

DCMTK - Patch #810

Slim read/write locks on Windows

2018-01-29 16:22 - Marco Eichelberg

Status:	Closed	Start date:	2018-01-29
Priority:	Normal	Due date:	
Assignee:	Marco Eichelberg	% Done:	100%
Category:		Estimated time:	0:00 hour
Target version:		Compiler:	
Module:			
Operating System:			
Description			
<p>Accesses to the data dictionary are protected by a critical section and a semaphore implemented in class OFReadWriteLock. Since Windows Vista, Windows offers "Slim Reader/Writer Locks" (https://msdn.microsoft.com/en-us/library/windows/desktop/aa904937%28v=vs.85%29.aspx?f=255&MSPPErr=-2147217396) that offer better concurrency when there are parallel threads that only read the data dictionary.</p> <p>The attached patch replaces the existing implementation with SRW locks, which, however, different unlock methods for read locks and write locks.</p> <p>The patch may also affect Android (via POSIX_INTERFACE_WITHOUT_RWLOCK) - this was not considered when developing the patch and may require special handling.</p> <p>Submitted 2018-01-24 by Christian Fremgen <Christian.Fremgen@ith-icoserve.com>.</p>			

History

#1 - 2018-06-23 18:24 - Marco Eichelberg

- Status changed from New to Closed
- Assignee set to Marco Eichelberg
- % Done changed from 0 to 100

Closed by commit #1e6aefd.

Files

dcmk-3.6.2-SlimReaderWriterLock.patch	23.5 KB	2018-01-29	Marco Eichelberg
main.cpp	576 Bytes	2018-01-29	Marco Eichelberg