Lab 1: Experimental setup and tools

par4111

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1 Introduction

2 Node architecture and memory

	boada-1 to boada-4	boada-5	boada-6 to boada-8
Number of sockets per node	2	2	2
Number of cores per socket	6	6	8
Number of threads per core	2	2	1
L1-I cache size (per-core)	32 KB	32 KB	32 KB
L1-D cache size (per core)	32 KB	32 KB	32 KB
L2 cache size (per-core)	256 KB	256 KB	256 KB
Last-level cache size (per-socket)	12 MB	15 MB	20 MB
Main memory size (per socket)	12 GB	31 GB	16 GB
Main memory size (per node)	23 GB	63 GB	31 GB

3 Sequential and parallel executions

3.1 Strong scalability

3.2 Weak scalability

4 Conclusions