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Absztrakt:
The number of Internet connected small embedded devices are increasing rapidly. Traditionally such devices are programmed in some kind of compiled language, for example C or C++. However, the number of embedded developers are small in contrast to JavaScript developers. There are multiple projects which are providing JavaScript engines for such small devices and by using them the developers using JavaScript can also program embedded devices. Nowadays the embedded devices are not single core systems but can have multiple cores. For multi-core CPUs the a way to execute tasks, processes in parallel is a must. On its own JavaScript does not have any thread, task, or parallelism mechanism.

A way to run JavaScript scripts in parallel on embedded systems is presented. The proposed implementation uses an already existing W3C standard as starting point to provide a familiar API for Web developers but it is extended with properties required for embedded devices.

Everyone is welcome.

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