

**Bug 305833 - Dead Lock in DeltaProcessor.resourceChanged**

1

Status: NEW

3

Product: JDT  
Component: Core  
Version: 3.6  
Hardware: PC Windows Vista

Importance: P3 major with 4 votes (vote)  
Target Milestone: ---  
Assigned To: Jay Arthanareeswaran  
QA Contact:

5

URL:  
Whiteboard:  
Keywords:  
Tags:


Depends on: 249951  
Blocks:  
Show dependency tree

Reported: 2010-03-15 06:55 EDT by Jens Baumgart  
Modified: 2011-05-03 13:03 EDT (History)  
CC List: ☒ Add me to CC list  
4 users (edit)

4

See Also:  
Flags: None yet set (set flags)

Attachments

|  |          |                         |
|--|----------|-------------------------|
| <a href="#">Stack Trace</a> (6.61 KB, text/plain)<br>2010-03-15 06:58 EDT, Jens Baumgart  | no flags | <a href="#">Details</a> |
| <a href="#">Add an attachment</a> (proposed patch, testcase, etc.) <a href="#">View All</a>  |          |                         |

6

Additional Comments:


Status:NEW Save Changes

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|---|----------------|
| 1 | Identificador  |
| 2 | Sumário        |
| 3 | Situação       |
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| 5 | Atribuído Para |
| 6 | Anexo          |
| 7 | Relato         |
| 8 | Comentário     |


Jens Baumgart  2010-03-15 06:55:46 EDT [Description](#) [reply](#) [\[-\]](#) [Collapse All Comments](#)  
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Build Identifier: Eclipse 3.5.1  
  
In our scenario a dead lock with DeltaProcessor.resourceChanged occurs (see attached stack trace).  
Thread Worker-0 owns the OrderedLock and calls JavaProject.resolveClasspath.  
Our class path container (RequiredDcsClasspathContainer) waits for a lock (DevConf Lock).  
Thread ModalContext owns WorkspaceRoot and DevConf Lok and waits for OrderedLock.  
=> Dead Lock  
  
I think it is problematic to call client code (class path container) when holding OrderedLock.  
  
Reproducible: Sometimes

7


Jens Baumgart  2010-03-15 06:58:12 EDT [Comment 1](#) [reply](#) [\[-\]](#)

Created [attachment 162831](#) [\[details\]](#)  
Stack Trace

Xu XIANG  2010-03-18 10:43:39 EDT [Comment 2](#) [reply](#) [\[-\]](#)

see similar deadlocks [Bug-291764](#), [Bug-292404](#)

8

Jay Arthanareeswaran  2010-04-12 05:12:48 EDT [Comment 3](#) [reply](#) [\[-\]](#)

The DeltaProcessor#resourceChanged (and eventually IClasspathContainer#getClasspathEntries) is running inside the notification thread and other threads are not allowed to modify the workspace during the resource change event. JDT/Core needs to resolve the classpath container during this event. Just wondering, in the other thread, can't you check if the workspace tree is locked or not and proceed with the modify operation?