



Dynamic Compilation Everywhere (DCE 2015)

Fourth International Workshop on [Dynamic compilation from SoC to Web Browser via HPC](http://dynamiccompilationeverywhere.wordpress.com/)
<http://dynamiccompilationeverywhere.wordpress.com/>

Held in conjunction with the 10th HiPEAC Conference <http://www.hipeac.net/conference/>
January 19, 2015, Amsterdam, The Netherlands

Following the three previous issues of the DCE workshop in Paris, Berlin, Vienna and the 2013 HiPEAC thematic session on dynamic compilation in Paris, we are pleased to invite you to submit a paper to the fourth issue of DCE.

Topics : Dynamic compilation is not anymore a technique restricted to applications executing on general purpose processors, but even in embedded systems uses of dynamic compilation approaches have become increasingly viable. Portability and support for languages with isolation concerns are the main drivers of this development, where native code is only generated at run-time, but other drivers have been emerging as well, triggered by the dynamic nature of today's increasingly virtualized computing environments. The aim of the workshop is to review the current research landscape, present new and emerging dynamic compilation approaches and their applications, and to scout for new developments in this exciting field.

Keywords : Performance, power constraints, time constraints, thermal constraints, improved reliability, security, IP protection, cross-layer optimization, virtualization, high performance computing, JAVA, Javascript, DBT, emulation, Just-In-Time (JIT) compilation, runtime execution environment, dynamic optimization, etc.

Objectives :

- **Gather multiple communities** : where dynamic compilation is in use
- **Show the wide usage range** : pick a keyword in the list & show how you use dynamic compilation in this context

Articles will be selected based on :

Scientific interest but also tutorial nature : we want to reach nearby communities and create interest in dynamic compilation

Dynamic compilation usage : we want to cover the largest possible spectrum of dynamic compilation and optimization uses

Articles Format and Publication

- 6 to 10 pages using the 7x10 ACM Submission format ([LaTeX style on the web site](#)).
- Paper should be uploaded on [the easychair web site](#)
- The conference does not include printed proceedings, however, with author approval, **papers will appear on the USB key of the conference**; proceedings will be **published electronically by the ACM ICPS with an ISBN number**.

Important dates :

Paper due: Nov. 10 2014; **Acceptance:** Nov 24, 2014 **Camera ready:** Dec 8, 2014

Organizers :

Henri-Pierre CHARLES
Dorit NUZMAN
Bjoern FRANKE
Andreas KRALL

CEA-LIST, France
IBM, Israel
Edinburg Univ.
Wien TU

Henri-Pierre.Charles@cea.fr
Dorit@il.ibm.com
bfranke@inf.ed.ac.uk
andi@complang.tuwien.ac.at