



APM

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Training

ANSAwise - Welcome [to CORBA in Depth]

Chris Mayers

Abstract

This is the 'welcome speech' to the 2-day course "CORBA in Depth". It gives the course roadmap and timetable.

(This presentation is for the stand-alone 2-day course. It has progressed somewhat from the course originally given to GPT as in APM.1533, and from the 3-day course given in APM.1770; APM.1770 should be realigned with this.)

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Briefing Note

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Welcome to

CORBA in Depth

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About this course

- It is an advanced technical course in CORBA principles and practice
 - covering application design...
 - ... the services these applications will use
 - ... and the engineering of CORBA infrastructure



Course Timetable - Day 1

Module
The CORBA Object Lifecycle
Exercise: Sports Event Administration
<i>Break</i>
Persistent Data Storage with CORBA
<i>Lunch</i>
CORBA Directory Services
Trading and Federation
<i>Break</i>
CORBA Event Management and Message Queuing
<i>Close</i>



Course Timetable - Day 2

Module
Remote Procedure Call in Distributed Systems
Engineering Distributed Systems
<i>Break</i>
CORBA Concurrency
<i>Lunch</i>
CORBA Transactions
Exercise: Airport Shuttle System
Course Roundup
<i>Close</i>



Day 1 - morning

- **The CORBA Object Lifecycle**
 - how are objects created and destroyed in CORBA?
 - how can closely-related services simplify designs?
- **Exercise: Sports Event Administration**
- **Persistent Data Storage with CORBA**
 - how can database technology be integrated with CORBA?
 - what does the CORBA Persistent Object service offer?
 - which other standards and interfaces are relevant?



Day 1 - afternoon

- **CORBA Directory Services**
 - how do clients find servers in distributed systems?
 - what facilities do CORBA Object Services provide?
- **Trading and Federation**
 - how can clients find servers that provide the services that they need?
 - what criteria can be used to guide this process?
 - what are the implications of connecting together distributed systems?
- **CORBA Event Management and Message Queuing**
 - how does CORBA deal with asynchronous events?
 - does queued messaging have a place in distributed systems?



Day 2 - morning

- **Remote Procedure Call in Distributed Systems**
 - what is Remote Procedure Call and how does it work?
 - what are the different forms of Remote Procedure Call?
 - what are the performance implications?
- **Engineering Distributed Systems**
 - what trade-offs are necessary in distributed systems?
 - what techniques and mechanisms are available to help achieve these?
- **CORBA Concurrency**
 - what the basic principles of concurrency?
 - what the implications of threads (lightweight processes)?
 - what facilities does the CORBA Concurrency Control service provide?



Day 2 - afternoon

- **CORBA Transactions**

- what standards are there for transaction services?
- how does the CORBA Transaction service relate to these standards?

- **Exercise: Airport Shuttle System**



Enjoy the course!

- ... and ask questions whenever you wish

