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ANSA Phase III

Ruby - concurrent multimedia stream processing

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Abstract

The Ruby project will demonstrate QoS controlled concurrent multimedia stream processing based on the Amber demonstrator using the technology developed in Jet, Jetstream and Amythyst.

APM.1714.01

Approved
Briefing Note

18th March 1996

Distribution:
Supersedes:
Superseded by:



RUBY

concurrent multimedia stream processing



Overview

- **demonstrate concurrent multimedia stream processing**
 - based on the AMBER demonstrator
 - targeted at ATM (but possibly running over MBone)
- **tie together all the DIMMA projects**
- **show the principles involved in concurrent multimedia stream processing and programming**



Benefits

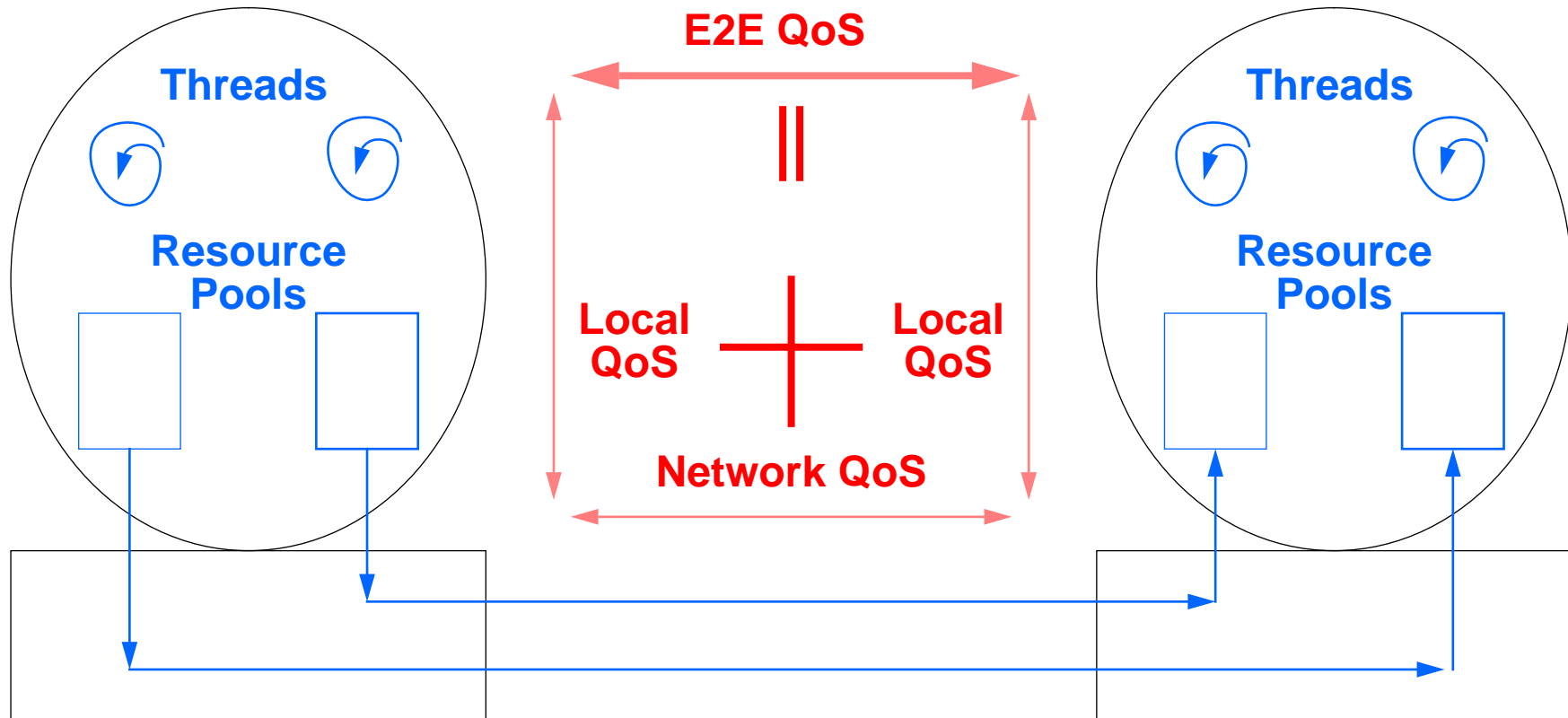
- **develop an understanding of programming issues for distributed concurrent multimedia stream processing**
- **technical aspects:**
 - **input to product developments and standards**
- **business aspects:**
 - **explore opportunities afforded by new technology**
 - **develop methods for constructing advanced multimedia services**



Approach

- **build a useful prototype / demonstrator**
 - e.g. video encoding converter, frame rate adapter or reflector
- **map application level multimedia QoS onto low level QoS**
 - target DCAN connection management architecture
- **integrate:**
 - streams from Amber
 - CORBA API and IDL from Jet
 - threads, stream IDL and binder generation from Jetstream
 - resource pools and network QoS from Amethyst
- **investigate real-time protocols and multi-cast binding**

Concurrent multimedia streams



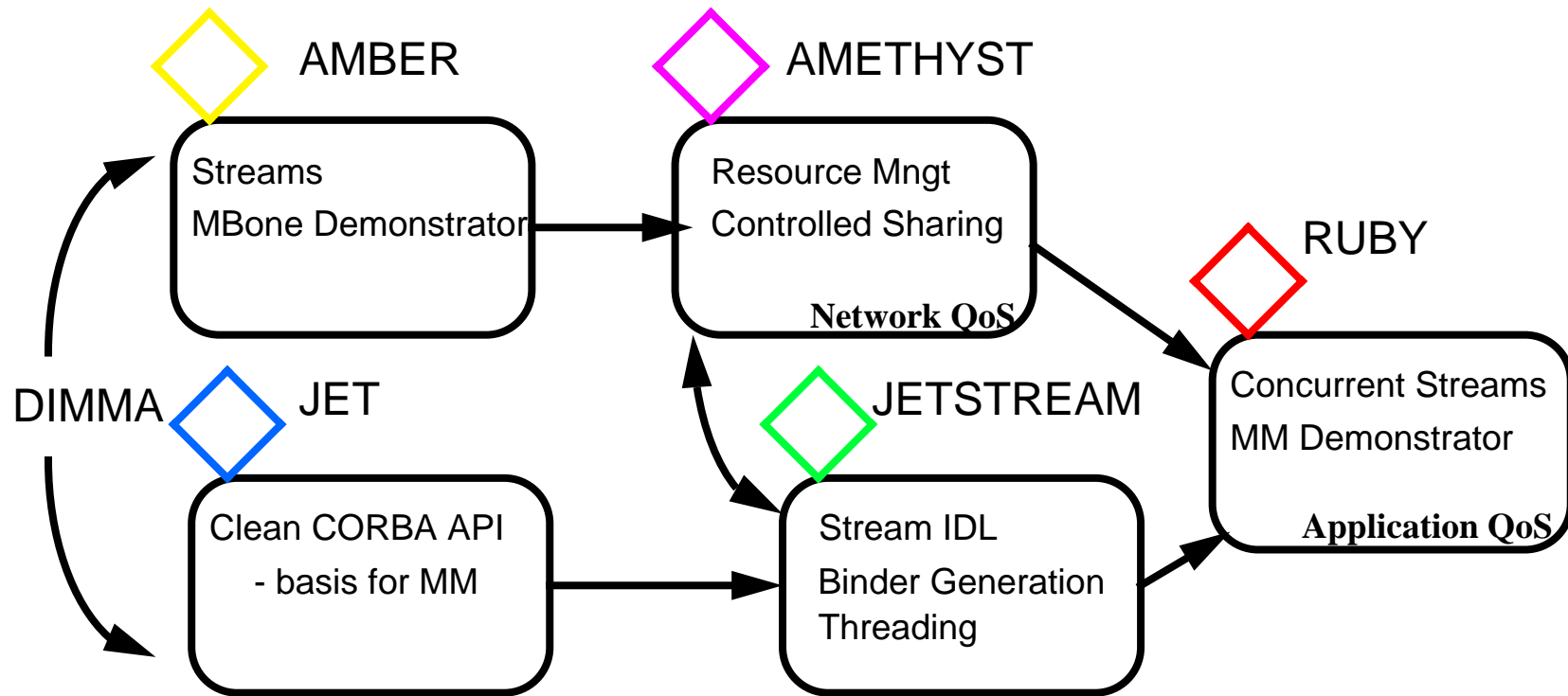


Plan

- **Dependencies**
 - Amber, Jet, Jetstream, Amethyst

- **Deliverables**
 - Concurrent multimedia demonstrator
 - Application level QoS management

- **Timescale**
 - start: August 1996
 - end: November 1996



ANSA path to Multi-Media CORBA