DADSTORM:A simple, fault-tolerant and real-time stream processing system

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Abstract

DADSTORM is a simple but reliable stream processing system. It's mainly used by Instituto Superior Tecnico Students.

Its main features are: the 3 possible semantics it can have, fault-tolerant to f+1 faults, FALAR AQUI DA SINCRONIA This system is composed by a Puppet Master, Process Creation Service, Operators with their Replicas and Tuples. Our project is able to process hundreds of tuples per minute.

1 Introduction

Nowadays streaming more and more information is added to the web and we want to process it as fast as possible as well as to get the desired information. In order to get that information in a reliable way we developed DADSTORM.