



A Methodology for Profiling and Partitioning Stream Programs on Many-core Architectures

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Abstract

Maximizing the data throughput is a very common implementation objective for several streaming applications. Such task is particularly challenging for implementations based on many-core and multi-core target platforms because, in general, it implies tackling several NP-complete combinatorial problems. Moreover, an efficient design space exploration requires an accurate evaluation on the basis of dataflow program execution profiling. The focus of the paper is on the methodology challenges for obtaining accurate profiling measures. Experimental results validate a many-core platform built by an array of Transport Triggered Architecture processors for exploring the partitioning search space based on the execution trace analysis.

Keywords: TTA, execution trace graph, dataflow, partitioning, profiling

1 Introduction

A natural method to handle applications characterized by high computational complexity is to implement parallel programs on high performance machines. Traditional approaches with concurrency evolving directly from sequential programs present several drawbacks. For instance, there is no guarantee that the resulting programs would end in exactly the same way as the starting sequential program. The threads behaviour cannot be properly profiled nor simulated by appropriate test vectors and the risk of unpredicted race conditions is always present. Furthermore, threads depend on the platform making any changes a troublesome interference in the design [11]. Programming paradigm used by the dataflow computational model presents an interesting alternative. Apart from some attractive features such as platform independence and explicit exposition of parallelism it provides several design space analysis opportunities [9].

In spite of many features that make dataflow programs efficient and analyzable, the designer usually has to deal with the problem of transferring those features onto a specific architecture. At this stage several narrowing factors occur that are relative to the number of available units, constraints on power consumptions or architectural obstacles to track the application execution. There are several ways of dataflow design evaluation among which the throughput is particularly important, as it contributes to the improvement of other design factors [8]. One method of

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web jan 10 2018 eb1a recommendation letter a reference letter sometimes called also recommendation letter testimonial letter or letter of support is one of the key parts of every eb1a petition these letters help to convince uscis officer that you satisfy one or more of the eb1a requirements

eb1a recommendation letters your ultimate handbook - Sep 17 2023

web oct 17 2023 eb1a recommendation letters are usually 1 to 4 pages long it s better to have shorter high quality letters with strong arguments than long ones with vague statements who can write an eb1a recommendation letter for you choosing the right recommenders is critical

what should be included in a recommendation letter in eb1 a eb1 - Aug 16 2023

web dec 31 2011 a good recommendation letter should point out the high level of unique expertise the applicant possesses if it is a recommendation letter from an employer or professor of the applicant it should specify the work the foreign national is responsible for and the requirements of the job

office of international services university of pittsburgh - May 01 2022

web eb 1b recommendation letter template for experts to the expert thank you for agreeing to write this letter on behalf of our scholar the eb1b is utilized for scholars with a minimum of three years experience in the field and who have fulfilled at least two of the criteria listed below

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web jan 10 2018 one reference note sometimes rang also recommendation letter testimonial letter or buchstaben regarding support is one of the key parts of jede eb1a petition these letters help to convince uscis officer

sharing my niw and eb1a diy petition letter with prompts for - Aug 04 2022

web may 21 2023 all exhibits and recommendation letters are included as part of this evidence for the eb1a petition accessible here you ll need too sign up and then can download freely i have claimed to meet five criteria though i m unsure which of these were accepted original contributions as demonstrated by my citations awards i ve received

sample letters in support of eb 1 outstanding professors and scholars - Nov 07 2022

web oct 22 2015 sample letters in support of eb 1 outstanding professors and scholars beltran brito casamayor o1 visa sample 1 departmental support letter to be submitted on ksu department letterhead thursday october 22 2015 uscis attn aos 2501 s state highway 121 business suite 400 lewisville tx 75067

o 1 and eb 1a the matter of recommendation letters - Apr 12 2023

web jul 15 2022 the recommendation letters used to support an o 1 visa and an eb 1a green card application are expert opinions advisory opinions and letters of confirmation below you will find a detailed description of each one of them our general suggestions and guidelines