L-machine: A low-cost personal sequential inference machine

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Abstract: This paper presents the architecture of a new low-cost sequential inference machine, called the L-machine. The machine is part of the UTHL-Prolog system and is specialized in the execution of the so-called L-code into which Prolog programs are initially compiled. The L-machine is described at the ISP level together with the L-Kernel, the run-time Kernel operating system, that ensure compact L-code representation of Prolog programs and a cost/effective hardware implementation of the L-machine with a projected 50 KLIPS performance level.