

IDL

CORBA

가

IDL

COM/DCOM

IDL

, CORBA

Wizard

IDL

가

, 'idl'

'idl'

IDL

가

CORBA

IDL

IDL

.IDL

- (module, interface, (_))

, ISO Latin-1

- test interface Test

- (Comment) C, C++, Java 가 /* */, //

(interface)

-

CORBA

(attribute)

(operation)

////////////////////////////////////

!! //////////////////////////////////////

[]

(Object)

?

C++

(Class)

, IDL

, Java

[]

?

```

Person 가 , Person
' , ' Person
' , ' 가
[ ]
,
(Object Implementation)
, CORBA
BOA
,
,
[ ]
(attribute) (operation) 가 , C++ Java
(Member Data) (Member Function)
, property,
behavior, method,
////////////////////////////////////
C++ Java
interface ,
C++ Java (;)
IDL , (型) ,
Sample1.idl 가
exception UserException
{
};
interface Sample
{
//long age; // attribute 가
attribute long age;

```

```

    readonly attribute string name;
    string oper1(in string arg1, out string arg2, inout string arg3);
    oneway void oper2();
    void oper3() raises (UsrException)
};

```

IDL 가 IDL #ifndef, #define, #endif Preprocess
ANSI C++ 가 . typedef
const 가 .

```

#ifndef _KEYWORD_INCLUDED
#define _KEYWORD_INCLUDED

#include "SimpleType.idl"

interface Sample
{
    //
    struct Point
    {
        double x;
        double y;
    };

    typedef sequence<Point> Points;
    const short MAXPOINTS= 100;
};

#endif

```

, 가 (가).
attribute operation 가 .
attribute operation 가 , IDL
attribute operation . (2), (3)
A i oper() 가
, (1) C 가 A B
C++ Java .

```

interface A
{
    attribute long l;
    void oper( );
};
interface B
{
    // attribute long l; // -----(1)
};
interface C:A,B
{
    // attribute long l; // -----(2)
};

```

```
// void oper (); // -----(3)
```

```
};
```

● attribute

attribute operation . attribute
 read-write , IDL attribute
 set()/get() . attribute attribute
 가 , get() . attribute read-only

```
interface Sample
{
    //long age; //
    attribute long age;
    readonly attribute string name;
};
```

● operation

operation 가 method , method , parameter
 (in, out, inout), 가

```
interface Sample
{
    string oper(in string arg1, out string arg2, inout string arg3);
};
```

operation 가 / .
 in , out , inout
 가 (Java out inout Holder
), C++
 가 .
 oneway 가 가 . 가 가 ,
 method oneway . oneway 가
 , raises 가 .

```
interface Sample
{
```

```

    oneway void oper();
};

```



CORBA

```

    (
        Name Location
    )
    ,
    가

```

```

interface Sample
{
    oneway void oper() context("Name", "Location");
};

```

```

    ("*")
    , Name*
Name
    가
    ,
    가
    ,
    가

```

● interface struct

```

    interface attribute operation
    ,
    가
    operation
interface
operation 가
    Java
    IDL
    가
    CORBA
    interface struct
    interface CORBA
    CORBA
    가
operation 가
    struct

```

```

interface A
{
};

```

```

interface B
{
    attribute long l;
};

```

```

struct C
{

```

```

        long l;
};

interface D
{
    void oper();
};

interface E
{
    attribute long l;
    void oper();
};

```



operation 가 CORBA 가 operation raises

```

exception UserException
{
};

interface Sample
{
    void oper() raises (UserException)
};

```

(module)

IDL (scope) A::B::C
 가 C D::C 가
 (::)
 IDL 가
 (nested) 가
 , , , typedef
 , , 가

```

module A
{
    module B
    {
        interface C

```


IDL 가 interface struct, union, enum, array, string, sequence
 CORBA CORBA3.0

	interface	Simple types, struct, union, enum, array, string, sequence
operation	가	가



IDL C, C++, Java

1)

int IDL

```
//
long l;
long long ll;
short s;
unsigned long ul;
unsigned long long ull;
unsigned short us;
```

```
//
float f;
double d;
long double ld;
```

2) (char, wchar)
 CORBA 2.0

wchar (unicode) 가 octet Java C++
 ISO Latin-1 가) (가

```
//
```

```
char c;
wchar wc;
```

3) (boolean)
C C++, Java

```
//
boolean b;
```

4) (octet)

가

```
//
octet o;
```

5)any C++ void* , any void*

```
//any
any a;
```

Data Type		
	long	가 $-.2^{31} \sim 2^{31} - 1$
	long long	가 $-.2^{63} \sim 2^{63} - 1$
	short	가 $-.2^{15} \sim 2^{15} - 1$
	unsigned long	가 $.0 \sim 2^{32} - 1$
	unsigned long long	가 $.0 \sim 2^{64} - 1$
	unsigned short	가 $.0 \sim 2^{16} - 1$
	float	IEEE
	double	IEEE
	long double	IEEE
	char	ISO Latin-1
	wchar	ISO Unicode
	boolean	TRUE FALSE
	octet	8
any	any	

6)

```
interface SimpleType
{
    //
    attribute long l;
    attribute long long ll;
    attribute short s;
```

```

attribute unsigned long ul;
attribute unsigned long long ull;
attribute unsigned short us;

//
attribute float f;
attribute double d;
attribute long double ld;

//
attribute char c;
attribute wchar wc;

//
attribute boolean b;

//
attribute octet o;

//any
attribute any a;
};

```



Data Type		
	struct	
	union	
	enum	가
	sequence	
	string	8
	wstring	unicode

1) (struct)

C++ (Syntax) 가 . C

```

//
struct Point
{
    double x;
    double y;
};

```

2) (union)

. IDL C C++ switch
switch(short) short
(discriminator)

```

//

```

```
union DataItem switch(char)
{
    case 'c': long count;
    case 'a': double amount;
    default: char initial;
};
```

3) (enum)
가

```
//
enum Grade {A, B, C, D};
```

4) (sequence)
가

```
sequence stub skeleton , unbounded sequence bounded
bounded , 가 bounded
가
```

```
//
sequence<long> Score1;
sequence<unsigned long, 10> Score2;
```

5) (string, wstring)
8

```
ISO Latin-1 , wstring
가
bounded , unbounded
sequence<char> string 가 ?
(null-byte ) string
sequence<char> 가 , sequence<char>
string
```

```
//
string Name1;
string<10> Name2;
wstring Name3;
wstring<10> Name4;
```

6) IDL 가 C C++ 가

```
//
char Course1[10];
```

```
char Course2[10][10];
```

7)

```
module ComplexType
{
    //
    struct Point
    {
        double x;
        double y;
    };

    //
    union DataItem switch(char)
    {
        case 'c': long count;
        case 'a': double amount;
        default: char initial;
    };

    //
    enum Grade {A, B, C, D};

    //
    typedef sequence<long> Score1;
    typedef sequence<unsigned long, 10> Score2;

    //
    typedef string Name1;
    typedef string<10> Name2;
    typedef wstring Name3;
    typedef wstring<10> Name4;

    //
    typedef char Course1[10];
    typedef char Course2[10][10];
};
```

ID

. OMG

ID

가

ID

(IDL): :

()

()

