

Periodically Regular Chordal Rings: Generality, Scalability, and VLSI Layout

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Abstract

Based on the chordal ring structure, we introduce a general framework to describe networks with periodic connection patterns. The periodically regular chordal (PRC) ring is proposed as an alternative for realizing massively parallel processors. A PRC ring consists of identical nodes that are connected cyclically via a finite set of skip links and has the desirable properties of bounded node degree and regular layout. In this paper, we investigate the scalability and layout aspects of PRC rings with fixed period and chord lengths and show that they lead to linearly increasing area and constant wire length without deviating significantly from optimal architectural parameters.

1. Introduction

In order to take advantage of current VLSI technology, constant-degree interconnection networks that allow the construction of massively parallel processors are preferable. In view of the effectiveness of rings in certain systems, we have proposed the Periodically Regular Chordal (PRC) ring for massively parallel processors [8]. A PRC ring consists of identical nodes of degree 4; each node is connected through local ring and a small set of chordal or skip links. Since the chordal links can act as bypass connections in the presence of faults, the routing algorithm continues to work, leading to a simple fault-tolerant routing scheme [6].

When physically constructing a network, the length of some wires may depend on the number of nodes, calling into question the common assumption that a routing step can be completed in constant time [2, 5, 10]. It may be more reasonable to assume that a longer wire will take more time to transmit data. The single-step assumption will force us to adopt the worst case, thus penalizing communications over shorter wires. The issues involving layout area and its corresponding wire length concern the feasibility of building such a network.

In this paper, we consider the physical layout of PRC rings with bounded wire length. In particular, we will focus on the impact of this constraint on the layout area and network

diameter. Our presentation is organized as follows. Section 2 introduces a general framework used to describe networks with periodic connection patterns. Section 3 discusses the connection assignment of the PRC ring and some of its topological properties. Section 4 deals with layout issues. Section 5 contains our conclusions.

2. Periodic Connections

Consider a ring of N nodes; each node is labeled by an index from 0 to $N - 1$. With this cyclic ordering, topological neighbors u and v are connected by a bidirectional link if there exists a chord or a skip s such that $u + s = v$ or $u - s = v$. Here and throughout, it will be understood that all node-index expressions are evaluated modulo N . Because of the modulo N reduction, if a skip $N - s$ is replaced by $-s$, the connectivity remains unchanged; that is, the set of skips is still the same. Thus, without loss of generality, we assume that the chord length or skip distance is in the range: $1 \leq s \leq \lfloor N/2 \rfloor - 1$.

With respect to a pair of neighboring nodes u and v in a chordal ring [1], a link from u to $v = u + s$ corresponds to assigning a forward skip s to u and a backward skip $-s$ to v . If whenever node u is connected to node v by a skip s , node $u + g$ is also connected to node $v + g$ in the same fashion [4], the connection assignment is said to be *periodically regular* with the period g , implying that the connection pattern repeats after every g nodes around the ring.

3. PRC Rings

Unlike the way in which the cube-connected cycles (CCC) is derived from the hypercube, where the period is restricted and skip distances are uniquely determined, the choice of period and skip distances for the PRC rings can be more flexible. In a PRC ring, the N nodes are split into N/g groups of g nodes, where g divides N . A node index $v = ig + j$ identifies the node being at the j th position in the i th group.

With group size g , a sequence $\{s_0, s_{g-1}, \dots, s_n\}$ of skip distances is selected, subject to the conditions $s_0 > s_{g-1} > \dots > s_n$, where s_n is a multiple of g . The later condition is imposed

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1. Understanding the eBook 1996 Symposium On Network Distributed
 - The Rise of Digital Reading 1996 Symposium On Network Distributed
 - Advantages of eBooks Over Traditional Books
2. Identifying 1996 Symposium On Network Distributed
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an 1996 Symposium On Network Distributed
 - User-Friendly Interface
4. Exploring eBook Recommendations from 1996 Symposium On Network Distributed
 - Personalized Recommendations
 - 1996 Symposium On Network Distributed User Reviews and Ratings
 - 1996 Symposium On Network Distributed and Bestseller Lists
5. Accessing 1996 Symposium On Network Distributed Free and Paid eBooks
 - 1996 Symposium On Network Distributed Public Domain eBooks
 - 1996 Symposium On Network Distributed eBook Subscription Services
 - 1996 Symposium On Network Distributed Budget-Friendly Options

6. Navigating 1996 Symposium On Network Distributed eBook Formats
 - ePub, PDF, MOBI, and More
 - 1996 Symposium On Network Distributed Compatibility with Devices
 - 1996 Symposium On Network Distributed Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of 1996 Symposium On Network Distributed
 - Highlighting and Note-Taking 1996 Symposium On Network Distributed
 - Interactive Elements 1996 Symposium On Network Distributed
8. Staying Engaged with 1996 Symposium On Network Distributed
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 1996 Symposium On Network Distributed
9. Balancing eBooks and Physical Books 1996 Symposium On Network Distributed
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection 1996 Symposium On Network Distributed
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine 1996 Symposium On Network Distributed
 - Setting Reading Goals 1996 Symposium On Network Distributed
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of 1996 Symposium On Network Distributed
 - Fact-Checking eBook Content of 1996 Symposium On Network Distributed
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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