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ANSA Phase III

C2: DIMMA example sign off (TC 28/2/95 slides)

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Abstract

Request for approval of two documents:

APM.1222: Some Engineering Aspects of Real-Time

APM.1207: Real-Time ANSAware Version 1.0: Programming and System Overview

APM.1420.00.01

Draft

23rd February 1995

Request for Comments (confidential to ANSA consortium for 2 years)

Distribution:

Supersedes:

Superseded by:



C2: DIMMA example sign off

Guangxing Li

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Introduction

- really P3 (old workplan) sign off
- real-time ANSAware design and implementation
 - document APM.1222: Some Engineering Aspects of Real-Time
 - document APM.1207: Real Time ANSAware Version 1.0: Programming and Systems Overview



Document APM.1222

- design of a real-time engineering model
- real-time engineering features: predictability, programming control, timeliness, mission orientation, performance
- what needs to be addressed to have real-time objects - object execution model
- real-time tasking model
 - priority based computing: priority inversion, scheduling etc.
 - deadline based computing: meaning of deadline etc.
- real-time communication model
 - controlled multiplex - parallel communication stack
 - timed RPC protocol
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Document APM.1207

- ANSAware/RT based on ANSAware 4.1
- how to do real-time scheduling
- how to do multiplex control - here comes the explicit binding idea
- a new RPC protocol - TREX
- extended PREPC, IDL
- first done on Alpha OSF/1
- ported to HP/RT (helped by BNR) and LynxOS (helped by GPT)



Comments

- **CNET - APM.1222, lots of comments, most received, and changed title**
 - **QoS needs more treatment (APM.1151, still a draft)**
- **HP - Leon Bouwmeester, lots of minor comments, almost received**
- **GPT - APM.1207, all received**

Your approval or ...