

Amazing tools suite in CORBA world

Agent

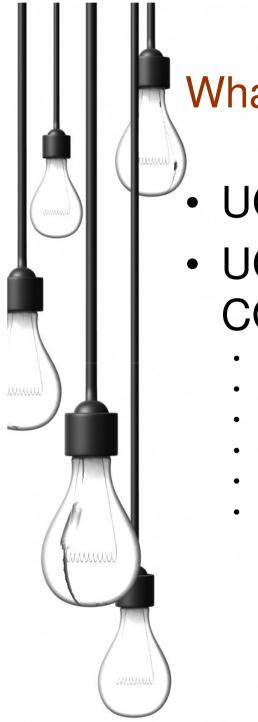
• UCS

- What's UCS
- Simulate CORBA client
- Simulate CORBA server
- Organize business testing flow
- UCS performance/loading test
- UCS Extendable plugin
- UCS test notify application
- UCS test naming application
- UCS utility

Agent

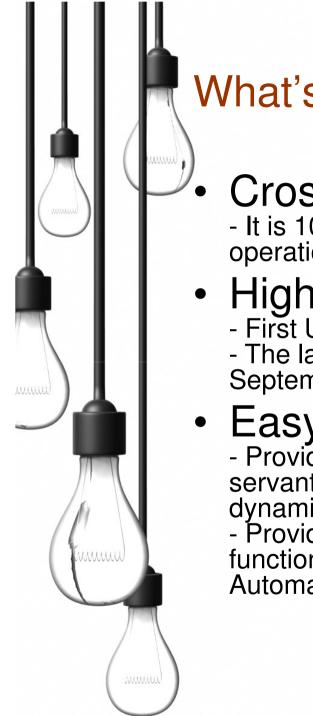
• UCS

- UCS Naming browser
- UCS Notify browser
- UCS GIOP interceptor
- UCS generate run able java code
- UCS support Orbix6 with SSL
- UCS change IOR hostname &port
- UCS IDL browser
- UCS configuration
- Summary



What's UCS?

- UCS is a CORBA tools suite
- UCS can be used to test almost all CORBA applications
 - Orbix6
 - Orbix3
 - ORBacus
 - TAO
 - JacORB
 -



What's UCS?

Cross platform

- It is 100% pure java based, so can be executed on any operation system with JRE1.4.x or later

• High maturity

- First UCS version (ucs v1.0.0) is released in July, 2007.

- The latest UCS version (ucs v1.3.1) is released in September, 2011.

Easy to extend

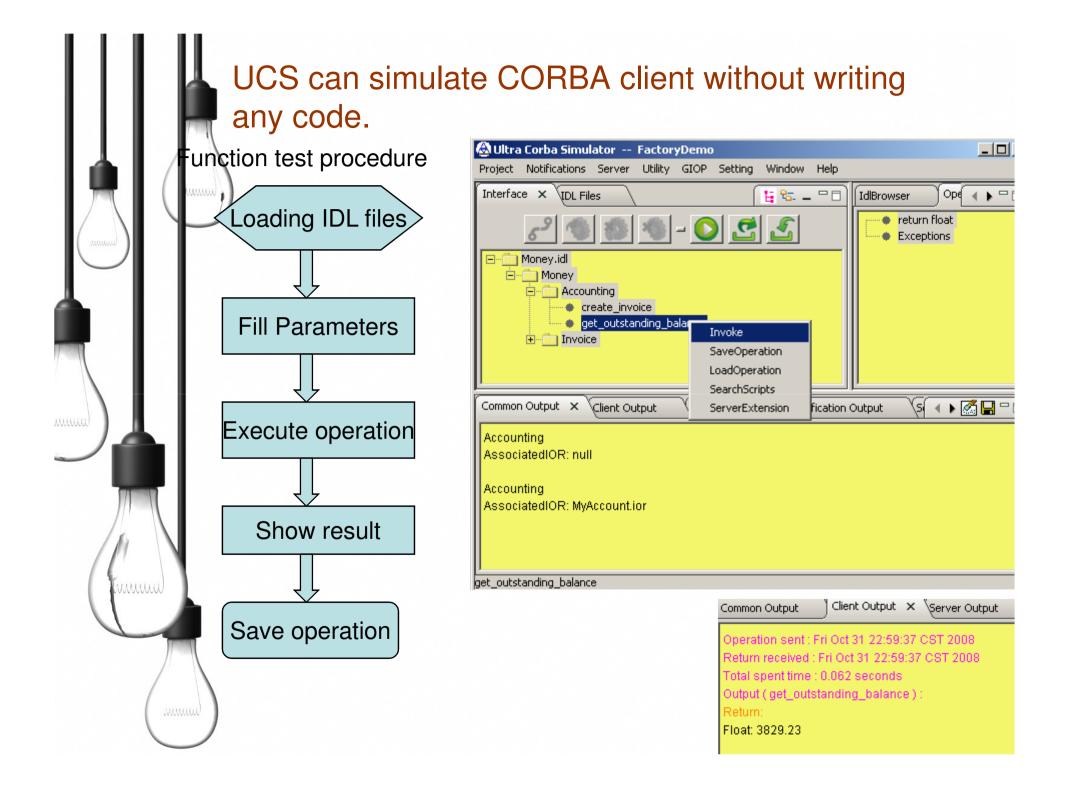
- Provide powerful Servant extension interface, so that the servant's response could not only be fixed value, but also dynamic value based on client's input.

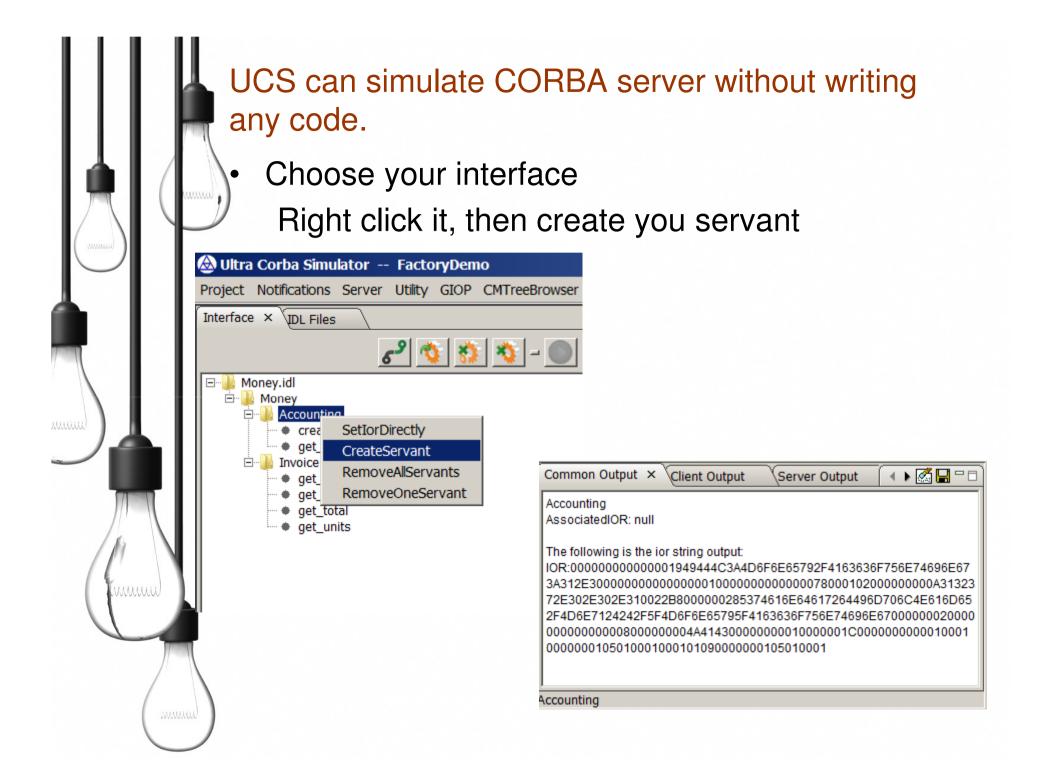
- Provide powerful plug-in interface, so that any useful function could be developed by customer during Automatic Test case execution

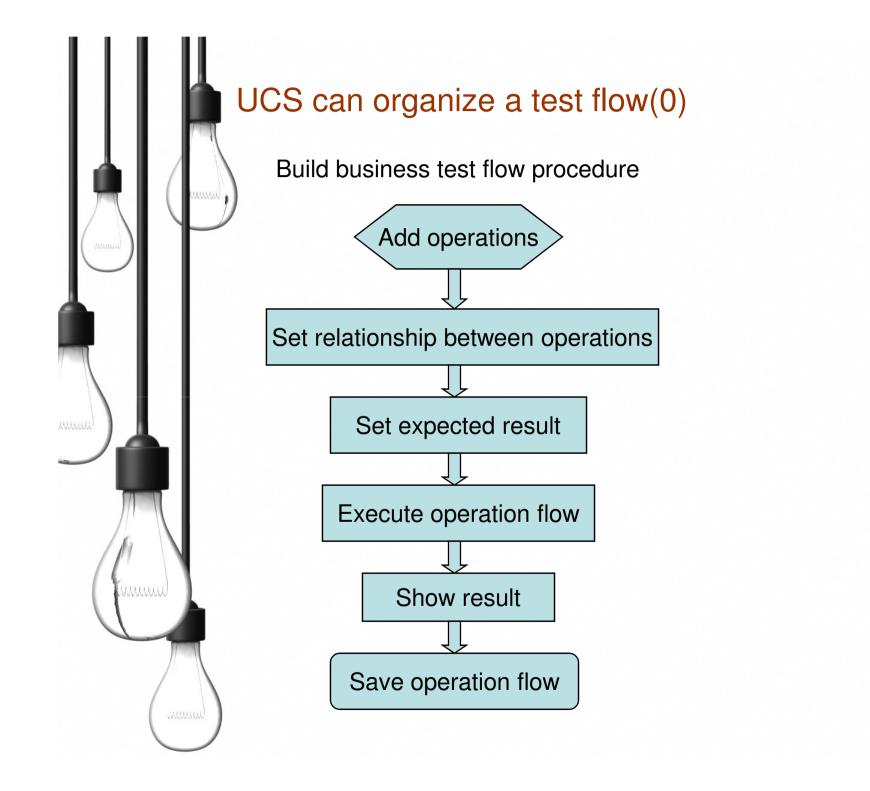
What's UCS?

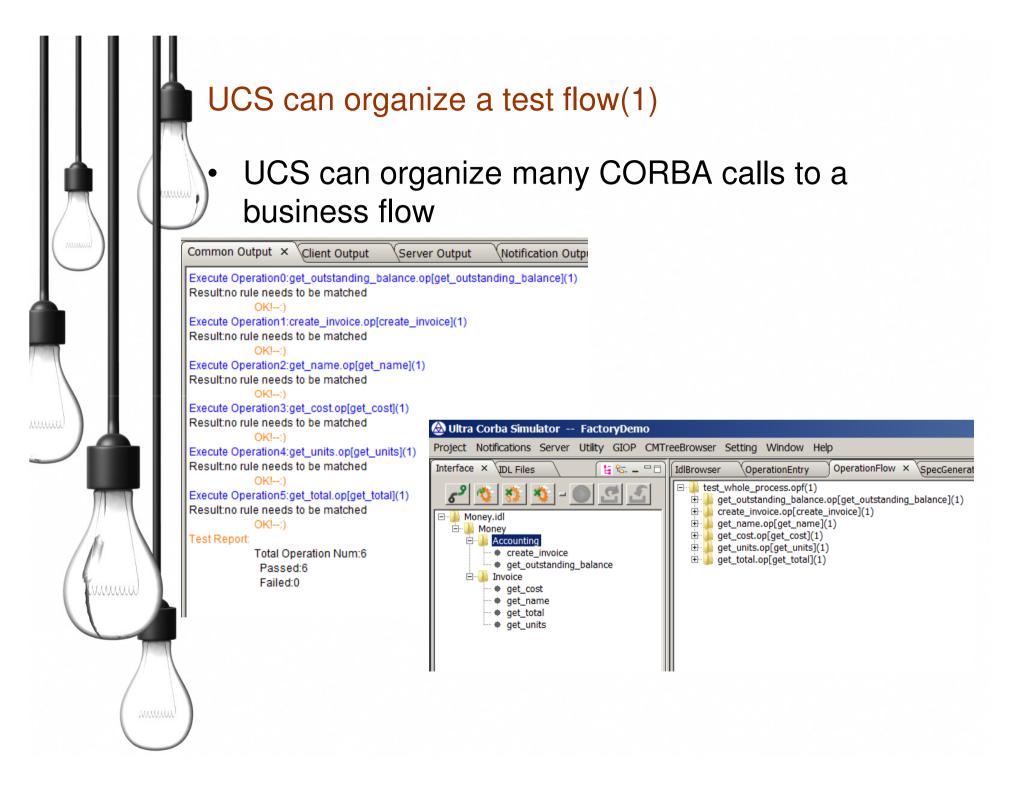
High performance and independence - It use DII/DSI, but doesn't depend on third-party CORBA Interface Repository Service. So no IDL file compiling time consumed.

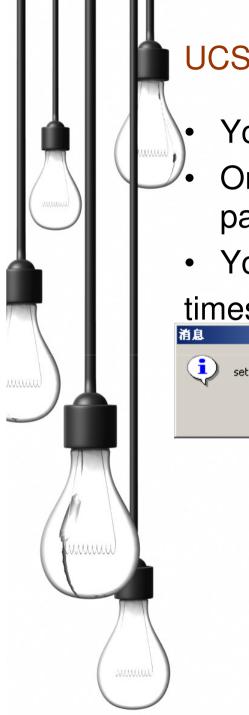
- Up to now, being used in more than 58 countries & areas demonstrates its reliabilities & stabilities









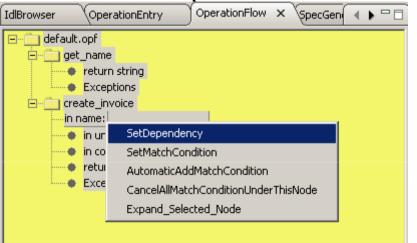


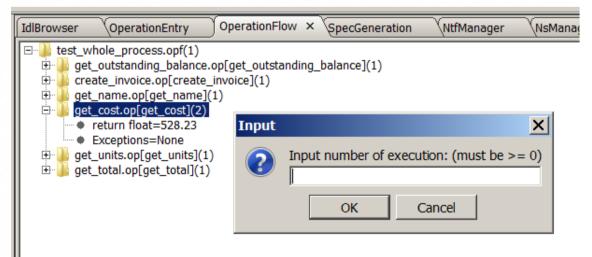
UCS can organize a test flow(2)

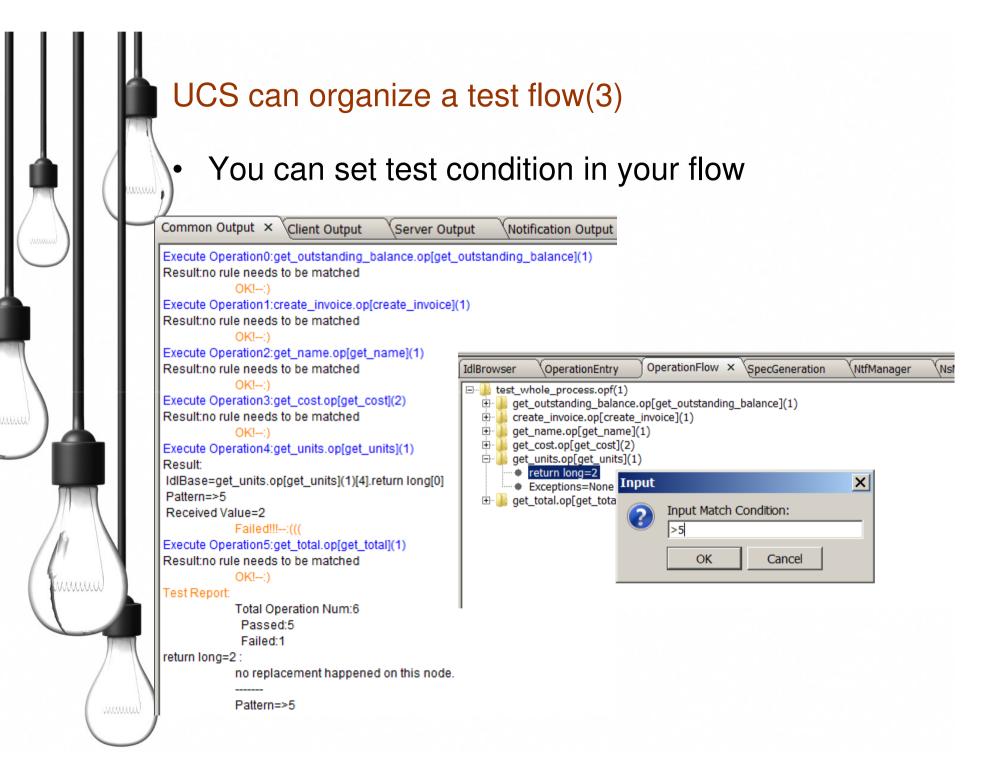
- You can set dependency for the flow
- One method's return is another's input IdBrowser parameter
- You can set loop

times







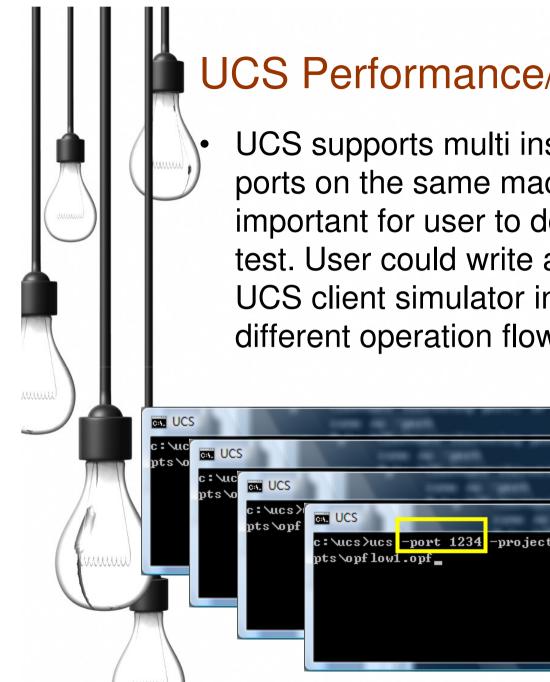




UCS can organize a test flow(4)

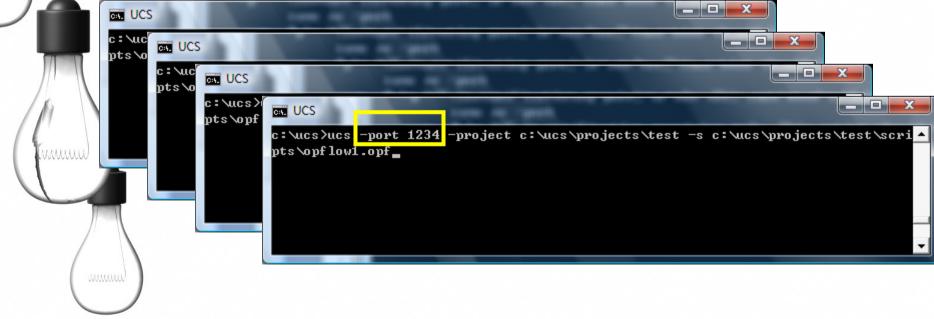
Work flow can run in console model

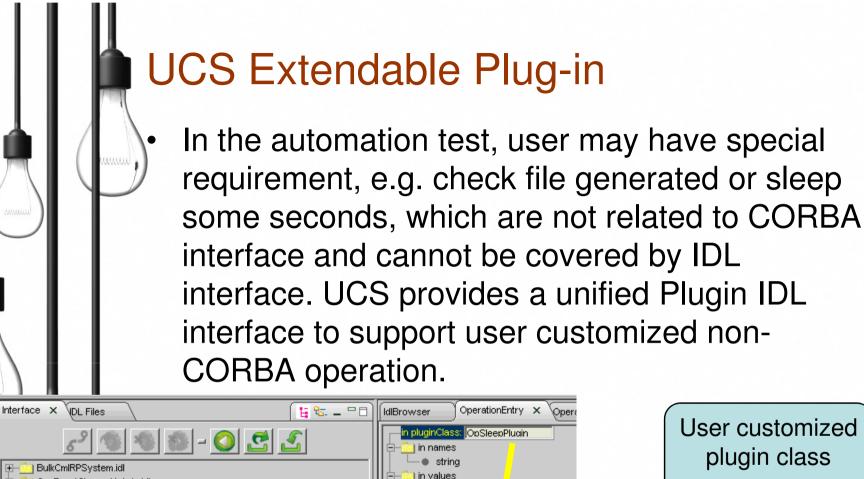
Administrator: UCS 09/06/2011 05:21 PM 501 ucs_console_client.bat 7 File(s) 290,577 bytes 10 Dir(s) 817,897,472 bytes free E:\private\UCS\UCSV1.3.1\projects\FactoryDemo>ucs_console_client.bat 1 file(s) copied. Nov 23, 2011 8:25:07 PM com.corba.mng.main.CorbaMNQ parseIdls INFO: Total IDL_Parse_Time: 0.031 seconds Execute Case0:get_outstanding_balance.op OK!--:) Execute Case1:create_invoice.op OK!--:) Execute Case2:get_name.op OK!--:) Execute Case3:get_cost.op OK!--:) Execute Case4:get_units.op OK!--:) Execute Case5:get_total.op OK!--:) Test Report: Total Case Num:6 Passed:6 Failed:0 Press any key to continue . . .

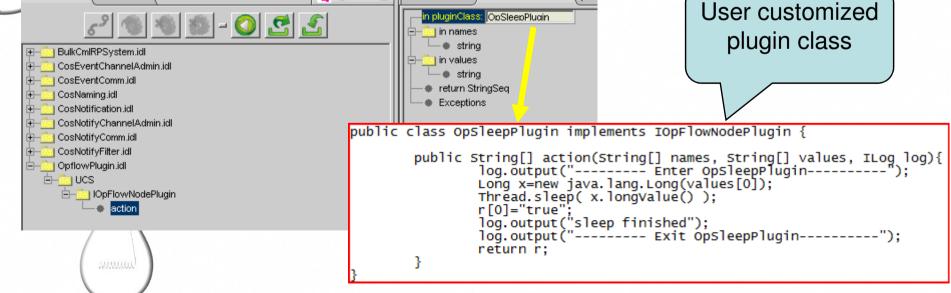


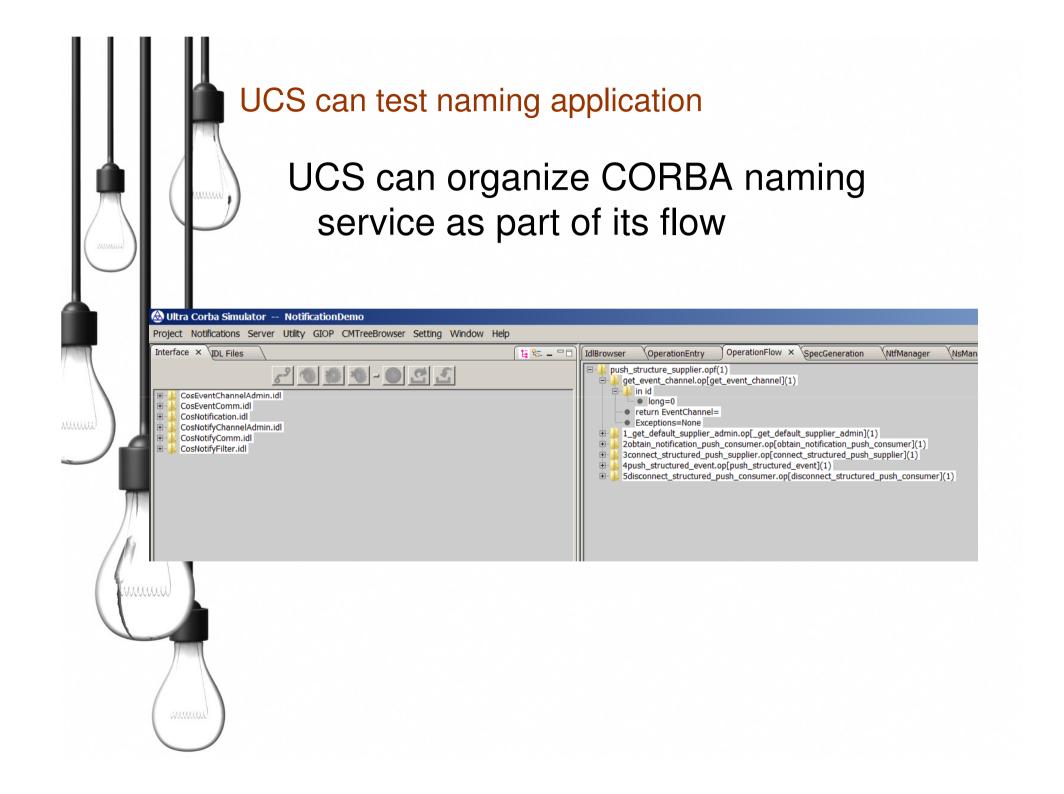
UCS Performance/Loading Test

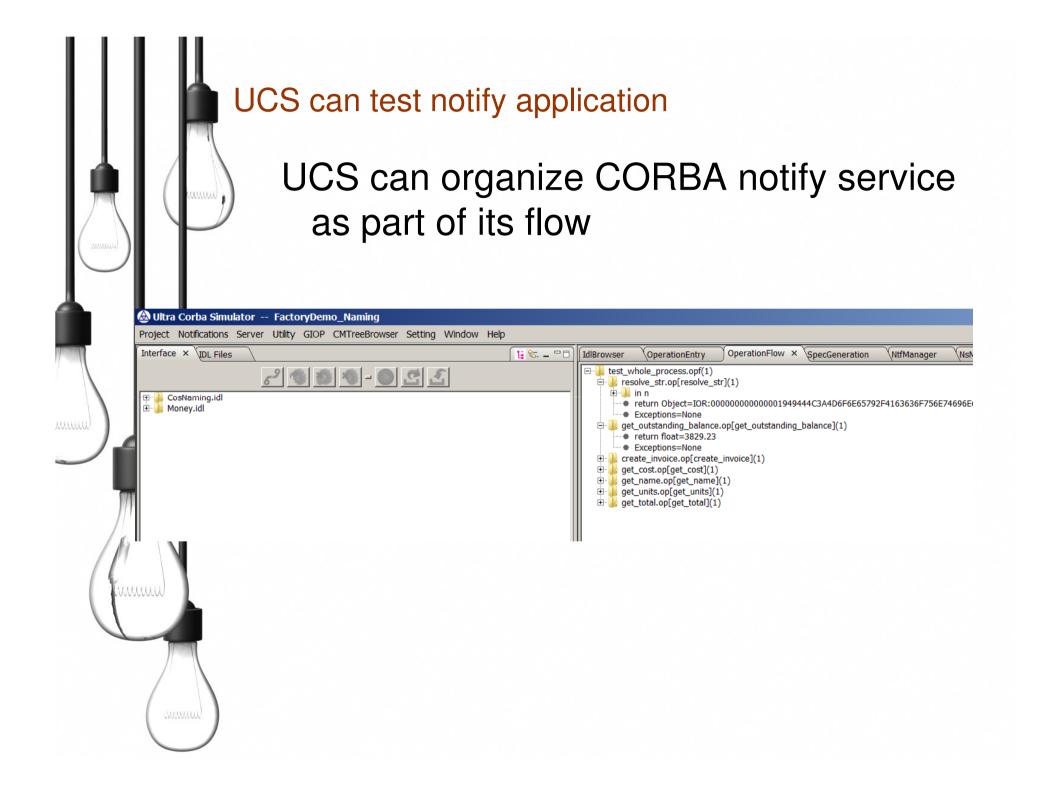
UCS supports multi instances with different ports on the same machine. This feature is important for user to do performance/loading test. User could write a script to start e.g. 10 UCS client simulator in console mode to run different operation flow concurrently.





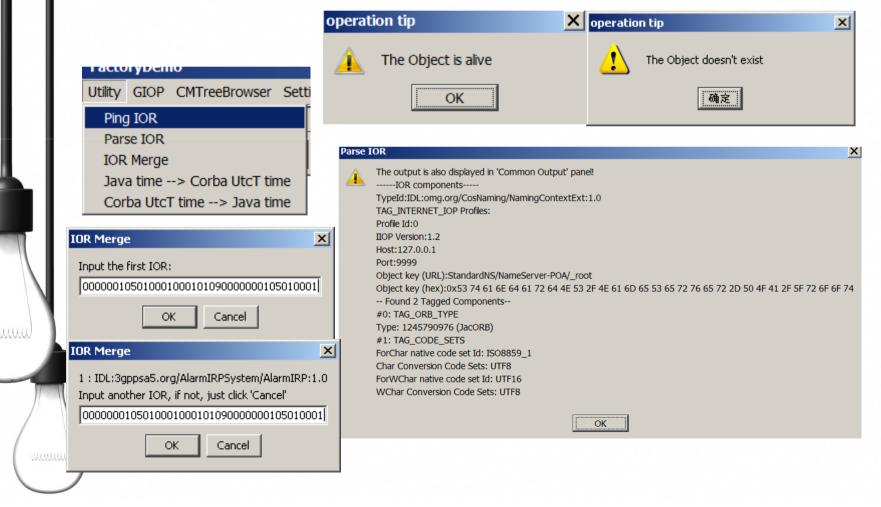


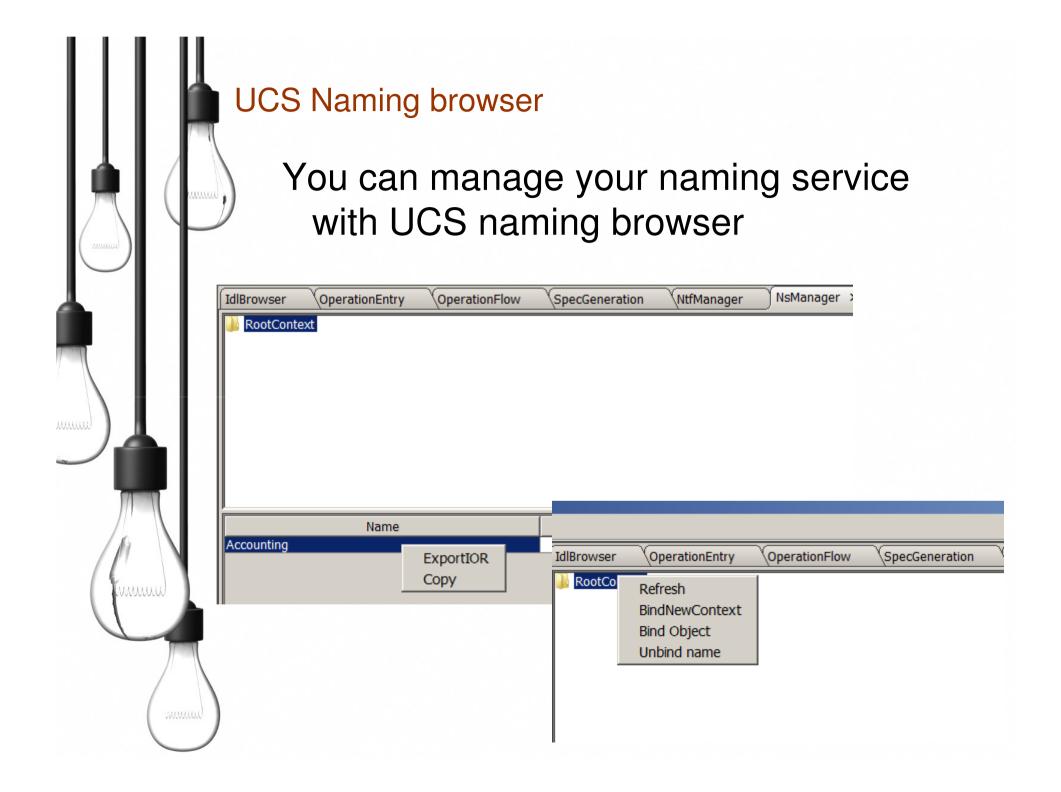




UCS useful utilities

Enjoy the small but useful CORBA utility



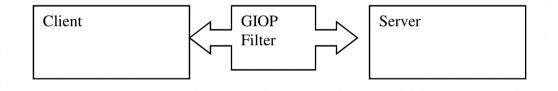


	IdlBrowser OperationEntry	with UCS N	age your Notify service otify browser	
/ 	EventChannelFactory			
		Name	Туре	
	ObjectType		Servant	SupplierAdmin
	Timeout		TimeBase::TimeT	0
	MaximumBatchSize		long	1
	StopTimeSupported		bolean	true
	ConnectionReliability		short	BestEffort
	StartTimeSupported		bolean	true
	ummul			



UCS GIOP interceptor

UCS can work as middle layer, and interceptor CORBA GIOP message.



Common Output	\Client Output	\Server Output	Notification Output	Server Extension Editor]GIOP Output × ∖	L
Wed Aug 13 16:47:52 CST 2008Message from 192.168.1.107:12346						
GIOP						
The GIOP version	n is 1.2					
Message size is	12					
Message type is	1					
isLittleEndian=	true					
Request ID is 4						
Wed Aug 13 16:47	7:52 CST 2008M	essage from 127.0.0	0.1:3712			
GIOP 4	:> 31	tony joke03	read			
The GIOP version	n is 1.2					
Message size is	52					
Message type is	0					
isLittleEndian=	true					
Request ID is 6						
Wed Aug 13 16:48	8:02 CST 2008M	essage from 192.16	8.1.107:12346			
GIOP						
tonyzhang						
The GIOP version	n is 1.2					
Message size is	26					
Message type is	1					
isLittleEndian=	true					
Request ID is 6						
tatus Bar						

UCS IDLgen

Generate run able standred java **CORBA** code

	🖦 Administrator: C:\Windows\S	ystem32\cmd.exe		<u> </u>
	Microsoft Windows [Vers: Copyright (c) 2009 Micro		All rights reserved.	
	idlgen.bat idlfile For example idlgen.bat (**************************************	*****	
	idlgen.bat idlfile For example idlgen.bat (**************************************	llo.idl xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	
Name ^		d com.corba.mnq.toc)l.GetEtcTool getProperties ¤aMNQ.dir', using current director	-y ins
Client.java	Generate code to ./UCSgo E:\private\UCS\UCSV1.3.			
📄 helloHelper.java	11/23/2011 10:18	JAVA File	2 KB	
📄 helloHolder.java	11/23/2011 10:18	JAVA File	1 KB	
📄 helloImpl.java	11/23/2011 10:18	JAVA File	1 KB	
helloOperations.java	11/23/2011 10:18	JAVA File	1 KB	
📄 helloPOA.java	11/23/2011 10:18	JAVA File	2 KB	
📄 helloPOATie.java	11/23/2011 10:18	JAVA File	2 KB	
📄 Server.java	11/23/2011 10:18	JAVA File	6 KB	



UCS can support SSL for Orbix6

Configure UCS property file

Change %UCS_HOME%/etc/jacorb.properties to following jacorb.security.support_ssl=on jacorb.security.keystore=D:\\myjava\\ucs \\ keystore.jks jacorb.security.keystore_password=bankserverpass

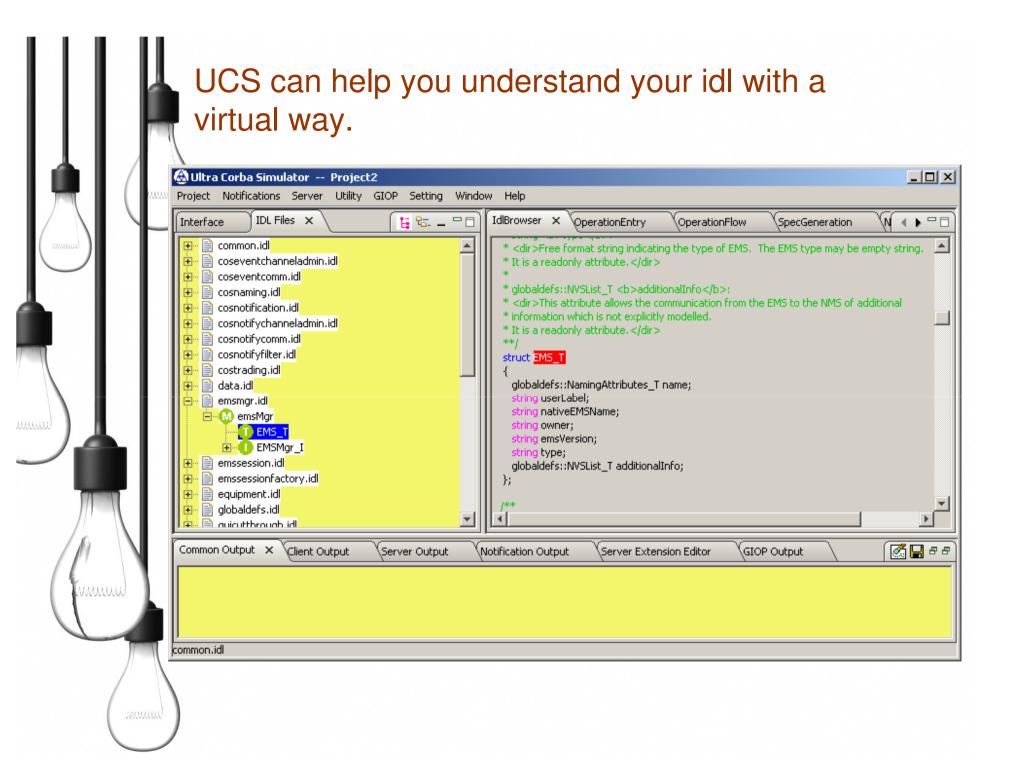
jacorb.security.ssl.client.supported options=60 jacorb.security.ssl.client.required options=4

jacorb.security.ssl.server.supported options=60 jacorb.security.ssl.server.required options=4

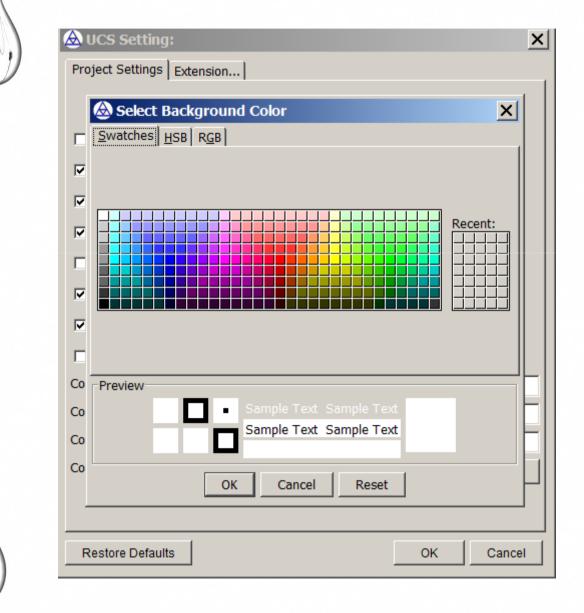
UCS can change IOR's hostname and port

Parse IOR 🔀	输入 🔀
IOR components TypeId:IDL:Joke:1.0 TAG_INTERNET_IOP Profiles: Profile Id:0 IIOP Version:1.2	② Enter IORfile;HostName;Hostport 通定 撤済
Host:10.2.15.7 Port:123 Object key (URL)::%3E%0231%05tony%00%06joke03 Object key (hex):0x3A 3E 02 33 31 05 74 6F 6E 79 00 06 6A 6F 6B 65 30 33 Found 3 Tagged Components #0: TAG_ORB_TYPE Type: 1230266177 (Foreign) #1: TAG_CODE_SETS EarChar patien code cot Id: ISO22E0_1	★入 ★ Enter IORfile;HostName;Hostport D:\joke03.ref;10.2.15.7;123 確定 撤済
ForChar native code set Id: ISO8859_1 Char Conversion Code Sets: ForWChar native code set Id: Unknown TCS: 10100 WChar Conversion Code Sets: UTF16 Unknown tag : 6	消息 ↓ Fix successfully! 通定

mmm



You choose the style that you like for your ucs project.



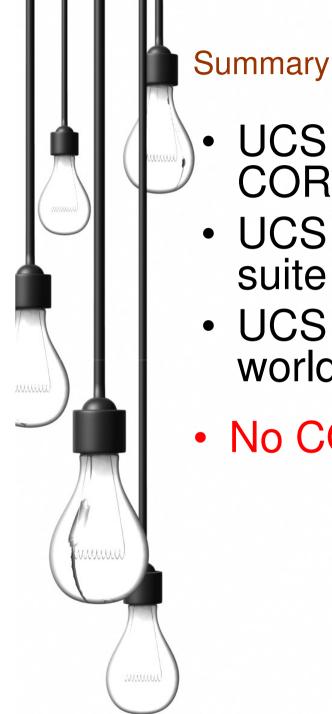
UCS CMTreeBrowser utility

✓ It can cache all kinds of configuration data, only if the configuration data is reported in the Struct type or Regular Value type.

- \checkmark And then display those configuration data in the tree view.
- ✓ One example (3gpp Corba interface:

BasicCmInformationIterator) see below picture:

Ditra Corba Simulator Project Notifications Server	Corba¥1 Utility GIOP CMTreeBrowser Setting Window Help	<u>_ D ×</u>
Interface × IDL Files	Idilorowser OperationEntry X OperationFlow UCS_CMTree_Browser Image: Comparison of the set	YspecGen € ► ¬ □
CosNotification.idl Common Output Client O value : String: iDL:3gppsa5. name : String: value : String: value : String:))) next basicCmInformations	Attributes of "s=1,me=1,sgsn=1" mo: String: s=1,me=1,sgsn=1, attributes : Sequence: Sequence of length: 2 (IDL:3gppsa5.org/BasicCmIRPSystem/MOAttribute:1.0{ name : String: gogo }; IDL:3gppsa5.org/BasicCmIRPSystem/MOAttribute:1.0{ name : String: sgsn2, value : String: come }	



UCS integrate almost all useful CORBA tools

- UCS is very powerful CORBA tool suite
- UCS is a little bit like SoapUI in WS world
- No CORBA user would refuse UCS

