

a

- AMALTHEA model (version 1.2.0)
  - Software
    - Tasks (4)
      - ObjectDetection
        - Activity Graph
        - PedestrianDetection
          - AngryBirds
          - Maps
    - Hardware
    - Operating Systems
      - Operating System
        - Scheduler1
        - Scheduler2
      - Operating System
    - Stimuli
      - Deadline1
      - Timer1
    - Constraints
      - ProcessSepReq
      - ProcessPairReq
      - Req TimingReq -- Task ObjectDetection
        - ResponseTime >= 10 ms
      - Req LoadReq -- Task AngryBirds
    - Mapping
      - Allocation: Scheduler Scheduler1 -- Processing Units ( Core1 )
      - Allocation: Scheduler Scheduler2 -- Processing Units ( Core2 )
      - Allocation: Scheduler Scheduler3 -- Processing Units ( Core3 )
      - Allocation: Scheduler Scheduler4 -- Processing Units ( Core4 )
      - Allocation: Scheduler Scheduler1 -- Task ObjectDetection
        - Parameters (Scheduling)
      - Allocation: Scheduler Scheduler3 -- Task AngryBirds
      - Allocation: Scheduler Scheduler4 -- Task Maps
      - Allocation: Scheduler Scheduler2 -- Task PedestrianDetection

b

