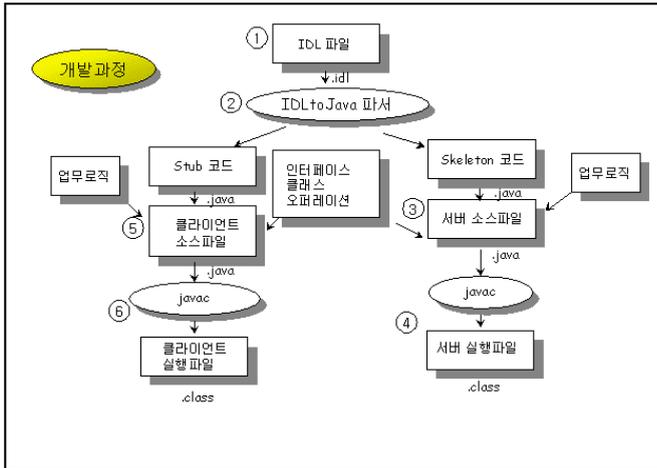


CORBA Java

CORBA Java

CORBA Java

CORBA C++



[3] CORBA Java (3.gif)

가 IDLtoJava 가 C++ stub, skeleton, >ImplBase skeleton stub C++ main() main() ,

1. IDL

CalcuObject 가 IDL Calculator AddEnd()
가 , CalcuObject

// Calculator.idl

```

module Calculator
{
    interface CalcuObject
    {
        //EndVal
        long AddEnd(in long EndVal);
    };
};

```

2. IDL stub/skeleton


```

// CalcuObjectImpl.java

import Calculator.*;

class CalcuObjectImpl extends _CalcuObjectImplBase
{
    CalcuObjectImpl()
    {
        super();
    }

    CalcuObjectImpl(String obj_name)
    {
        super(obj_name);
    }

    //EndVal
    public int AddEnd(int EndVal)
    {
        int Sum = 0;
        for(int i=0; i <= EndVal;i++)
        {
            Sum += i;
        }
        return Sum;
    }
}

```

```

4.    main()
main()    ORB                . (1), (2)
         ORB    BOA                . (3), (4)
         BOA                . (5)
         GUI                . (6)
                                . (5)
                                CORBA

```

```

//Server.java

import Calculator.*;
import org.omg.CORBA.*;

class Server
{
    public static void main(String[] args)
    {
        try
        {
            //ORB
            ORB orb = ORB.init(); //Visibroker 3.3
            ORB orb = ORB.init(args, null); //Visibroker 3.4 -----(1)
            //BOA
            BOA boa = orb.BOA_init();//Visibroker 3.3
        }
    }
}

```

```

//Visibroker 3.4
BOA boa = ((com.visigenic.vbroker.orb.ORB)orb).BOA_init();----(2)
CalcuObjectImpl impl = new CalcuObjectImpl("cal");      ----(3)
boa.obj_is_ready(impl);                                  ----(4)

// Wait for incoming requests
System.out.println("          ...");
boa.impl_is_ready();                                    ----(5)
}
catch(SystemException e)                               ----(6)
{
    System.err.println("          : " + e);
}
}
}

```

5.



// Client.java

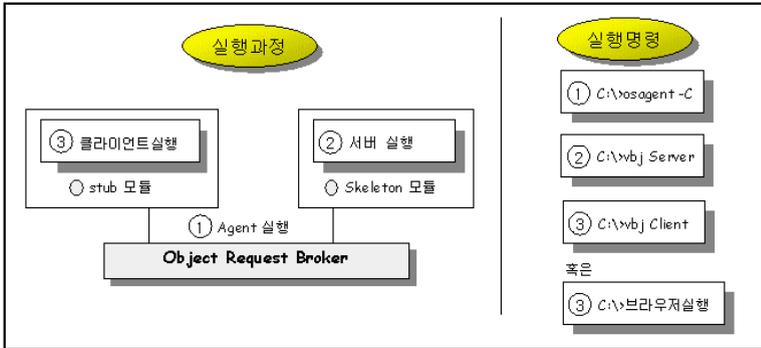
```

//stub
import Calculator.*;
// CORBA
import org.omg.CORBA.*;
import java.io.*;

public class Client
{
    public static void main(String[] args)
    {
        try
        {
            //ORB
            ORB orb = ORB.init(args,null);          ----(1)
            //CalcuObject
            CalcuObject cal = CalcuObjectHelper.bind(orb,"cal"); ----(2)
            BufferedReader stdIn = new BufferedReader(new InputStreamReader(System.in));
            String tempString;
            System.out.println("          ?(          :.)");
            while ((tempString = stdIn.readLine()) != null)
            {
                if (tempString.equals("."))
                    break;
                int Sum = 0;
                int EndVal = 0;
                Integer Int = new Integer(0);
                EndVal = Int.valueOf(tempString).intValue();
                Sum = cal.AddEnd(EndVal);          ----(3)
            }
        }
    }
}

```


6.



[4] CORBA Java (4.gif)

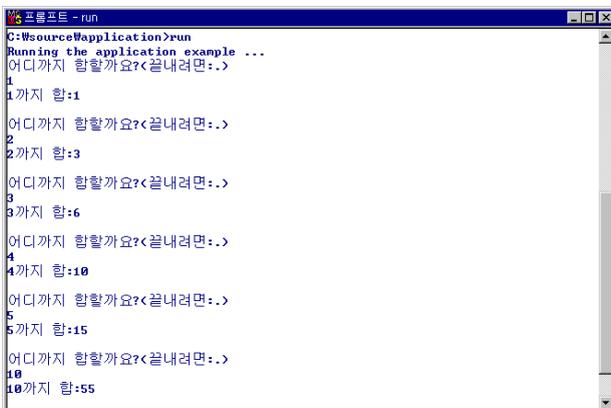
```
prompt>vbjc *.java
```

Agent

```
prompt>osagent -C  
prompt>start vbj Server
```

...
가

```
prompt> vbj Client
```



[5] (5.gif)

CORBA Java

가

1. IDL CORBA Java Calculator.idl Server.java,
CalcuObjectImpl.java

2. CORBA Java java.applet.Applet , ORB

CORBA
AddButton_actionPerformed() ORB

```
//Client.java
import java.awt.*;
import java.awt.event.*;
import java.applet.*;
import Calculator.*;
import org.omg.CORBA.*;

public class Client extends Applet
{
    //
    Button AddButton = new Button();
    TextField AddEndField = new TextField();
    TextField SumField = new TextField();
    Label label1 = new Label();
    Label label2 = new Label();
    FlowLayout flowLayout = new FlowLayout();

    //CORBA
    ORB orb = null;
    CalcuObject cal = null;

    public void init()
    {
        try
        {
            this.setSize(new Dimension(289, 46));
            AddButton.setLabel(" ");
            AddButton.addActionListener(new java.awt.event.ActionListener() {
                public void actionPerformed(ActionEvent e) {
                    AddButton_actionPerformed(e);
                }
            });
        }
    }
}
```

```

    }
    });
    SumField.setEditable(false);
    label1.setText(" ");
    label2.setText(" .");
    this.setLayout(flowLayout);
    this.add(AddEndField, null);
    this.add(label1, null);
    this.add(SumField, null);
    this.add(label2, null);
    this.add(AddButton, null);

    //ORB
    //orb = ORB.init(this); //Visibroker 3.3
    orb = ORB.init(this, null); //Visibroker 3.4
    //CalcuObject
    cal = CalcuObjectHelper.bind(orb, "cal");
}
catch (Exception e)
{
    System.err.println(e);
}
}

void AddButton_actionPerformed(ActionEvent e)
{
    String tempString = AddEndField.getText();
    int Sum = 0;
    int EndVal = 0;
    Integer Int = new Integer(0);
    EndVal = Int.valueOf(tempString).intValue();
    Sum = cal.AddEnd(EndVal);
    SumField.setText(tempString.valueOf(Sum));
}
}

```

3. HTML

HTML `<applet></applet>` 가 code Java 가

```

<HTML>
<HEAD>
<CENTER><H4> </H4></CENTER>
</HEAD>
<BODY>
<CENTER>
<APPLET
CODEBASE = "http://127.0.0.1:15000/"
CODE = "Client.class"
NAME = "Applet"
WIDTH = 289
HEIGHT = 50
HSPACE = 0
VSPACE = 0

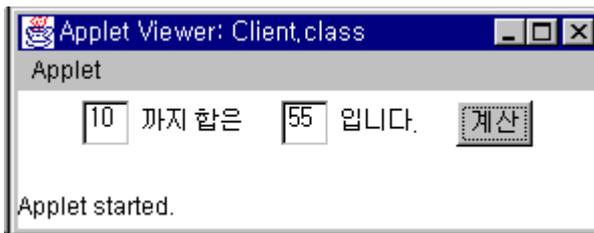
```

```
ALIGN = middle
>
<param name=org.omg.CORBA.ORBClass value=com.visigenic.vbroker.orb.ORB>
</APPLET>
</CENTER>
</BODY>
</HTML>
```

4.

```
prompt>vbjc *.java
prompt>osagent -C
prompt>start vbj Server
prompt>start gatekeeper
```

```
prompt> appletviewer Calculator.html
```



[6] (6.gif)

127.0.0.1

IP Address

Calculator.html