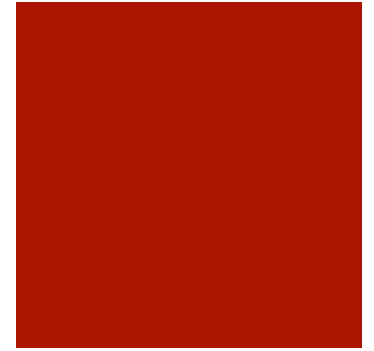




Lab2 Basic File Server

Xie Chenning@ipads

Information



- TA

Chenning Xie

xiechenny@sjtu.edu.cn

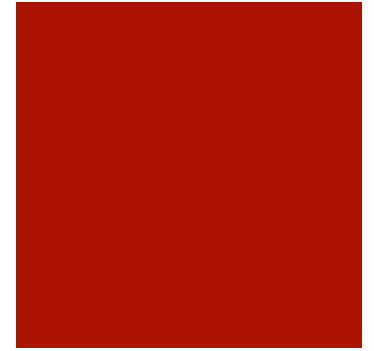
xie.chenny@gmail.com

Lab2 - Basic Server



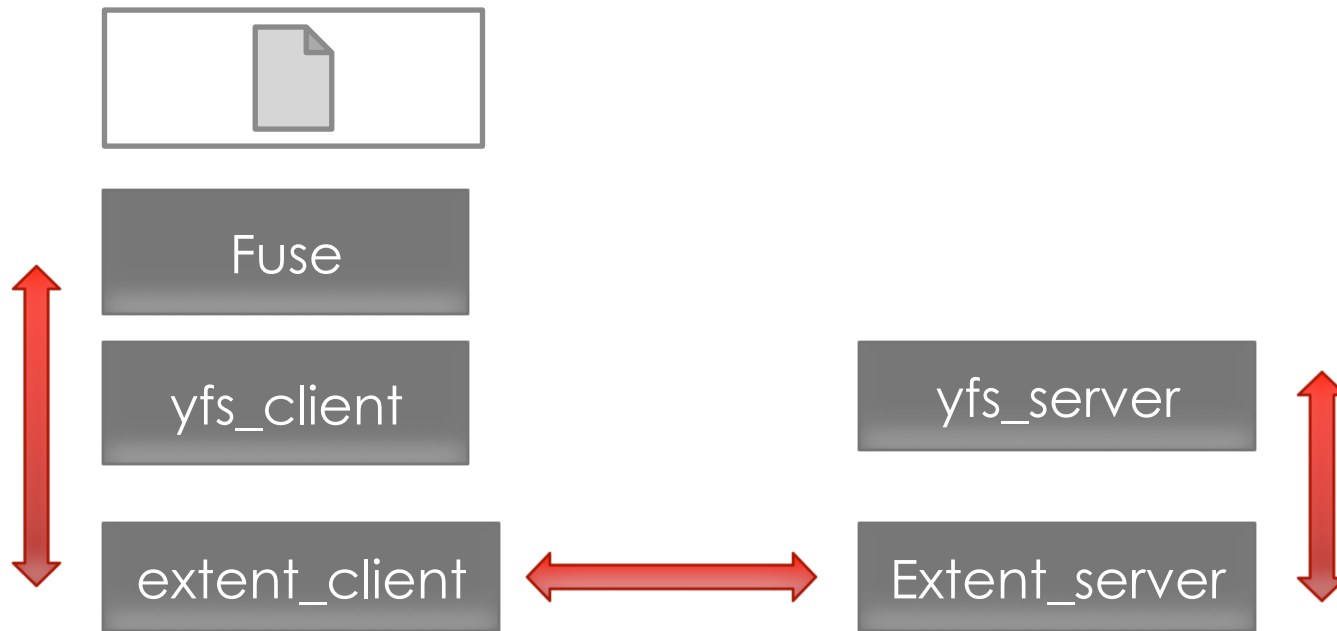
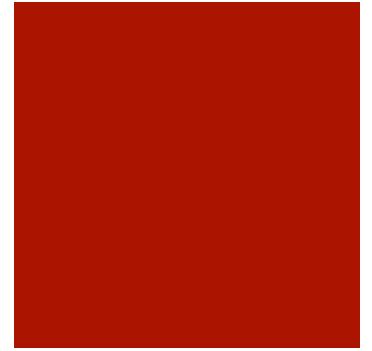
- Function:
 - CREATE/MKNOD, LOOKUP, and READDIR
 - SETATTR, WRITE and READ

Lab2 - Basic Server

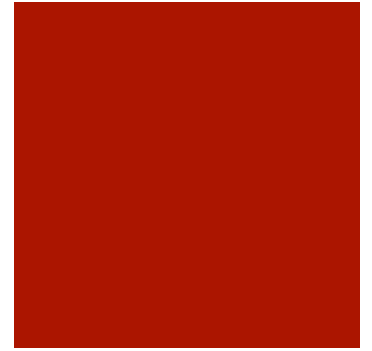


- Fuse
- Extent client
- Extent server

Architecture

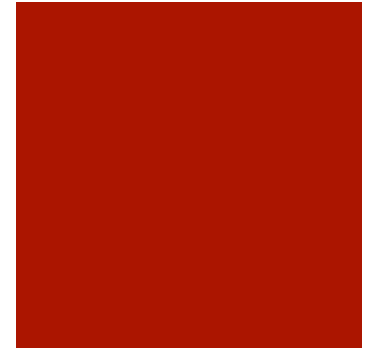


Fuse



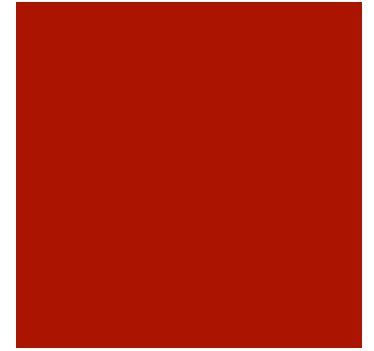
- Install fuse library
 - Download zip file as website shows
 - Configure and Make install
- Provide the interface to communicate between user input and handling methods of your yfs client

yfs_client



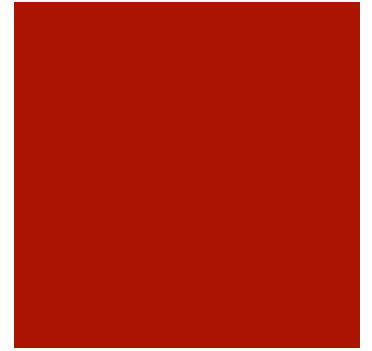
- `yfs_client.cc/h`
- Make file, read attribute, lookup dir... and so on
- Accept user command through fuse and handle the command with store the content to server

Intermediate interface



- Extent client & Extent server:
 - Communicate by the RPC protocol
 - Transfer request between yfs_client and yfs_server

yfs_server



- `yfs_server.cc/h,extent_smain.cc`
- Key-Value store:
 - `put(key,value)`, `get(key)`, `getattr(key)`,
and `remove(key)`

Notice

- Hand-in procedure

ftp://public.sjtu.edu.cn/upload/
username: xiechenny

See the website :

[http://ipads.se.sjtu.edu.cn/courses/ads/
labs/lab2.shtml](http://ipads.se.sjtu.edu.cn/courses/ads/labs/lab2.shtml)

- Deadline: 2012-10-15 22:00

Thank you

