**Git工作流程**

一般地，先在本地修改代碼，修改完成之後需要先commit進行保存，然後fetch遠端最新的代碼，merge本地的代碼和遠端的代碼，然後push到遠端服務器。

**文件的三种状态**

Committed/staged/modified.

取消暂存，git reset HEAD filename

**Git checkout某个分支的某个文件**

Git checkout SHA filename

Git checkout *branch\_name* filename

**Git diff**

**比较两个分支的某个相同文件：**

HEAD是当前分支上最近一次commit的reference。

HEAD^1等同于HEAD^，表示当前分支的parent。某个分支可能会有多个parent，HEAD^1表示第一个parent。

HEAD~2，表示当前分支的grandparent.

G H I J

\ / \ /

D E F

\ | / \

\ | / |

\|/ |

B C

\ /

\ /

A

A = = A^0

B = A^ = A^1 = A~1

C = A^2 = A^2

D = A^^ = A^1^1 = A~2

E = B^2 = A^^2

F = B^3 = A^^3

G = A^^^ = A^1^1^1 = A~3

H = D^2 = B^^2 = A^^^2 = A~2^2

I = F^ = B^3^ = A^^3^

J = F^2 = B^3^2 = A^^3^2

**Git origin和master的關係**

Origin可以認為是遠端資料庫的簡稱，可以修改成別的名字。

$ git remote -v

origin ssh://git@stash.micron.com:7999/boreas/boreas-fw.git (fetch)

origin ssh://git@stash.micron.com:7999/boreas/boreas-fw.git (push)

Master是指資料庫的一個分支的名稱。

**暫存當前的修改**

突然有緊急任務出現，需要切換到另一分支上去工作，但是當前的修改又不足以commit，這時需要暫存當前的修改。

$**git stash**

Saved working directory and index state WIP on 5129: 54b8fa4 Change APP\_ID\_VS\_GET\_FTL\_TABLE\_ PAGE to APP\_ID\_FTL\_INTERNAL\_VS, in case the future need to handle more and more VS command r esponse from NAND. Note: Please save vs\_cmdType to global systag variable before sending com mand to NCP.

HEAD is now at 54b8fa4 Change APP\_ID\_VS\_GET\_FTL\_TABLE\_PAGE to APP\_ID\_FTL\_INTERNAL\_VS, in case the future need to handle more and more VS command response from NAND.

Git stash list可以查看當前所有的暫存。

$**git stash list**

stash@{0}: WIP on 5129: 54b8fa4 Change APP\_ID\_VS\_GET\_FTL\_TABLE\_PAGE to APP\_ID\_FTL\_INTERNAL\_VS, in case the future need to handle more and more VS command response from NAND.

stash@{1}: WIP on 5130: 3d35b28 Allocate a new APP\_ID to vs command (VS\_GET\_FTL\_TABLE\_PAGE) to handle response from NAND.

Git stash apply可以把當前的暫存從堆棧中取出，恢復工作現場。Git stash drop可以丟棄暫存。Git stash pop可以在恢復現場之後丟棄暫存。

$**git stash apply stash@{0}**

# On branch 5129

# Changed but not updated:

# (use "git add <file>..." to update what will be committed)

# (use "git checkout -- <file>..." to discard changes in working directory)

#

# modified: firmware/apps/sabrepro/vs/main.c

#

no changes added to commit (use "git add" and/or "git commit -a")

**獲取遠端最新的更新**

Git fetch origin 獲取遠端分支的最新數據

**合併遠端數據到本地**

git checkout *local branch name;*

git merge origin/*remote branch name*

如果在merge過程中出現衝突，需要手動消除衝突，然後git add添加到跟蹤，然後git commit提交。

**變基**

Git checkout*branch name*

Git rebase *other branch name*

**放棄修改，回到ff236d767c9提交時的樣子**

Git reset –hard ff236d767c9

**採用—soft可以放棄commit**

**放棄對某個文件的修改**

Git checkout -- *filename*

**取消暫存**

Git reset HEAD *file1name file2name*

**Git使用一段時間之後，變慢，可以使用git gc –prune來清除重複的文件。**

**從遠端庫克隆firmware文件**

git clone ssh://git@stash.micron.com:7999/boreas/boreas-fw.git

**查看远端的所有分支**

Git branch –a

**Checkout 远端的分支**

git checkout -b performance origin/feature/BOREAS-4527-write-path-performance-integration

**跟踪远端分支**

Git branch –track origin/feature/BOREAS-4527-write-path-performance-integration

**查看本地分支的远端分支名称**

Git branch –vv

**git 提交本地分支到遠端**

git push origin 5130: feature/BOREAS-5129-add-vs-command-load\_ftl\_table\_page

**git 刪除遠端分支，本地分支名字為空即刪除遠端分支**

git push origin :feature/BOREAS-5130-add-vs-command-load\_ftl\_table\_page

git diff

cp /mnt/fmnfsbj01/resource/patch/\*.diff .

cp /mnt/fmnfsbj01/resource/patch/NAND/\*.diff .

查看vnc已有的session

Vncserver –list

创建vnc session

創建

Gdb 實用

制定程序運行的參數 set args xxxx