

Speculative parallel CSS lexing in Rust

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With Moore's Law no longer providing automatic increases in sequential execution speed, software must be written to take advantage of the increase in CPU cores in order to enjoy increased performance. New libraries and languages have arisen to make this task easier and perform better. The [Rust](#) programming language is designed to make concurrent programming safe and fast. The experimental web browser engine [Servo](#) is written in Rust and aims to bring memory safety and concurrency to the browser engine. One common task performed by web browsers is the tokenization of textual files such as CSS. A Rust implementation of the speculative parallel computation algorithm specified in the [Vaswani](#) paper was created and benchmarked for the CSS files of the [Alexa top 11 sites](#).