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**AutoTuning and Adaptivity approach
for Energy efficient eXascale HPC
systems**

**Deliverable D6.7: ANTAREX Online
Project Book (Draft)**

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<p>Executive Summary: This deliverables reports the public link to the ANTAREX Online Project Book written by the project partners in Task 6.1 “Dissemination” with the main focus of a large dissemination of the main techniques and tools developed in the project. Link to the ANTAREX Online Project Book: http://antarex-project.eu/dissemination#book</p> <p>The ANTAREX Online Project Book is organized in the following Chapters:</p> <ul style="list-style-type: none"> • Chapter 1 - Introduction <i>João Bispo, Pedro Pinto, João MP Cardoso, Hamid Arabnejad, Jorge Barbosa, Gianluca Palermo, Davide Gadioli, Emanuele Vitali, Cristina Silvano, Stefano Cherubin, Giovanni Agosta, Loïc Besnard, Francesco Beneventi, Antonio Libri, Andrea Bartolini, Luca Benini, Daniele Cesarini</i> • Chapter 2 - DSL and Source to Source Compilation: the Clava+LARA approach <i>João Bispo, Pedro Pinto, João MP Cardoso</i> • Chapter 3 - The OpenMP-based Auto Parallelization AutoPar-Clava Approach <i>Hamid Arabnejad, João Bispo, Jorge Barbosa, João MP Cardoso</i> • Chapter 4 - Split Compilation: the libVersioningCompiler Approach <i>Stefano Cherubin and Giovanni Agosta</i> • Chapter 5 - LARA Strategies for Data Type Conversions <i>Loïc Besnard</i> • Chapter 6 - Memoization Approach <i>Loïc Besnard</i> • Chapter 7 - LARA Strategies for Loop Splitting <i>Loïc Besnard</i> • Chapter 8 - Runtime Autotuning: the mArgot approach <i>Gianluca Palermo, Davide Gadioli, Emanuele Vitali, Cristina Silvano</i> • Chapter 9 - ExaMon: Exascale Holistic Monitoring <i>Francesco Beneventi, Antonio Libri, Andrea Bartolini and Luca Benini</i> • Chapter 10 - Energy-Efficiency Run-time: the COUNTDOWN Approach <i>Daniele Cesarini, Andrea Bartolini and Luca Benini</i> 	<p>Date: December 17th, 2018</p>
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