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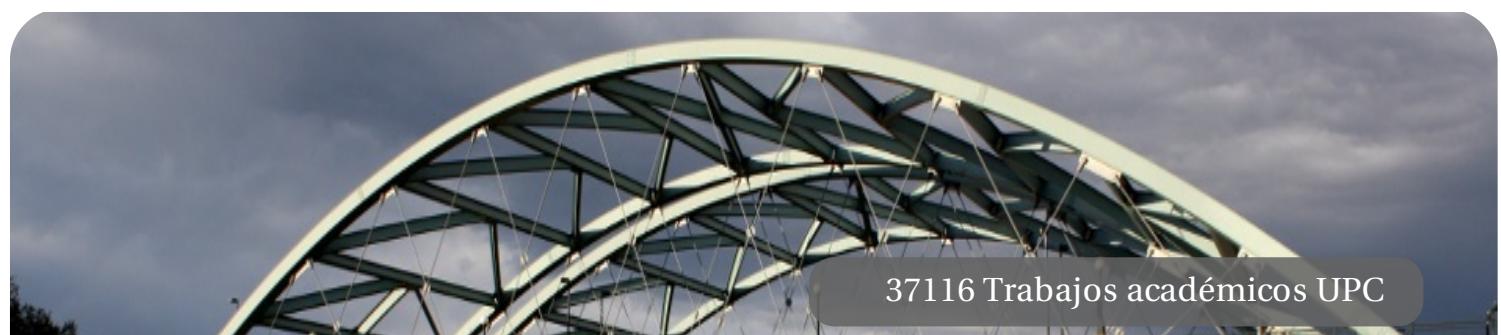
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Implementation of a lock-free queue

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Realizado en/con: Amadeus

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Resumen

Implementation of shared queues (lock-free)

Descripción

The transactional framework used to develop Amadeus C++ applications is based on a mechanism of queues to manage the message exchanges between components. These structures are protected from concurrent access thanks to synchronization services provided by Linux. But theses services have a cost in term of performance and they bound the volume of messages transmitted by these queues. In a first step, I have to investigate on the state-of-the-art in term of management algorithms of synchronization-free queue (Lock-Free Queue). Several algorithms will be studied for different cases: 1 Producer – 1... [+]

Materias: Databases, Parallel programming (Computer science), Bases de dades, Programació en paral·lel (Informàtica)

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