Immutable ArrayBuffers for stage 3

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Stage 3

- committee approval
- merge test262 tests
- write test262 tests
 - immutable-arraybuffer tests #4445
- receive implementer feedback
 - XS: implemented, tested, all good
- resolve all normative stage 4 issues
 - Document the permanent bidirectional stability of immutable ArrayBuffer contents #44
 - Order of operations, when to throw er cilently do nothing? #16 was not a normative requirement for 2.7. It is normative for stage 3

Stage 3

25.1.3.2 AllocateImmutableArrayBuffer (constructor, byteLength, fromBlock, fromIndex, count commit The abstract operation AllocateImmutableArrayBuffer takes arguments constructor (a constructor), byteLength merge t (a non-negative integer), fromBlock (a Data Block), fromIndex (a non-negative integer), and count (a nonnegative integer) and returns either a normal completion containing an ArrayBuffer or a throw completion. It write te <u>is used to cre</u>ate an immutable ArrayBuffer (i.e., an ArrayBuffer with a an [[ArrayBufferIsImmutable]] slot) with contents from fromBlock. The contents of an immutable ArrayBuffer's Data Block are constrained to be im permanently stable, and may not be modified by either ECMAScript code or by other activities inside an implementation or observable by it. It performs the following steps when called: receive XS: implemented, teste all good resolve all normative stage 4 ssues

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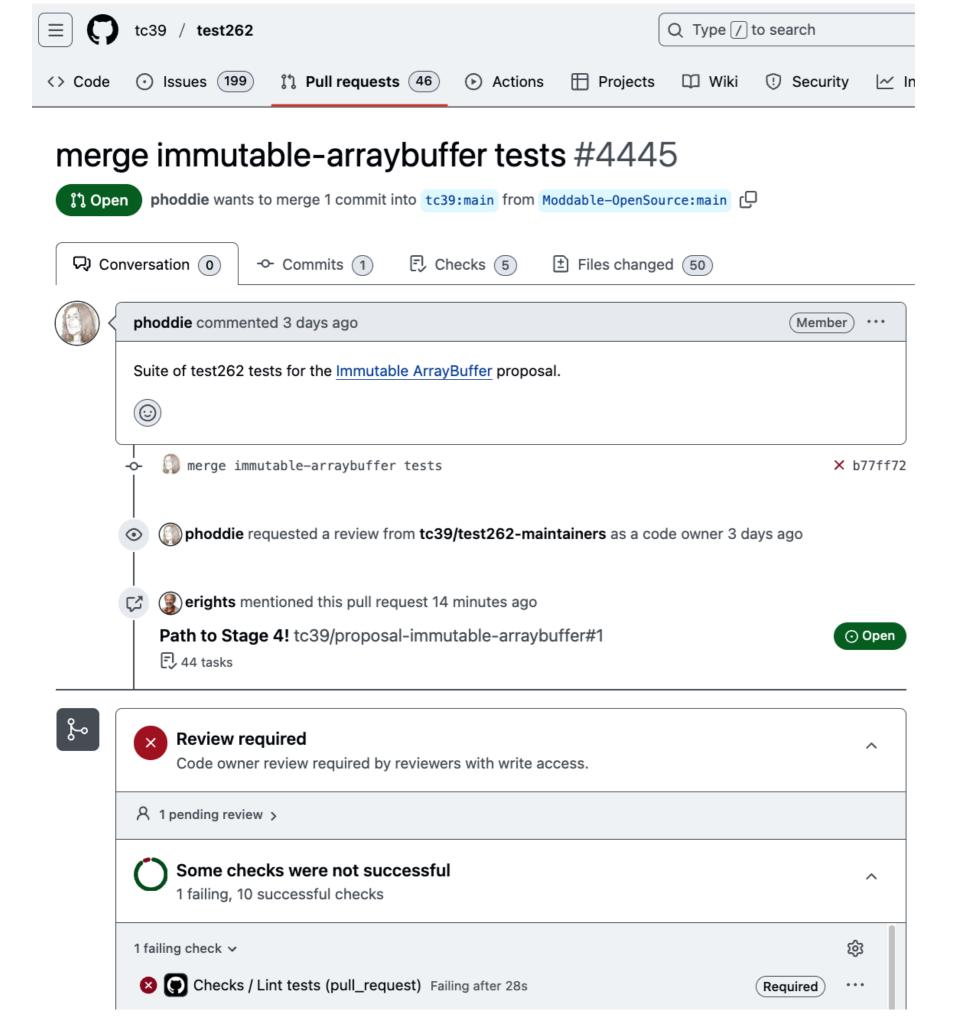
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As close as possible to slice(s,e) 25.1.6.8 ArrayBuffer.prototype.sliceToImmutable (start, end) This method performs the following steps when called: **Status** 1. Let *O* be the **this** value. 2. Perform ? RequireInternalSlot(O, [[ArrayBufferData]]). 3. If IsSharedArrayBuffer(0) is true, throw a TypeError exception. 4. If IsDetachedBuffer(O) is true, throw a TypeError exception. Stage 3 5. Let *len* be *O*.[[ArrayBufferByteLength]]. 6. Let bounds be? ResolveBounds(len, start, end). 7. Let *first* be *bounds*.[[From]]. 8. Let final be bounds.[[To]]. committee a 9. Let newLen be max(final - first, 0). 10. NOTE: Side-effects of the above steps may have detached or resized *O*. merge test2 11. If IsDetachedBuffer(0) is true, throw a TypeError exception. 12. Let *fromBuf* be O.[[ArrayBufferData]]. write test26 13. Let *currentLen* be *O*.[[ArrayBufferByteLength]]. 14. If *currentLen < final*, throw a **RangeError** exception. immuta 15. Let newBuffer be? AllocateImmutableArrayBuffer(%ArrayBuffer%, newLen, fromBuf, first, newLen) 16. Return *newBuffer*. receive implementer re 1CK XS: implemented, ed, all good resolve all normative sta 4 issues > Document the permanent bidirectional stability of immutable ArrayBuffer contents #44 Order of operations, when to throw er silently do nothing? #16 was not a normative requirement for 2.7. It is normative for stage 3

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Questions?