

{tag}

{/tag}

IJCA Proceedings on International Conference
on Emergent Trends in Computing and Communication

© 2015 by IJCA Journal

ETCC 2015 - Number 1

Year of Publication: 2015

Authors:

Chandra Prakash Gupta

Irfanur Rahman

Rakesh Kumar Ray

{bibtex}etcc4555.bib{/bibtex}

Abstract

In this paper, discussed on dynamic program slicing algorithm which simplifies dependence and discussed the intermediate representation of a dynamic program slicing technique a Concurrent System Dependence Graph (CSDG) and intermediate representation of a distributed Java program in the form of a set of Distributed Program Dependence Graphs (DPDG). The algorithm can run parallel on a network of computers, with each node in the network

contributing to the dynamic slice in a fully distributed fashion. The approaches discussed will not require any trace files to be maintained. Another advantage of this approach is that a slice is available even before a request for a slice is made. Analysis of the complexities of both the algorithm for dynamic program slicing technique and distributed dynamic slicing in Java

ences

Refer

- Computing dynamic slices of concurrent object-oriented programs. Durga P. Mohapatra, Rajib Mall and Rajeev Kumar.
- Distributed dynamic slicing of Java programs. Durga P. Mohapatra, Rajeev Kumar, Rajib Mall, D. S. Kumar and Mayank Bhasin.
- E. Duesterwald, R. Gupta, M. Soffa, Volume 757, 1993, pp 497-511, Distributed slicing and partial re-execution for distributed programs.
- Mund, G. , Mall , R. , Sarkar, S. , 2002. An efficient dynamic program slicing technique. Information and Software Technology 44, 123–132.
- Goswami, D. , Mall, R. , 2002. An efficient method for computing dynamic program slices. Information Processing Letters 81, 111–117.
- Distributed slicing and partial re-execution for distributed programs. E. Duesterwald, R. Gupta, M. Soffa.
- Dynamic Program Slicing. Hiralal Agrawal, Joseph R. Horgan.
- D. P. Mohapatra et al. / The Journal of Systems and Software 79 (2006) 1661–1678 1669.
- G. B. Mund, R. Mall, S. Sarkar, Computation of intraprocedural dynamic program slices, Information and Software Technology 45 (2003) 499–512.

Index Terms

Computer Science

Distributed Computing

Keywords

Program Slicing; Static Slicing; Dynamic Slicing; Debugging; Object-oriented Programs; Threads; Multithreading; Java; Distributed Programming; Synchronization

