

Using Z Specification Refinement Proof

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We may reason about these specifications using the proof techniques of mathematical logic. We may also refine a specification, yielding another description that is closer to executable code. Z is not intended for the description of non-functional properties, such as usability, performance, size, and reliability.

Using Z-specification Refinement and Proof | Logic ...

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The Z notation, then, is a mathematical language with a powerful structuring mechanism. In combination with natural language, it can be used to produce formal specifications. We may reason about these specifications using the proof techniques of mathematical logic.

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Abstract. We introduce a framework for program development and specification refinement in the schema calculus of Z. We provide illustrative examples outlining the major design decisions based on an interpretation of operation schemas as sets of programs.

Program Development and Specification Refinement in the ...

The Z Notation: A reference manual. International Series in Computer Science (2nd ed.). Prentice Hall. Davies, Jim; Woodcock, Jim (1996). Using Z: Specification, Refinement and Proof. International Series in Computer Science. Prentice Hall. ISBN 0-13-948472-8. Bowen, Jonathan (1996). Formal Specification and Documentation using Z: A Case Study ...

Z notation - Wikipedia

Martin C. Henson, Steve Reeves Program development and specification refinement in the schema calculus J.P. Bowen, S. Dunne, A. Galloway, S. King (Eds.), Proceedings of ZB2000: Formal Specification and Development in Z and B , number 1878 in LNCS, Springer (September 2000), pp. 344-362

Refinement and the Z Schema Calculus - ScienceDirect

We explore the differences between Z and the refinement calculus, and explain the reasons for some of those differences. We also examine how a development might use both notations, thus giving a path to code from a Z specification. Some rules for switching between the notations are given, and their use is illustrated in a case study.

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