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The Ability To Provide Exactly-once Semantics (Storm, Samza [7], Pulsar [26]), Impacting Correctness. Others Simply Lack The Temporal Primitives Necessary For Windowing2 (Tigon [11]), Or Provide Windowing Semantics That Are Limited To Tuple- Or Processing-time-based Windows (Spark Streami Apr 6th, 2024

SCHEDULING OF DATAFLOW MODELS WITHIN THE ...

2.2. Scheduling Of Similar Systems CAL Models Are Too General To Be Scheduled Efficiently; Even Straightforward Scheduling Is Intractable. Each CAL Actor Is Represented As An Extended Finite State Machine (EFSM) That Contains Variables And Guard Conditions That Enable Jan 4th, 2024

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Code Peaks At 3.9 GFLOPS/sec On An AMD Opteron 6274 (although With Half The Cores) And 8.35 GFLOPS/sec On An Intel Xeon E5-2650. (See Table II In Section 5 For Complete Description Of Machines Used). This Program Is Memory Bound But Contains Significant Data Reuse Potential, Thus Jan 2th, 2024

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Flo W-insensitiv E Analyses Record Global Facts That Hold For All Statemen Ts In A Program [8] But Ma Y Lose Precision Since They Do Not Con-sider The Order Of Statemen T Execution. Flo W-sensitiv E Anal-yses Record Facts On A P Er-statemen T Basis [1], But Ma Ylose Precision B Ecause They (traditionally) Assume That All Paths In A Con Trol-o Apr 4th, 2024

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ficiently. Suppose TreeAggregate Listens To The Map Ver-tices In A Map-reduce Application, To Obtain The Information On The Locations And Sizes Of Map Vertex Outputs. Using The Information, TreeAggregate Groups Map Vertices, Creates Intermediate Aggregation Vertices, And Then Connects Each Map Vertex Group To An Aggregation Vertex. Second, Repar- Apr 5th, 2024

Program Execution, LabVIEW Uses Dataflow Programming, ...

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