HOST/CC AND CC/CC ASYNCHRONOUS CONTROL LINE DRIVER IN THE MIMICS NETWORK

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TABLE OF CONTENTS

THIS BOOK CONTAINS NUMEROUS PAGES WITH DIAGRAMS THAT ARE CROOKED COMPARED TO THE REST OF THE INFORMATION ON THE PAGE.

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LIST OF FIGURES

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CHAPTER 1

Introduction

The MIni - MIcro Computer System (MIMICS) is being developed at Kansas State University as a network of mini and micro-computers for a distributed data base system. This network is designed to use mini and micro-computers in order to provide the maximum amount of computing power at a minimum cost. MIMICS functions can be at geographically dispersed locations or in clustered activities and only the speed at which these functions are accomplished is affected. The computers in the network are not limited to one manufacturer or type, therefore the links between them must be universal. One type of link used between the computers is an asynchronous line. This paper contains a description of the design and implementation of an Asynchronous Control Line Driver (ACLDR) in the MIMICS network for these lines. The driver handles the functions necessary for sending and receiving of control information between computers within a cluster of the network.

1.1 Structure of the Paper

The remainder of this chapter contains an overview of the MIMICS network architecture based on the description in reference WHA76. It also describes the function of an Asynchronous Control Line Driver (ACLDR) in this network. Chapter 2 presents the reasons for using asynchronous lines in MIMICS. In it are described the asynchronous lines in