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<JSTORM>

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(RMI)

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### Content Information

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Abstract	
	RMI
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## (RMI)

RMI(Remote Method Invocation)

( )

RMI

가

. RMI

RMI

1. , , .
2. .
3. RMI .(rmic)
4. .class .
5. registry .
6. .
7. .

가  
가

JDK 1.1

NT 4.0

가 .

# RMI

RMI

public  
URL  
(URL-based naming scheme)  
(name registry service)  
rmi://localhost/Lookupserver

RMI

TCP/IP (serialization)

RMI

가

// Lookup.java

```
import java.rmi.*;
```

```
public interface Lookup extends Remote {  
    public String findInfo(  
        String info) throws RemoteException;  
}
```



```
public String findInfo(String info)
{
    if (info == null)
        return null;

    info = info.toLowerCase();
    int n = save.size();
    for (int i = 0; i < n; i++) {
        String dbs = (String)save.elementAt(i);
        if (dbs.toLowerCase().indexOf(info) != -1)
            return dbs;
    }

    return null;
}

public static void main(String args[])
{
    try {
        RMISecurityManager security =
            new RMISecurityManager();
        System.setSecurityManager(security);
        String db = args[0];
        LookupServer server = new LookupServer(db);
        Naming.rebind("LookupServer", server);
        System.err.println("LookupServer ready...");
    }
    catch (Throwable e) {
        System.err.println("exception: " + e);
        System.exit(1);
    }
}
```

findInfo

Smith, Joan 204-9987

Jones, Milton 898-9749

Brown, Gertrude 598-1265

LookupServer java.rmi.server.UnicastRemoteObject  
Lookup .

가 .

## ( Setting up a security manager )

main .  
.RMI 가  
.class

RMI .  
.class 가

.class .class RMI

```
public class LookupServer_Stub  
    extends java.rmi.server.RemoteStub  
    implements Lookup, java.rmi.Remote { ... }
```

```
public class LookupServer_Skel implements  
    java.rmi.server.Skeleton { ... }
```

```
javap -c LookupServer_Stub
```

## TCP/IP

```
// LookupClient.java

import java.rmi.*;
import java.rmi.server.*;

public class LookupClient {
    public static void main(String args[])
    {
        try {
            RMISecurityManager security =
                new RMISecurityManager();
            System.setSecurityManager(security);
            String host = "localhost";
            String server = "LookupServer";
            String name = "rmi://" + host + "/" + server;
            Lookup look_obj = (Lookup)Naming.lookup(name);
            String results = look_obj.findInfo(args[0]);
            if (results == null)
                System.err.println("*** not found ***");
            else
                System.out.println(results);
        }
        catch (Throwable e) {
            System.err.println("exception: " + e);
            System.exit(1);
        }
    }
}
```

. URL registry

Naming.lookup  
URL

rmi://localhost/LookupServer

localhost 가  
(loopback) ( IP address = 127.0.0.1 )

lookup.java , LookupServer.java , LookupClient.java

javac Lookup.java

javac LookupServer.java

javac LookupClient.java

## RMI

RMI (rmic)

rmic LookupServer

LookupServer\_Skel.class LookupServer\_Stub.class

## .class

```
LookupServer_Stub.class) (Lookup.class , LookupClient.class ,
가
. ( Lookup.class , LookupServer.class ,
LookupServer_Skel.class LookupServer_Stub.class) public
가
가 PC C
C:\ .
```

## Registry

```
registry
registry
. JDK1.1
registry
Start rmiregistry rmiregistry&
rmiregistry
. rmiregistry
.
.
java LookupServer database_name (Window )
java LookupServer database_name & (Unix )
C:\PHONE.TXT 가
java LookupServer C:\PHONE.TXT
OS
java LookupServer ./Phone.txt & &
```

java LookupClient smith

“smith”

( RMI )  
Java-To-Java  
. RMI 가

## JAVA 2

JDK1.2 deprecate  
1.1( rmic -vcombat 1.2 1.1 )  
rmic . JDK1.2  
. JDK1.2  
rmic -v1.2