

METHOD AND APPARATUS FOR THREAD SYNCHRONIZATION IN OBJECT-BASED SYSTEMS

ABSTRACT

Methods and apparatus which enable threads to lock and to unlock objects disclosed. According to one aspect of the present invention, a method for associating
5 an object with a first thread includes obtaining the contents of the object header field of the object. The contents obtained from the object header field are then stored into a first location within a stack which is associated with the first thread. A reference indicator, which identifies the stack in which the contents obtained from the object header field are stored, is then stored in the object header field. In one embodiment, the method further
10 includes updating a status indicator associated with the object to essentially show that the reference indicator is stored in the object header field.

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