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

References

- Distributed dynamic slicing of Java programs. Durga P. Mohapatra, Rajeev Kumar, Rajib Mall, D. S. Kumar and Mayank Bhasin.
- Distributed slicing and partial re-execution for distributed programs. E. Duesterwald, R. Gupta, M. Soffa.

Index Terms

Computer Science Distributed Computing

Keywords

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