WASI 0.3.0 October Update

Yosh Wuyts Microsoft WASI SG Meeting 2025-10-02

Wasmtime

v37.0.0: Release Wasmtime 37.0.0 (#11724)

github-actions released this 2 weeks ago · 97 commits to main since this release 👽 v37.0.0 - 7b3d6ae 📀

37.0.0

Released 2025-09-20.

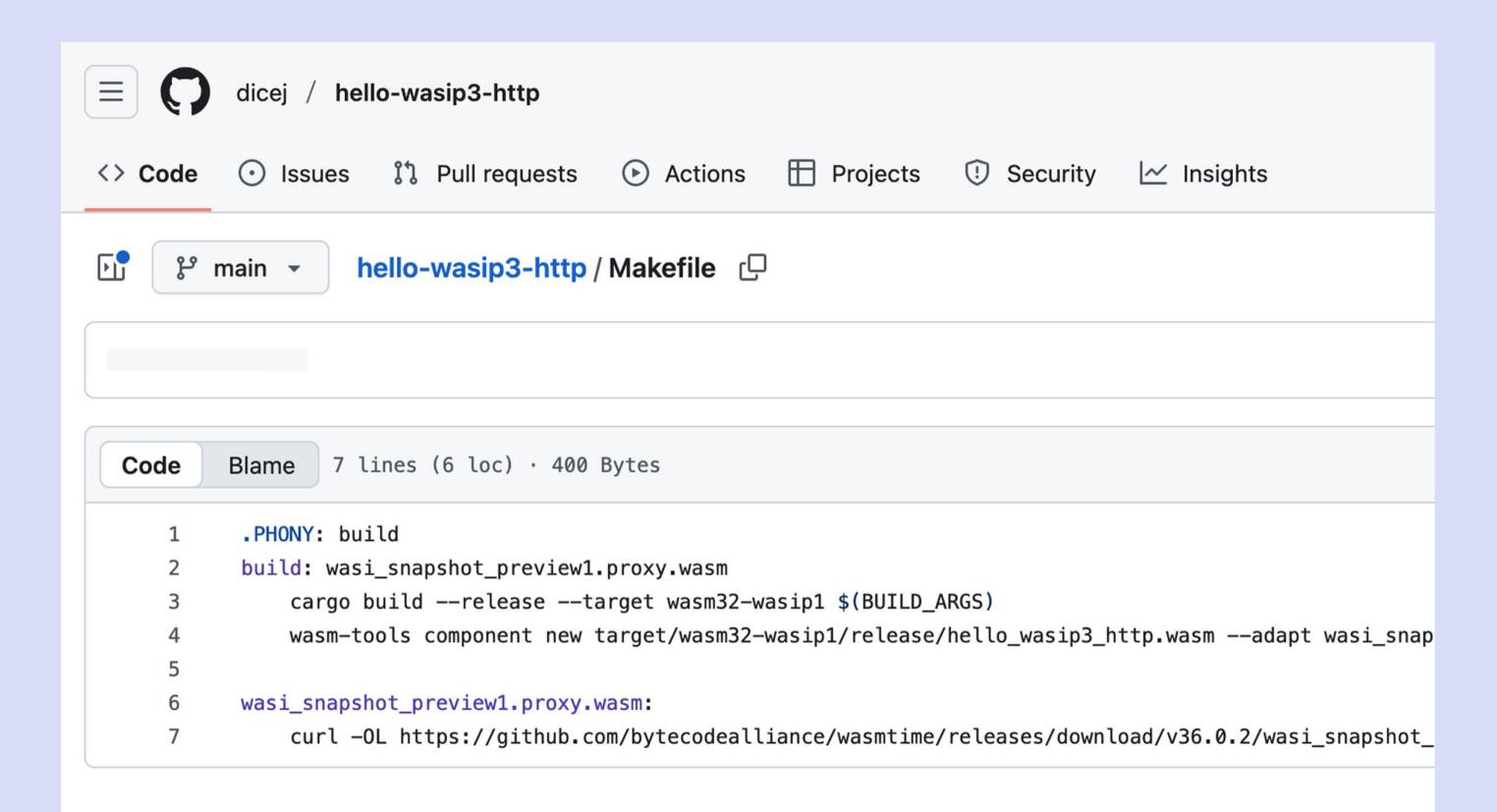
Added

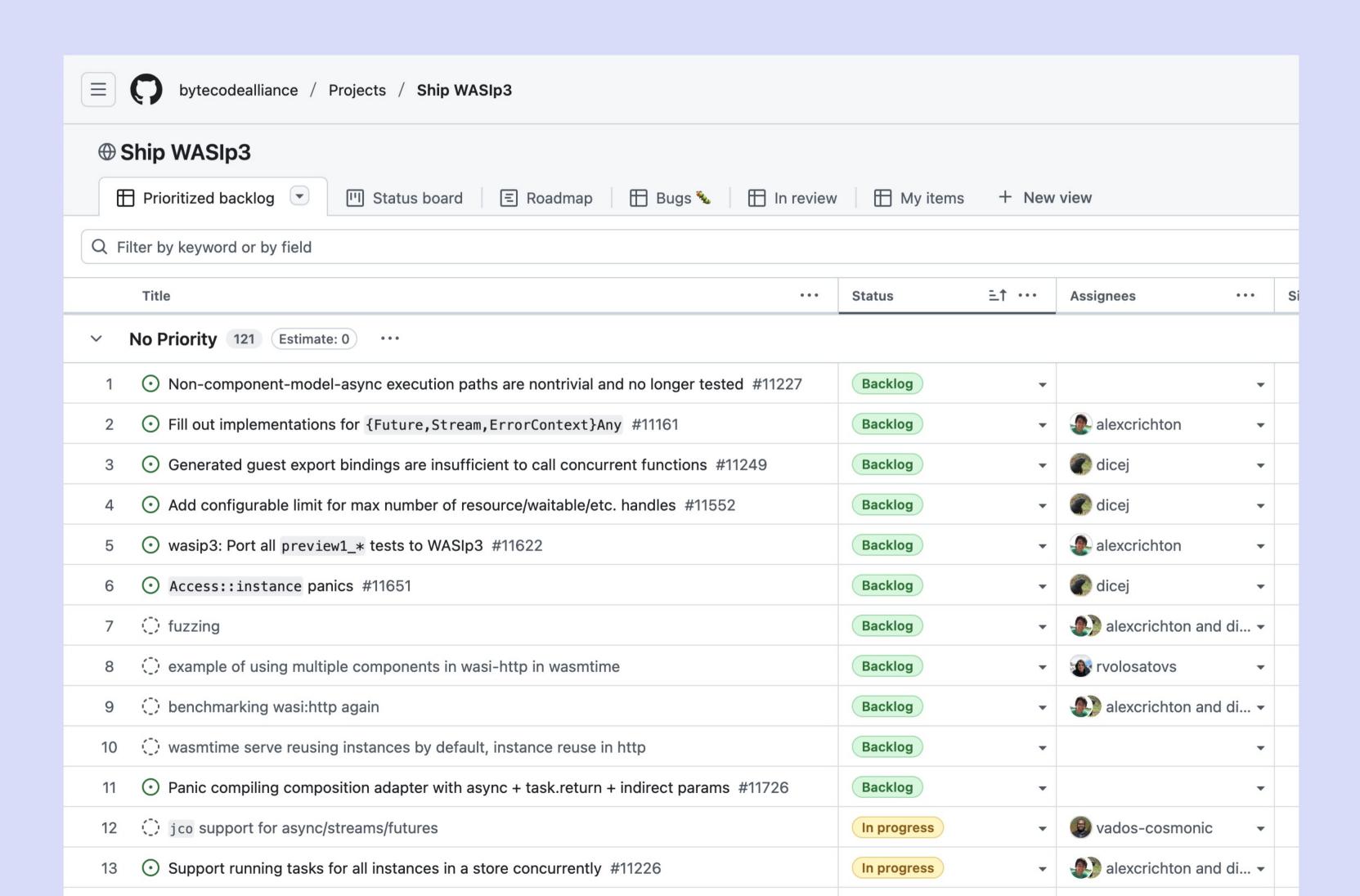
- Wasmtime now fully implements the WebAssembly exception-handling proposal. Support is still disabled by default but is ready for testing. The proposal will be enabled by default in a future release of Wasmtime. #11326
- An initial implementation of WASIp3 is available for the 0.3.0-rc-2025-08-15 tag made for the WASIp3 release. Note that this is not production ready yet but is an excellent time to start kicking the tires in preparation for an upcoming officialy WASIp3 0.3.0 release. Users of the CLI can opt-in with -Sp3 -Wcomponent-model-async.

#11406

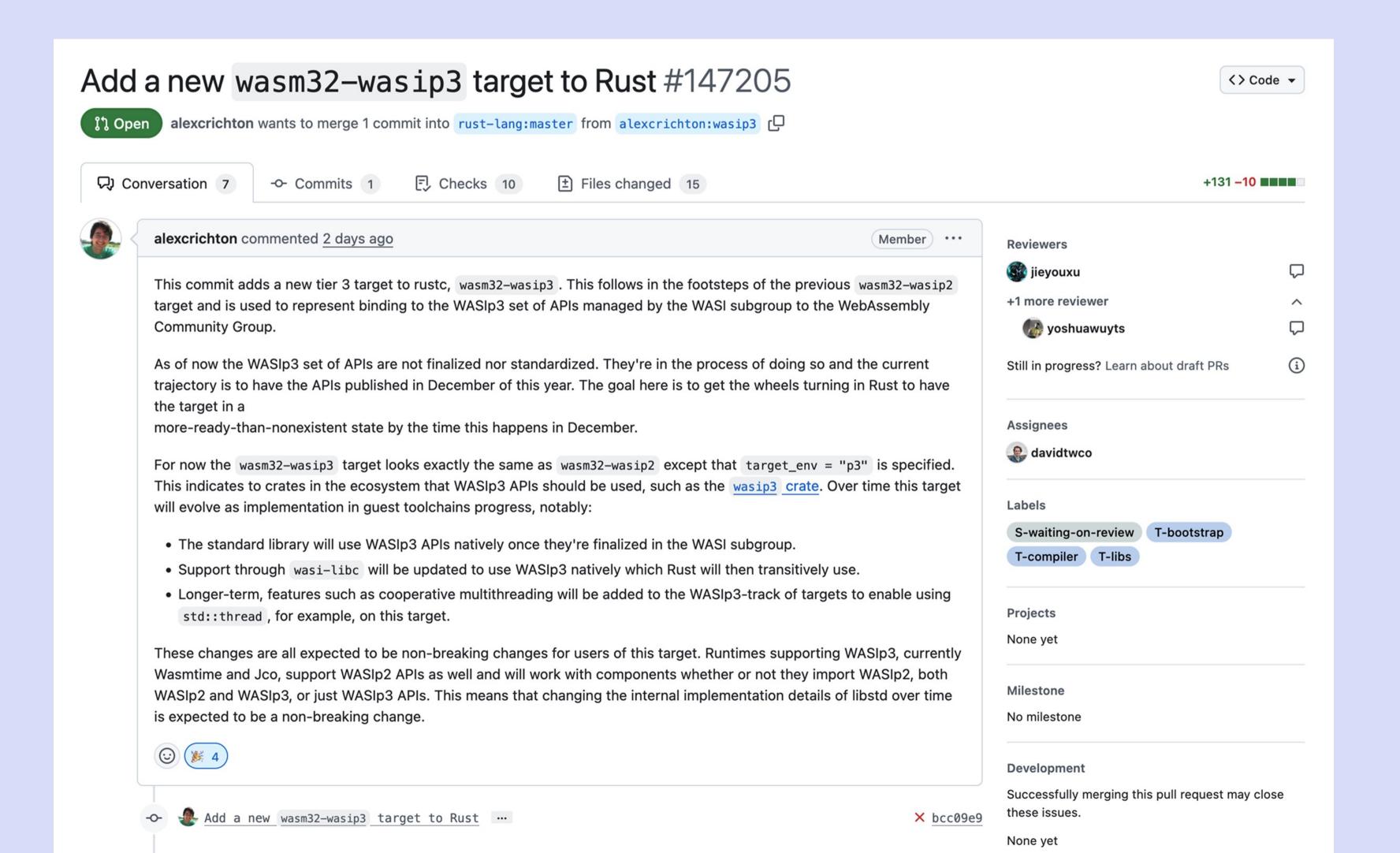
#11423

#11443





Rust Toolchain



Jco

69/79 components passing

```
) test/p3/transpile.js (69 tests | 10 failed) 10162ms
   > Transpile (WASI P3) (69)

✓ transpile async_backpressure_callee.component.wasm 1454ms

✓ transpile async_backpressure_caller.component.wasm 1454ms

     × transpile p3_sockets_tcp_states.component.wasm 1454ms
     x transpile p3_sockets_tcp_sample_application.component.wasm 1454ms
     × transpile p3_sockets_tcp_sockopts.component.wasm 1454ms
     x transpile p3_sockets_tcp_streams.component.wasm 1454ms
     × transpile p3_sockets_tcp_bind.component.wasm 122ms
     × transpile p3_sockets_tcp_connect.component.wasm 225ms

✓ transpile p3_sockets_udp_sockopts.component.wasm 365ms

√ transpile p3_sockets_udp_bind.component.wasm 499ms

√ transpile p3_sockets_udp_connect.component.wasm 641ms

     × transpile p3_sockets_udp_sample_application.component.wasm 742ms
     × transpile p3_sockets_udp_states.component.wasm 849ms

✓ transpile p3_sockets_ip_name_lookup.component.wasm 645ms

✓ transpile p3_filesystem_file_read_write.component.wasm 771ms

✓ transpile async_yield_callee_stackless.component.wasm 733ms

✓ transpile async_yield_callee_synchronous.component.wasm 683ms

✓ transpile async_yield_caller.component.wasm 697ms

√ transpile p3_cli.component.wasm 703ms

✓ transpile async_post_return_caller.component.wasm 715ms

✓ transpile async_borrowing_caller.component.wasm 664ms

✓ transpile async_post_return_callee.component.wasm 665ms

✓ transpile async_borrowing_callee.component.wasm 684ms

✓ transpile async_intertask_communication.component.wasm 665ms

✓ transpile async_transmit_callee.component.wasm 670ms

✓ transpile async_transmit_caller.component.wasm 715ms

     ✓ transpile async_round_trip_stackless.component.wasm 714ms
     / thanspile async hound thin many wait component wasm. 7/1ms
```

Timeline

Timeline

- 2025-11-27 WASI SG Meeting
- 2025-12-04 WASI Release

Fin