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Extending MSVL with semaphore. (English) Zbl 06622062

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Summary: Modeling, Simulation and Verification Language (MSVL) is a useful formalism for specification and verification of concurrent systems. To make it more practical and easy to use, we extend MSVL with the technique of semaphore. To do so, the mechanism of MSVL function calls is deeply analyzed. Further, the semaphore type is defined. Moreover, operations over semaphore are formalized. Finally, an example is given to illustrate how to use semaphore to solve the mutual exclusion problem.

For the entire collection see [\[Zbl 1342.68014\]](#).

MSC:

68Rxx Discrete mathematics in relation to computer science

Cited in **2** Documents

Keywords:

[temporal logic programming](#); [projection](#); [semaphore](#); [mutual exclusion](#); [concurrency](#)

Software:

[SPIN](#)

Full Text: [DOI](#)

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