

EXAM 2005 (3H)

2nd November 5:45 - 9:00 pm
BLD 8 Level 9 Room 46

60% 40% (ASSIGNMENTS)

ONE ¹BONUS ¹¹ QUESTION (6%)

Q1 (CORBA) 38/100

Q2 (Load Balancing) 38/100

Q3 (SOAP) 24/100

CLOSED BOOK EXAM.

3H
60%

ONE BONUS QUESTION (6 m)

NO MULTIPLE CHOICE

Q1 38M (GRBA)

Q2 38M (LB)

Q3 24 (SOAP)

Wkrp-up in Cosc 1174 / 1175

① Basics of CORBA

✓ = architecture (basic, interface repository, implementation repository...)

✓ = bindings (transient / persistent)

✓ = POA (Portable Object Adapter)

* policies (request processing, retention)

* de-multiplexing of requests at the

server side

* architecture

②

Load balancing

✓ Basics (e.g. metrics, ...)

✓ Various techniques to compute the load index

✓ Various techniques for task assignment

* ~~Problems~~ for Parallel size
Issues (e.g. task distribution,
task size known/un-known)

* Classical approaches (e.g. RR, Round, LCF, ...)

* Size-based approaches

— assume task size known (e.g. SITA-E, SITA-V, ...)
— don't (e.g. TALKS, TAPTF)

(3)

SOAP

✓ Basics / History

✓ The # elements of SOAP messages
~~not~~ headers, body, ...

✓ Serialisation (of # types, like
Simple types - integers
Complex types - ~~str~~ array / ...

✗ Security (Access control)

- * overview of existing access control (MAC, DAC, RBAC)
- * requirements for SOAP access control
- * The approach from Damiani

Discipline

'Distributed Systems & Networking'

http://www.cs.cmu.edu/~ececds

