer") VALUES('2009-01-19 18:39:28.000000', E'HERE ~^H ENCODING ERROR', '2009-01-19 18:39:28.000000', E'09ddea6b5f0822f8181bbc616beed35b04176e2f', 3, E'09ddea6b5f0822f8181bbc616beed35b04176e2f', 1, E'Some Name <some@some.com>') RETURNING "id"):
/var/lib/gems/1.8/gems/activerecord-2.1.2/lib/active_record/connection_adapters/abstract_adapter.rb:147:in `log'
/var/lib/gems/1.8/gems/activerecord-2.1.2/lib/active_record/connection_adapters/postgresql_adapter.rb:484:in `execute'
/var/lib/gems/1.8/gems/activerecord-2.1.2/lib/active_record/connection_adapters/postgresql_adapter.rb:929:in `select_raw'
/var/lib/gems/1.8/gems/activerecord-2.1.2/lib/active_record/connection_adapters/postgresql_adapter.rb:916:in `select'
/var/lib/gems/1.8/gems/activerecord-2.1.2/lib/active_record/connection_adapters/abstract/database_statements.rb:7:in `select_all_without_query_cache'
/var/lib/gems/1.8/gems/activerecord-2.1.2/lib/active_record/connection_adapters/abstract/query_cache.rb:59:in `select_all'
/var/lib/gems/1.8/gems/activerecord-2.1.2/lib/active_record/connection_adapters/abstract/query_cache.rb:80:in `cache_sql'
/var/lib/gems/1.8/gems/activerecord-2.1.2/lib/active_record/connection_adapters/abstract/query_cache.rb:59:in `select_all'
/var/lib/gems/1.8/gems/activerecord-2.1.2/lib/active_record/connection_adapters/abstract/database_statements.rb:13:in `select_one'
/var/lib/gems/1.8/gems/activerecord-2.1.2/lib/active_record/connection_adapters/abstract/database_statements.rb:19:in `select_value'
/var/lib/gems/1.8/gems/activerecord-2.1.2/lib/active_record/connection_adapters/postgresql_adapter.rb:433:in `insert'
/var/lib/gems/1.8/gems/activerecord-2.1.2/lib/active_record/base.rb:2517:in `create_without_callbacks'
/var/lib/gems/1.8/gems/activerecord-2.1.2/lib/active_record/callbacks.rb:220:in `create_without_timestamps'
/var/lib/gems/1.8/gems/activerecord-2.1.2/lib/active_record/timestamp.rb:29:in `create'
/var/lib/gems/1.8/gems/activerecord-2.1.2/lib/active_record/base.rb:2483:in `create_or_update_without_callbacks'
/var/lib/gems/1.8/gems/activerecord-2.1.2/lib/active_record/callbacks.rb:207:in `create_or_update'
/var/lib/gems/1.8/gems/activerecord-2.1.2/lib/active_record/base.rb:2217:in `save_without_validation!'
/var/lib/gems/1.8/gems/activerecord-2.1.2/lib/active_record/validations.rb:921:in `save_without_dirty!'
/var/lib/gems/1.8/gems/activerecord-2.1.2/lib/active_record/dirty.rb:83:in `save_without_transactions!'
/var/lib/gems/1.8/gems/activerecord-2.1.2/lib/active_record/transactions.rb:110:in `save!'
/var/lib/gems/1.8/gems/activerecord-2.1.2/lib/active_record/connection_adapters/abstract/database_statements.rb:66:in `transaction'
/var/lib/gems/1.8/gems/activerecord-2.1.2/lib/active_record/transactions.rb:79:in `transaction'
/var/lib/gems/1.8/gems/activerecord-2.1.2/lib/active_record/transactions.rb:98:in `transaction'
/var/lib/gems/1.8/gems/activerecord-2.1.2/lib/active_record/transactions.rb:110:in `save!'
/var/lib/gems/1.8/gems/activerecord-2.1.2/lib/active_record/transactions.rb:118:in `rollback_active_record_state!'
/var/lib/gems/1.8/gems/activerecord-2.1.2/lib/active_record/transactions.rb:110:in `save!'
/var/lib/gems/1.8/gems/activerecord-2.1.2/lib/active_record/validations.rb:892:in `create!'
/app/models/repository/git.rb:50:in `fetch_changesets'
/var/lib/gems/1.8/gems/activerecord-2.1.2/lib/active_record/connection_adapters/abstract/database_statements.rb:66:in `transaction'
/var/lib/gems/1.8/gems/activerecord-2.1.2/lib/active_record/transactions.rb:79:in `transaction'
/var/lib/gems/1.8/gems/activerecord-2.1.2/lib/active_record/transactions.rb:98:in `transaction'
/app/models/repository/git.rb:49:in `fetch_changesets'
/lib/redmine/scm/adapters/git_adapter.rb:165:in `revisions'
/lib/redmine/scm/adapters/git_adapter.rb:151:in `each_line'
/lib/redmine/scm/adapters/git_adapter.rb:151:in `revisions'
/lib/redmine/scm/adapters/abstract_adapter.rb:181:in `call'
/lib/redmine/scm/adapters/abstract_adapter.rb:181:in `shellout'
/lib/redmine/scm/adapters/abstract_adapter.rb:179:in `popen'
/lib/redmine/scm/adapters/abstract_adapter.rb:179:in `shellout'
/lib/redmine/scm/adapters/abstract_adapter.rb:165:in `shellout'
/lib/redmine/scm/adapters/git_adapter.rb:145:in `revisions'
/app/models/repository/git.rb:47:in `fetch_changesets'
/var/lib/gems/1.8/gems/activerecord-2.1.2/lib/active_record/associations/association_proxy.rb:173:in `send'
/var/lib/gems/1.8/gems/activerecord-2.1.2/lib/active_record/associations/association_proxy.rb:173:in `method_missing'
/app/controllers/repositories_controller.rb:69:in `show'

```

## Environment

- **Server OS : Debian etch**
- **Redmine : 0.8.0**
- **Ruby : 1.8.7**
- **Rails : 2.1.2**

- **Postgresql : 8.3.5**
- **Git : 1.5.6.5**

**#5 - 2009-01-22 09:13 - Jérémy Lal**

indeed git-log returns the comment as :  
some stuff <88> and stuff  
it should be "à", but it seems that the client's editor screwed that character encoding.  
is there a way to correct this ? i'm not going to do a rebase to correct the commit messages...

**#6 - 2009-01-22 09:23 - Jérémy Lal**

after investigation, instead of doing nothing to the string, may be this would be better :  
in app/models/changeset.rb, line 148 :

```
return Iconv.conv('UTF-8//IGNORE', encoding, str)
```

that would strip illegal characters, so it's failure proof.

**#7 - 2009-01-22 09:37 - Jérémy Lal**

i just made that modification, restarted web server, and i still get the error.  
It seems  
changeset.rb#to\_utf8  
is not called. I'm probably missing something.  
Sorry for the hammering.

**#8 - 2009-01-22 17:27 - Jean-Philippe Lang**

- *Status changed from Reopened to Closed*

It's not called if 'Commit messages encoding' is set to UTF-8 (no reencoding required).  
It should be set to something like ISO-8859-1 since your git logs are not UTF-8.

Open a new ticket if needed.

**#9 - 2010-02-09 03:28 - Oren Laadan**

Hi,

I also hit this one before, and now again.  
You asked to open a new ticket - so here it is:  
Issue [#4773](#)

Thanks,

Oren.