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Authors: Michael Wong
Project: Programming Language C++, SG1, WG21
Reply to: Michael Wong <fraggamuffin@gmail.com>,<michael@codeplay.com>

Concurrency TS2 Editor's Report

pre-Varna June 2023 Plenary meeting N4953

https://github.com/fraggamuffin/concurrency_ts2 is the repository for the C++ Technical Specification "Concurrency TS 2".

The draft Technical Specification is found in the src directory and is written in LaTeX. There is a Makefile that can be used to compile the sources, or you can use the latexmk program e.g. latexmk -pdf ts will generate a PDF.

N4953 is the proposed working draft of Concurrency TS Version 2. It contains changes to the Concurrency TS as directed by the committee at the Nov 2022 Kona and Feb 2023 Issaquah plenary meeting, and editorial changes.

FROM KONA: Concurrency Technical Specification polls 4.

- Apply the changes in P2396R1 (Concurrency TS fixes) to the Working Paper for Extensions for C++ for Concurrency, version 2.
- Apply the changes in P1478R8 (Byte-wise atomic memcpy) to the Working Paper for Extensions for C++ for Concurrency, version 2.
- Apply the changes in P1202R5 (Asymmetric Fences) to the Working Paper for Extensions for C++ for Concurrency, version 2.

FROM ISSAQUAH: Concurrency TS v2 polls

- Apply the changes in P0290R4 (synchronized value) to the Concurrency TS v2 working paper.

pre-Oct 2021 virtual Plenary meeting
N4895 is the proposed working draft of Concurrency TS Version 2. It contains changes to the Concurrency TS as directed by the committee at the June 2021 virtual plenary meeting, and editorial changes.
N4895 contains P1121R3 and P1122R4 from the June 2021 virtual plenary.

Technical Changes; None

Notes;

1. split 4.2 Table 2 into 2 tables to make it fit.
2. Macro Value: P2396R1 has it to be 202106 instead of 202108 as from N4895
3. P1478R8: the FT macro is found in P1478R5, but is missing experimental (I think) so I added it into Table 2
4. The Notes in P1478R8 seems to be continuation of the paragraph. I elected to make them into numbered notes. Not sure if that is OK.
5. The stable tag name byteatomicmemcpy could be shorter.
6. P1202R5 is in PDF, so it's very hard to tell what actual font is used, unlike in html so I made some usual guesses.

Acknowledgement;

Thank you to the Editing team of Michael Wong, Paul McKenney, Maged Michael, and Jens Maurer.

This document awaits the feedback from the editing review team Jonathan Wakely, Daniel Krügler, and Bryan St. Amour