Abstract

When user requirements alter in composite services, there is a need to change service composition or add and remove some services. Notwithstanding service level agreement, it is vital for service provider to assess quality properties. Computing execution duration process after any changes in service composition will be time consuming if it is completely performed ab initio. In this paper, a graph theory based approach is proposed, in which non-formal business process execution language is mapped into XBFG graph. then execution duration of primary composite service is computed and the results are stored. Using these results, execution duration of composite service can be computed after changing service composition in a less timely manner.

References

- Moser, O., Rosenberg, F., Dustdar, S., 2008. Non-Intrusive Monitoring and Service
Prediction of Composite Service Execution Duration before Change in Service Composition


Index Terms

Computer Science
Software Engineering
Keywords

changing in service composition  composite service  Extended BPEL Flow Graph
execution duration
critical path