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Addendum

Addendum to “Choiceless polynomial time” Ann. Pure Appl. Logic 100 (1999) 141–187 [☆]

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On page 145 of [2], the penultimate paragraph of Section 1 contains the statements that “it appears that the generic machine model [of [1]] is equivalent to ours,” that simulation of generic machines by ours is straightforward, and that “the simulation in the reverse direction, it seems, can be carried out using the . . . constructions of Section 9 of the present paper.” Further work has shown that the “it appears” and “it seems” were crucial. In fact, the reverse simulation requires a strengthening of the generic machine model. Details about this and related issues are presented in [3].

References

- [1] S. Abiteboul, V. Vianu, Generic computation and its complexity, Proc. 23rd ACM Symp. on the Theory of Computing, 1991, pp. 209–219.
- [2] A. Blass, Y. Gurevich, S. Shelah, Choiceless polynomial time, Ann. Pure Appl. Logic 100 (1999) 141–187.
- [3] A. Blass, Y. Gurevich, J. van den Bussche, Abstract state machines and computationally complete query languages, in: Abstract State Machines, Theory and Applications, eds. Y. Gurevich, P.W. Kutter, M. Odersky and L. Thiele, Springer, Lecture Notes in Computer Science 1912 (2000) 22–23 (Also available as Microsoft Research Tech Report MSR-TR-99-95.)

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