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[mop] Following up on today's meeting about problems with our properties

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Sent: Thursday, September 24, 2015 5:28 PM**To:** mop@cs.illinois.edu

TL;DR: Summary of our meeting today, Grigore please look below and assign tasks for fixing the properties with FSL and/or RV personnel.

Thank you all for the discussion at our meeting today. We discussed some problems with our properties. The slides we looked into are here:

<http://mir.cs.illinois.edu/legunsen/PresentationBadProperties.pptx>

Specific things that need to be done, going forward:

- 1) Determine which of our properties are from the JDK 6 API and which ones are not? We looked into `ByteArrayOutputStream_flushBeforeRetreive.mop`, which is violated a lot, can help find bugs, but is not in the Java API
- 2) Decide how to deal with `SortedSet_Comparable` and `TreeSet_Comparable`. First, both generate a lot of false alarms because they cannot tell when a `{Sorted,Tree}Set` is instantiated with a `Comparator`. Second, `TreeSet` extends `SortedSet`, so every time we get a false alarm for `TreeSet`, we also get a bonus false alarm for `SortedSet` :D
- 3) Investigate why `Iterator_HasNext` sometimes shows a violation on `hasnext()` events. This should never happen, but we have seen in it 7 times in our experiments so far. The initial discussion is to (a) check if other variants of `Iterator_HasNext` in our examples directory (b) see whether resetting the monitor will help get rid of such warnings.
- 4) We saw that `Collections_SynchronizedCollection`, which checks whether a synchronized collection is used in a thread-unsafe manner. However, our property leads to false alarms because it cannot track synchronization mechanisms that developers commonly use, e.g., synchronized methods.

There are more, but we should start with these.

9/25/2015

[mop] Following up on today's meeting about problems with our properties - Outlook Web App, light version

Thanks,
Owolabi



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