## Output file

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1. when the indexserver is running, it will output this results as following.

```
zns-MacBook-Pro:SourceCode zn$ ant runserver
Buildfile: /Users/zn/Desktop/Decentralizedfilesharesystem/SourceCode/build.xml

compile:
    [javac] /Users/zn/Desktop/Decentralizedfilesharesystem/SourceCode/build.xml:21: warning: 'i
    [javac] Compiling 11 source files to /Users/zn/Desktop/Decentralizedfilesharesystem/SourceC
    [javac] Note: Some input files use unchecked or unsafe operations.
    [javac] Note: Recompile with -Xlint:unchecked for details.

makejar:
    [jar] Building jar: /Users/zn/Desktop/Decentralizedfilesharesystem/SourceCode/target/jar/

runserver:
    [java] Server is established!

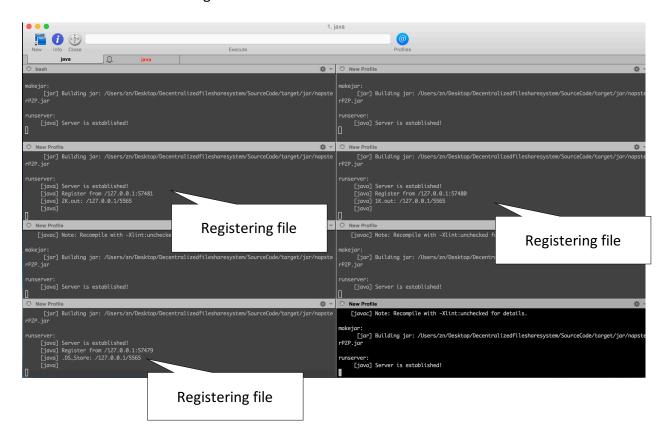
Running indexserver
    successfully
```

2. when the client is running, it will output this results as following.

```
MacBook-Pro:SourceLoae zns ant runpee
Buildfile: /Users/zn/Desktop/Decentralizedfilesharesystem/SourceCode/build.xml
   [javac] /Users/zn/Desktop/Decentralizedfilesharesystem/SourceCode/build.xml:21: warning: 'includeantruntime' wa
sspath=last; set to false for repeatable builds
   [javac] Compiling 11 source files to /Users/zn/Desktop/Decentralizedfilesharesystem/SourceCode/target/classes
   [javac] Note: Some input files use unchecked or unsafe operations.
   [javac] Note: Recompile with -Xlint:unchecked for details.
nakejar:
    [java]
    [java] '
                                Peer Operation Command
    [java] *
    [java] * 1.SEARCH
                           (lookup the file position)
    [java] * 2.OBTAIN
                           (download the file)
    [java] * 2.TESTOTHER (test the register and search performance)
    [java] * 3.TESTOBTAIN (test the obtain performance)
    [java] * 4.FILING
                           (generate test file)
                                                                             Main Operation
    [java] * 5.EXIT
                           (exit the peer)
    [java] ************************
                                                                                Commands
    [java] Peer ID:/127.0.0.1/5568
    [java] Nov 02, 2015 11:44:53 PM org.apache.commons.vfs2.impl.StandardFileSystemManager info
    [java] INFO: Using "/var/folders/bw/gdxvb39x3fd23vw2lr2tnn6h0000gn/T/vfs_cache" as temporary files store.
    [java] Input the command:
```

Input the command

3. when we copy several files into fileserver which is also the client, we can get the outputs from the indexservers as following.



4. when it executes the search command, we can get outputs in the client as following.



5. when it executes the obtain command, we can get outputs in the client as following.

Input obtain command

```
obtain

[java] Filename:

1K.out

[java] 1K.out is found on [/127.0.0.1/5565]

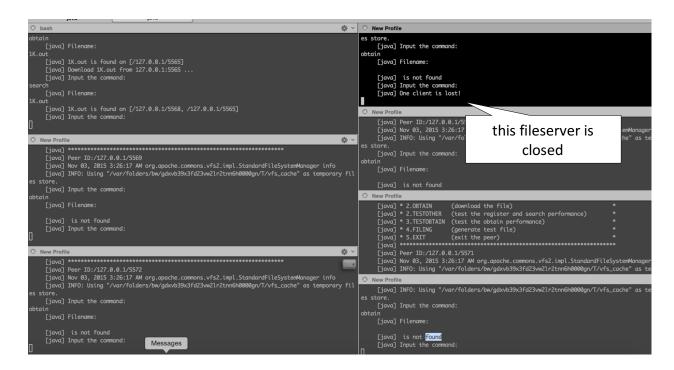
[java] Download 1K.out from 127.0.0.1:5565 ...

[java] Input the command:

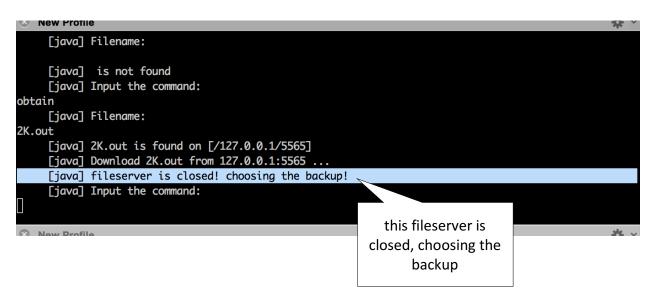
File is downloaded from this fileserver successfully
```

6.In order to prove the correctness of the obtain command, we use the search command to lookup if the file is downloaded into this fileserver executing the obtain command and which ID is /127.0.0.1/5568. Then we get the outputs in this fileserver as following.

7. In order to prove that the file replication is working, we just close a fileserver whose ID is /127.0.0.1/5565. And if we obtain the file 2K.out successfully, it proves that the file replication is working. Because the file 2K.out is registered from the fileserver /127.0.0.1/5565, which means this file is not in other fileservers except the fileserver /127.0.0.1/5565. When we close this fileserver, we can get the outputs.



Then we obtain the file 2K.out in any client. We can get the outputs as following.



Then we search this file to prove that it obtains this file successfully.

```
search
[java] Filename:

2K.out
[java] 2K.out is found on [/127.0.0.1/5565, /127.0.0.1/5569]
[java] Input the command:

File is found in this fileserver
```

this file is in the fileserver /127.0.0.1/5569 which obtains this file. It proves that the fileserver /127.0.0.1/5569 obtains this file successfully. And it also proves that our replication for files works well.

8.In terms of the test command and filing command, I will present the outputs in the performance document.