National Science Foundation
WHERE DISCOVERIES BEGIN

HOME | FUNDING | AWARDS | DISCOVERIES | NEWS | PUBLICATIONS | STATISTICS | ABOUT | FastLane

Awards

Search Awards

Recent Awards

Presidential and Honorary Awards

About Awards

How to Manage Your Award

Grant Policy Manual

Grant General Conditions

Cooperative Agreement Conditions

Special Conditions

Federal Demonstration Partnership

Policy Office Website

Award Abstract #9423886

Automated Synthesis of High Performance Clock Distribution Networks

NSF Org:	CCF Division of Computer and Communication Foundations
Initial Amendment Date:	June 13, 1995
Latest Amendment Date:	June 13, 1995
Award Number:	9423886
Award Instrument:	Standard Grant
Program Manager:	Robert B. Grafton CCF Division of Computer and Communication Foundations CSE Directorate for Computer & Information Science & Engineering
Start Date:	July 1, 1995
Expires:	June 30, 1999 (Estimated)
Awarded Amount to Date:	$195000
Investigator(s):	Eby Friedman friedman@ece.rochester.edu (Principal Investigator)
Sponsor:	University of Rochester 515 HYLAN, RIVER CAMPUSBOX 27014 ROCHESTER, NY 14627 585/275-4031
NSF Program(s):	DES AUTO FOR MICRO & NANO SYS
Field Application(s):	0206000 Telecommunications, 0510403 Engineering & Computer Science, 31 Computer Science & Engineering, 55 Engineering-Electrical
Program Reference Code(s):	HPCC, 9215
Program Element Code(s):	4710

ABSTRACT

This research is on automated synthesis of high speed, highly reliable clock distribution networks. A global clock signal is required in order to control synchronous operations, and it must be distributed to every register at a precise time. A four phase top-down design system for synthesizing buffered clock distribution networks is being investigated. Models of operation which include the effects of process parameter variations on

timing are being developed. Scheduling clock skew is done at the behavioral level of the system. The clock distribution algorithms are being included in an integrated synthesis system.

Please report errors in award information by writing to: awardsearch@nsf.gov.

Print this page

↑ Top

Web Policies and Important Links | Privacy | FOIA | Help | Contact NSF | Contact Web Master | SiteMap

The National Science Foundation, 4201 Wilson Boulevard, Arlington, Virginia 22230, USA
Tel: (703) 292-5111, FIRS: (800) 877-8339 | TDD: (800) 281-8749

Last Updated:
April 2, 2007
Text Only