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## **Computer Architecture: Dataflow (Part I)**

Computer," CACM 1985. ! Arvind And Nikhil, "Executing A Program On The MIT Tagged-Token Dataflow Architecture," IEEE TC 1990. ! Patt Et Al., "HPS, A New Microarchitecture: Rationale And Introduction," MICRO 1985. ! Lee And Hurson,

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The DataFlow RTU Is A Radio Telemetry System That Operates On Either UHF-FM (450 To 470 MHz With A Transmitter Power Of 2 Watts Or 5 Watts) Or VHF-FM (150 To 165 MHz, 136 To 151 MHz And 160 To 174 MHz With A Transmitter Power Of 5 Watts). An RTU System Operating In The UHF-FM Band At 2 Watt Mar 5th, 2024

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The Actor Model. First, Every Actor Has A Single Mailbox, Which Is A FIFO Queue Storing Both Data Messages And Con-trol Messages. (The Actor Model Does Not Support Priority Messages Natively.) Large-scale Data Processing Implies That Data Messages Sent To An Actor Can Be Significantly More Mar 2th, 2024

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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 Mar 4th, 2024

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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 Jun 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-statement T Basis [1], But Ma Ylose Precision B Ecause They (traditionally) Assume That All

Paths In A Control Jun 1th, 2024

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efficiently. Suppose TreeAggregate Listens To The Map Vertices 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, Repair- Jun 2th, 2024

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