



**Poseidon House
Castle Park
Cambridge CB3 0RD
United Kingdom**

TELEPHONE:
INTERNATIONAL:
FAX:
E-MAIL:

**Cambridge (01223) 515010
+44 1223 515010
+44 1223 359779
apm@ansa.co.uk**

Training

ANSAwise - Welcome [GPT, 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 course as originally presented to GPT on 2-3 August 1995.

[Note that this presentation includes the GPT logo as a bitmap. There may be difficulty printing this on some printers.]

APM.1533.01

Approved
Briefing Note

31st July 1995

Distribution:
Supersedes:
Superseded by:



Welcome to

CORBA In Depth

Chris Mayers (apm@ansa.co.uk)



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
<i>Welcome</i>
The CORBA Object Management Architecture
CORBA Concurrency and Transactions
<i>Break</i>
Trading and Federation
<i>Lunch</i>
Designing Applications with CORBA
Using Advanced CORBA IDL Features
<i>Break</i>
Distributed Communications Techniques
<i>Close</i>



Course Timetable - Day 2

Module
<i>Review of Day 1</i>
CORBA Infrastructure Engineering
CORBA Interoperability
<i>Break</i>
Replication Techniques for Distributed Systems
<i>Lunch</i>
Persistent Data Storage with CORBA
CORBA and Real-Time Systems
<i>Break</i>
Course Roundup
<i>Close</i>



Structure of the course -1

- ***The CORBA Object Management Architecture***
 - what are the features of the CORBA Object Management Architecture?
 - what are the interfaces to the Object Request Broker (ORB)?
 - what work is in progress?
- ***CORBA Concurrency and Transactions***
 - what the basic principles of concurrency?
 - what the implications of threads (lightweight processes)?
 - what facilities does the CORBA Concurrency Control service 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?



Structure of the course - 2

- ***Designing Applications with CORBA***
 - what standard interfaces are available to applications?
 - what must be considered when designing object implementations?
 - how should interfaces between objects be determined?
- ***Using Advanced CORBA IDL Features***
 - what other features does CORBA IDL provide?
 - when are these features useful?
 - what are the implications of using these features?
- ***Distributed Communications Techniques***
 - what fundamental communications techniques are there?
 - what are their strengths and weaknesses?
 - does queuing have a place in distributed systems?



Structure of the course - 3

- ***CORBA Infrastructure Engineering***
 - what design trade-offs are available?
 - how can these trade-offs be made transparent to applications?
 - how should ORBS be engineered?
- ***CORBA Interoperability***
 - what are the implications of interoperability for interconnecting ORBs?
 - how does CORBA 2 support multiple protocols?
 - what are the challenges involved in implementing interoperability?
- ***Replication Techniques for Distributed Systems***
 - what are the fundamental challenges for replication technology?
 - what has experience taught us?
 - how will replication technology be integrated with CORBA?



Structure of the course - 4

- ***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?
- ***CORBA and Real-time Systems***
 - to what extent do current products support real-time distributed processing?
 - what are the design pitfalls?
 - how will CORBA products evolve to support real-time?



Enjoy the course!

- *... and ask questions whenever you wish*

