

Memory Segmentation to Exploit Sleep Mode Operation

Amir H. Farrahi

Gustavo E. T  llez

Majid Sarrafzadeh

Department of Electrical Engineering and Computer Science
Northwestern University
Evanston, IL 60208, USA

Abstract

Sleep mode operation and exploiting it to minimize the average power consumption are of great importance. In this paper, we formulate the memory segmentation/partitioning problem to exploit sleep mode operation and show that the problem is NP-complete. We present polynomial time algorithms for special classes of the problem. Some generalizations of the problem are discussed. Preliminary experiments are conducted to show the effectiveness of the algorithms and applicability of the approach. The experimental data confirm that a careful partitioning allows up to 40% more sleep time which could be exploited to minimize the average power consumption. Directions for further research in this area are presented.

1 Introduction

As a result of advances in VLSI technology and the advent of portable and mobile communication and computing services, the minimization of power consumption in modern circuits is of utmost importance. Due to this importance, there has been considerable shift of attention in the logic and layout synthesis areas [11, 13, 12, 9] and more recently in high-level synthesis [3, 2, 8] from the delay and area minimization issues towards low power design. Recent studies [1] indicate that the clock signal and memory unit in digital computers, each consumes somewhere between 15 to 45 percent of the total power. This suggests good opportunities for savings in power consumption due to these sources. Exploiting sleep mode operation is an attempt to do so.

In general, the term *sleep mode* refers to the mode in which there is no activity in part(s) of the system during certain periods of time. The sleep mode issue can be studied at different fronts, e.g., behavioral level, register-transfer level (RTL), logic level and transistor level.

In this paper we study the partitioning¹ problem to exploit sleep mode operation for power minimization in digital circuits. The general problem can be viewed as partitioning a set of circuit elements such that the savings in power consumption achieved by switching each partition as a whole into sleep mode is maximized. A partition can be switched into sleep mode during time interval $I = (l, r)$ if all the elements in that partition are idle during I . The set of intervals during which an element m is idle, is referred to as the idle set of m . We present a general formulation for this partitioning problem and study its complexity. The problem finds many applications in low power design, e.g. the following (see Figure 1): memory segmentation, partitioning to power-down portions of the design, clock tree construction. We briefly describe how to obtain the information on idle

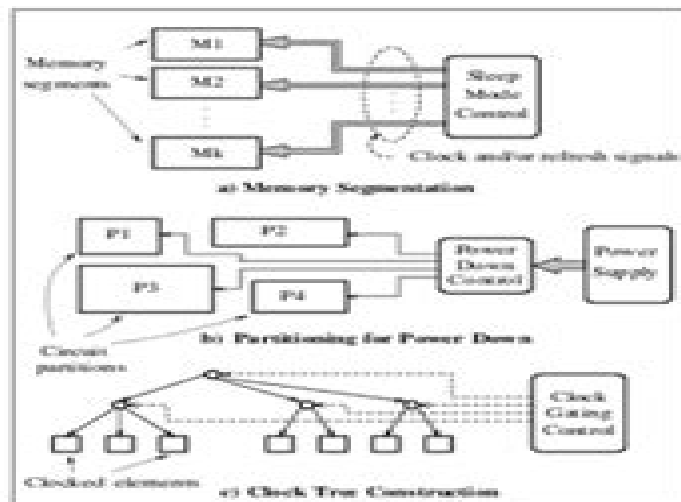


Figure 1: Circuit partitioning to exploit sleep mode

sets, later in the paper. The rest of this paper is organized as follows: Section 2 presents the necessary background. Section 3 briefly describes a methodology to obtain the the idle sets for a set of memory or clocked element in a design (i.e., the data needed for this problem). Section 4 describes the problem formulation. The complexity of the problem is discussed in Section 5. Exact algorithms to solve the general

¹The terms *segmentation* and *partitioning* are used interchangeably in this paper.

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