ID2203 - Tutorial 3

Distributed Systems, Advanced Course



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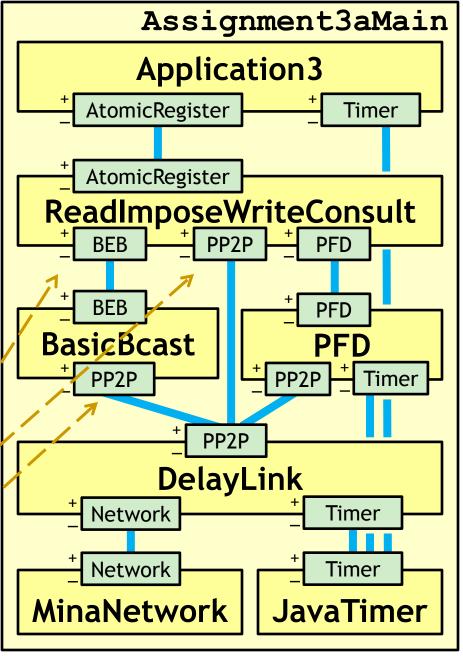
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Third assignment: atomic registers

- Implement and experiment with
 - Atomic register
 - Fail-stop (synchronous) model
 - Algorithm: Read-Impose Write-Consult
 - Atomic register
 - Fail-silent (asynchronous) model
 - Algorithm: Read-Impose Write-Consult-Majority
- Atomic registers discussed in lectures 7-8
- Read chapter 4 of the textbook!
- For requirements see Assignment3.pdf
- Algorithms* given in Assignment3.pdf

RIWC ReadRequest ReadResponse WriteRequest WriteResponse ReadResponse AtomicRegister WriteResponse ReadRequest WriteRequest **BebBroadcast** BebDeliver **BebDeliver** BEB BebBroadcast WriteMessage **⊆** BebDeliver AckMessage $\subseteq \bigcirc$ Pp2pDeliver BebMessage ⊆ Pp2pDeliver Riwclnit \subseteq \bigcirc Init



Beblnit \subseteq \bigcirc Init

RIWCM ReadRequest ReadResponse WriteRequest WriteResponse ReadResponse AtomicRegister WriteResponse ReadRequest WriteRequest **BebBroadcast** BebDeliver **BebDeliver** BEB **BebBroadcast** WriteMessage **⊆**◆ BebDeliver / AckMessage $\subseteq \bigcirc$ Pp2pDeliver BebMessage $\subseteq \bigcirc$ Pp2pDeliver Riwclnit \subseteq \bigcirc Init Beblnit \subseteq \bigcirc Init

