Porting Linux Benchmarks to macOS

General information		
	Advisor	Dr. Redha Gouicem
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Type	Master / Bachelor / Guided Research	
Description	In the context of a project related to x86 binary emulation on ARM hosts, we wish to compare our system with the state-of-the-art Rosetta 2 binary translator from Apple. Since it is only usable on Apple machines with Apple M1 processors running macOS, we need to port benchmarks to this platform. In this thesis, your work will be to port popular benchmark suites developed for Linux, e.g., PARSEC [1], to macOS. Additionally, you may need to add support for ARM platforms.	
Keywords	Binary translation, emulation, macOS, x86, ARM	
Goals	**Concrete outcomes** 1. Port the PARSEC benchmark suite to macOS 2. Port other benchmarks to macOS	
Prerequisites	**Compulsory** ● C/C++ **Preferred** ● None	

References	
	1. https://parsec.cs.princeton.edu/

Application process	Please send an email to the advisor including the following:

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- Email subject: "Thesis application (DSE)"
- CV
- A copy of your transcript(s)