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Field-Programmable Custom Computing Machines
— A Taxonomy —

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Abstract. The ability for providing a hardware platform which can be customized on a per-application basis under software control has established *Reconfigurable Computing* (*RC*) as a new computing paradigm. A machine employing the *RC* paradigm is referred to as a *Field-Programmable Custom Computing Machine* (FCCM). So far, the FCCMs have been classified according to implementation criteria. For the previous classifications do not reveal the entire meaning of the *RC* paradigm, we propose to classify the FCCMs according to architectural criteria. To analyze the phenomena inside FCCMs, we introduce a formalism based on microcode, in which any custom operation performed by a field-programmed computing facility is executed as a microprogram with two basic stages: SET CONFIGURATION and EXECUTE CUSTOM OPERATION. Based on the SET/EXECUTE formalism, we then propose an architectural-based taxonomy of FCCMs.

1 Introduction

The ability of providing a hardware platform which can be transformed under software control has established *Reconfigurable Computing* (*RC*) [28], [42], [29] as a new computing paradigm in the last ten years. According to this paradigm, the main idea in improving the performance of a computing machine is to define custom computing resources on a per-application basis, and to dynamically configure them onto a *Field-Programmable Gate Array* (FPGA) [11]. As a general view, a computing machine working under the new *RC* paradigm typically includes a *General-Purpose Processor* (GPP) which is augmented with an FPGA. The basic idea is to exploit both the GPP flexibility to achieve medium performance for a large class of applications, and FPGA capability to implement application-specific computations. Such a hybrid is referred to as a *Field-Programmable Custom Computing Machine* (FCCM) [7], [16].

Various FCCMs have been proposed in the last decade. Former attempts in classifying FCCMs used implementation criteria [15], [31], [26], [47], [23], [38]. As the user observes only the architecture of a computing machine [4], the previous classifications do not seize well the implications of the new *RC* paradigm as perceived

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