

## 1、验证 gerrit 是否存在排队现象？

验证方法：<1>同时打开相同文件编辑，提交代码审核，是否存在时间先后问题？

Subject	Status	Owner
change file1	Merge Conflict	tanchun
Revert "aaa"		gerrit
add file1		prize-bs14
add file1		prize-bs14

结果：后审核 submit 合并的会显示有 merge conflict

<2>同时编辑同一个工程，不同文件夹里面的文件，是否存在排队审核先后的问题？

Tanchun 修改 a/a.txt （后提交，先审核 submit）

Prize-bs14 增加文件夹 B，并修改 b/b.txt,(先提交，后审核 submit)

tanchun 合并结果：（没问题）

The screenshot shows the Gerrit interface for a merged change. The change is titled 'Change 416 - Merged' and is owned by 'tanchun'. The commit message is 'tanchun <tanchun@szprize.com>'. The commit hash is 'dbd33ba53ab6dc96c4c9297ba5db84fc87312'. The parent commit is '1dcacac1267e3859c9a85791ce99f457b79b27'. The change ID is '13161f481bd8487678a5db824612d7116c9e2871'. The change is merged and the status is 'Merged'.

Prize-bs14 合并结果：（没问题）

The screenshot shows the Gerrit interface for a merged change. The change is titled 'Change 415 - Merged' and is owned by 'prize-bs14'. The commit message is 'prize-bs14 <prize-bs14@szprize.com>'. The commit hash is '3932e4e9967f6b2ba3b39223ecaf723943cd94'. The parent commit is '1dcacac1267e3859c9a85791ce99f457b79b27'. The change ID is '1e88e60588f6ca866262c9b0a0e0d5dc30d9aa'. The change is merged and the status is 'Merged'.

接下来，同时修改三次提交

The screenshot shows the Gerrit interface with a search for 'status:open'. The search results are displayed in a table with columns: ID, Subject, Status, Owner, Project, Branch, Updated, Size, CR, and V. The results are as follows:

ID	Subject	Status	Owner	Project	Branch	Updated	Size	CR	V
429	change c/c2.txt		prize-bs14	dev_group/test	master	in the future			
428	b/b2.txt		prize-bs14	dev_group/test	master	in the future			
427	a/a2.txt		prize-bs14	dev_group/test	master	in the future			
426	add f		tanchun	dev_group/test	master	2 minutes ago			
425	add e		tanchun	dev_group/test	master	2 minutes ago			
424	add d		tanchun	dev_group/test	master	2 minutes ago			

Change 426 **Submitted, Merge Pending**

add f

Change-Id: I30754ade472d78f047bf9eaf727ae1e3e3554e55

Owner: tanchun  
Reviewers: gerrit x

Project: dev\_group/test

Branch: master

Topic: Merge if Necessary

Strategy: Merge if Necessary

Updated: in the future

Cherry Pick, Rebase, Abandon, Follow-Up, Submit

Related Changes (3)

- add f
- add e
- add d

因为tanchun本身前面还有e,d这两条还没提交, 所以submit不了

Author: tanchun <tanchun@szprize.com> Jun 9, 2017 4:03 PM

只是对个人的 submit 顺序有影响, 对其他人的不影响

Search for status:merged

ID	Subject	Status	Owner	Project	Branch	Updated	Size	CR	V
429	change c/c2.txt	Merged	prize-bs14	dev_group/test	master	in the future		✓	✓
428	b/b2.txt	Merged	prize-bs14	dev_group/test	master	in the future		✓	✓
427	a/a2.txt	Merged	prize-bs14	dev_group/test	master	in the future		✓	✓
426	add f	Merged	tanchun	dev_group/test	master	in the future		✓	✓
425	add e	Merged	tanchun	dev_group/test	master	in the future		✓	✓
424	add d	Merged	tanchun	dev_group/test	master	in the future		✓	✓

两者submit不受影响

结论: 同时编辑同一个工程, 不同文件夹里面的文件, 互不影响

<3>同时编辑工程里面的文件进行 commit, 但是可能存在交叉使用的情况?

Tanchun 修改三步: <1>c/c.txt <2>a/a.txt <3>file1 分三次 commit

Prize-bs14 修改: <1>a/a.txt <2>b/b.txt 分两次 commit

两者存在共同修改 a/a.txt 的情况, 且 prize-bs14 是在第一个 commit 点, tanchun 是在第二 commit 点。

Search for status:open

ID	Subject	Status	Owner	Project	Branch	Updated	Size	CR	V
442	交叉测试3		gerrit	dev_group/test	master	in the future			
441	交叉测试2		gerrit	dev_group/test	master	in the future			
440	交叉测试1		gerrit	dev_group/test	master	in the future			
438	123 to b/b.txt		prize-bs14	dev_group/test	master	18 hours ago			
437	123 to a/a.txt		prize-bs14	dev_group/test	master	18 hours ago			

gerrit提交三次

修改同一个文件

提交两次

如果: Prize-bs14 先审核 submit 437 这个点, 会显示如下:

ID	Subject	Status	Owner	Project	Branch	Updated	Size	CR	V
437	123 to a/a.txt	Submitted, Merge Pending	prize-bs14	dev_group/test	master	in the future		✓	✓
442	交叉测试3		gerrit	dev_group/test	master	8 minutes ago			
441	交叉测试2		gerrit	dev_group/test	master	8 minutes ago			
440	交叉测试1		gerrit	dev_group/test	master	8 minutes ago			
438	123 to b/b.txt		prize-bs14	dev_group/test	master	18 hours ago			

会显示与 441 交叉测试2有冲突

192.168.1.49:9999/#/c/437/

All My Projects People Plugins Documentation Search term Search Gerrit

Open Merged Abandoned

Change 437 - Submitted, Merge Pending  
123 to a/a.txt  
Change-Id: I7bc22e93cabb55a086bc5aabfcea2b6e8e7558b0

Reply... Patch Sets (1/1) Download

Owner prize-bs14  
Reviewers gerrit x Add...  
Project dev\_group/test  
Branch master  
Topic  
Strategy Merge if Necessary  
Updated 2 minutes ago  
Cherry Pick Rebase

Related Changes (3)  
交叉测试2  
Conflicts With (1)

如果: Gerrit 依次先审核 440 交叉测试1 441 交叉测试2?

192.168.1.49:9999/#/status:merged

All My Projects People Plugins Documentation status:merged Search Gerrit

Open Merged Abandoned

Search for status:merged

ID	Subject	Status	Owner	Project	Branch	Updated	Size	CR	V
441	交叉测试2	Merged	gerrit	dev_group/test	master	in the future		✓	✓
440	交叉测试1	Merged	gerrit	dev_group/test	master	in the future		✓	✓
439	Revert "hello world to c/c2.txt"	Merged	gerrit	dev_group/test	master	45 minutes ago		✓	✓

Gerrit 合并成功

再看原来的 437, 显示 cannot merge

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Open Merged Abandoned

Change 437 - Submitted, Merge Pending  
123 to a/a.txt  
Change-Id: I7bc22e93cabb55a086bc5aabfcea2b6e8e7558b0

Reply... Patch Sets (1/1) Download

Owner prize-bs14  
Reviewers gerrit x Add...  
Project dev\_group/test  
Branch master  
Topic  
Strategy Merge if Necessary  
Updated in the future  
Cannot Merge  
Cherry Pick Rebase  
Abandon Follow-Up Submit

Related Changes (3)  
123 to b/b.txt  
123 to a/a.txt  
change first line of file1

Author prize-bs14 <prize-bs14@szprize.com> Jun 9, 2017 4:52 PM  
Committer prize-bs14 <prize-bs14@szprize.com> Jun 9, 2017 4:52 PM  
Commit a10fbd914e5395cb3c9504623313f3469ff429be  
Parent(s) 6e5279f7f9e09594b832709cb2bc41d0e0b2c027  
Change-Id I7bc22e93cabb55a086bc5aabfcea2b6e8e7558b0

Code-Review +2 gerrit  
Verified +1 gerrit

结论: 同时编辑工程里面的文件进行多次 commit, 可能存在文件交叉编辑的情况下, 存在冲突!