Software Supply Chains (Keynote)

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I. ABSTRACT

It has long been desired to build software systems predominantly through the composition of existing software components. The need for such a production model is growing given the increasing use and reliance on software for almost everything we interact with from toasters to airplanes. For some kinds of systems, we have come a long way towards meeting the production via composition through the use of libraries, frameworks and plugin architectures. But, for other systems that require tight integrations of components produced by different suppliers, we are not yet able to reliably engineer a software supply chain. In this talk, I will outline some achievements in software supply chains and describe some of the challenges that need to be met to productively provide the systems of the future.

II. BIOGRAPHY

Gail C. Murphy is a Professor of Computer Science and Associate Dean (Research and Graduate Studies) in the Faculty of Science at the University of British Columbia. She is also co-founder and Chief Scientist at Tasktop Technologies Inc. Her research interests are in improving the productivity of software developers and knowledge workers by giving them tools to identify, manage and coordinate the information that really matters for their work.