

CORBA

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CSE515 Distributed Computing
Systems

CORBA

- What problem is the OMG trying to solve with CORBA?
- What is the fundamental idea behind their proposed solution?
- Why does object orientation help solve the heterogeneity problem?
- How do they hide complexity related to communication protocols?
- What patterns of object invocation does CORBA support?
- What is the difference between synchronous and asynchronous invocation styles?

CORBA

- How is asynchronous messaging supported?
- What is the difference between Callback and Polling asynchronous messaging?
- Are routing agents part of the ORB?
- What is IDL and why is it useful?
- What are stubs, and how are they used?
- What are skeletons, and how are they used?

CORBA

- What is the difference between static and dynamic invocation?
- How is static invocation supported on the client side?
- How is static invocation supported on the server side?
- What is an interface repository?
- How is dynamic invocation supported on the client side?
- How is dynamic invocation supported on the server side?

CORBA

- What is an Object Adapter?
- How does object registration and object reference generation work?
- What is the difference between an Object Adapter and a Skeleton?
- Why was a Portable Object Adapter (POA) needed?
- What does the POA do?
- What is request demultiplexing?
- What is dispatching?

CORBA

- What is activation/deactivation?
- What is a persistent object?
- What is a transient object?
- What are default servants and servant managers for?
- Why separate servant and CORBA object lifecycles?
- Why not give CORBA responsibility for object existence?

CORBA

- Which policies for multi-threading might be useful?
- Why might you use more than one POA for an application?
- What is the difference between call by reference and call by value?
- Does CORBA support object migration?
- Why are copying and migrating harder to implement than call by reference?

CORBA

- How is inter-ORB interoperability supported?
- What is the difference between GIOP and IIOP?
- What transparencies does CORBA provide?
- Are they the right transparencies?