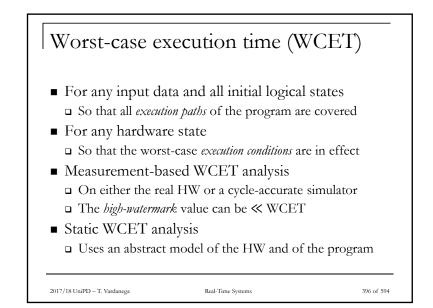
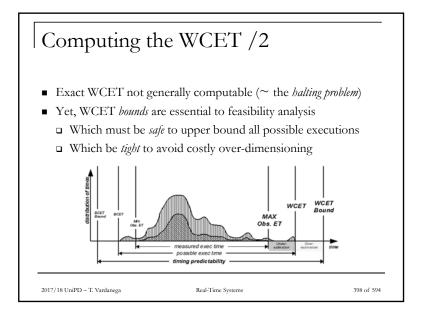
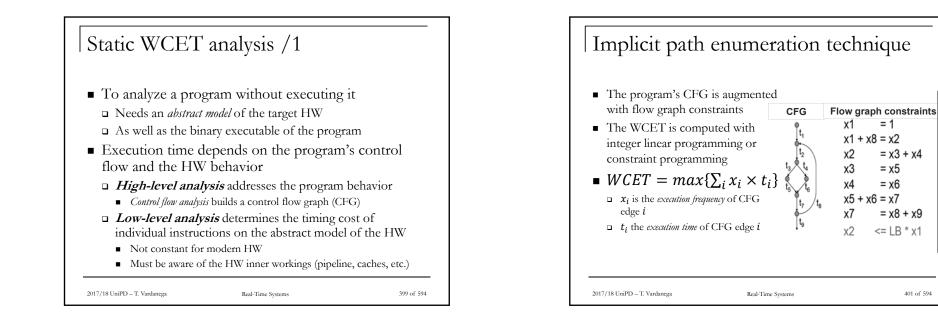
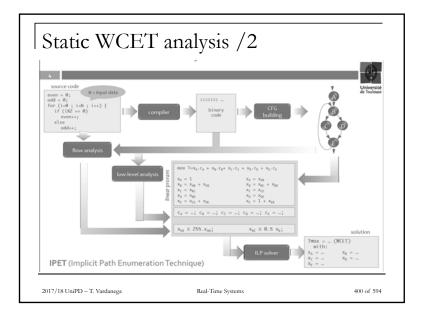
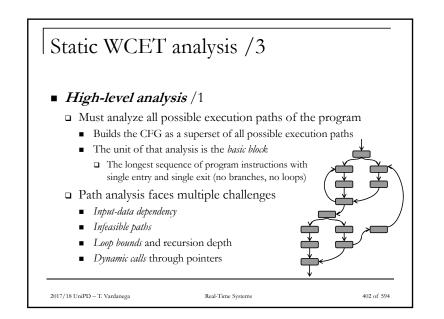
## Computing the WCET /1 6.b WCET analysis ■ Why not measure the WCET of a task on its real HW? Worst-case input 每⊑> WCET? Worst-case HW state Triggering the WCET by test is very difficult □ Supplying input data that cover all possible program executions is Credits to Enrico Mezzetti, PhD intractable in practice (enrico.mezzetti@bsc.es) □ Worst-case initial state on modern HW is very difficult to determine Complex pipelines (out-of-order execution) Caches Branch predictors and speculative execution 2017/18 UniPD - T. Vardanega 397 of 594 Real-Time Systems











x1

x2

x3

х4

х7

х2

= 1

= x5

= x6

= x3 + x4

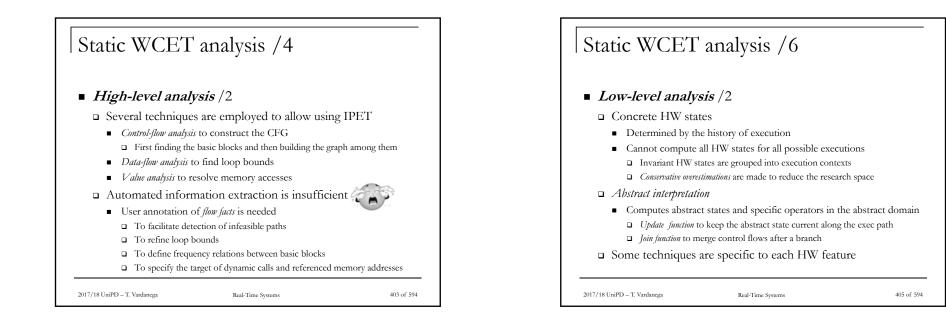
= x8 + x9

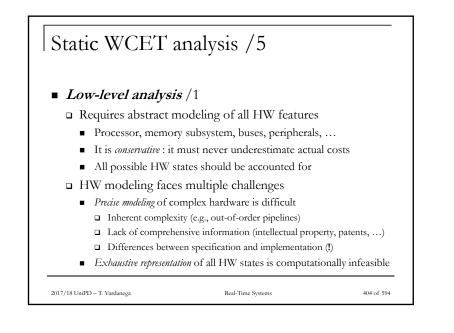
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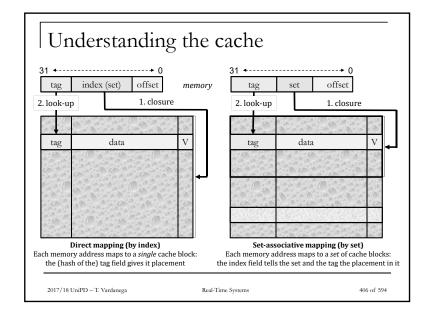
<= LB \* x1

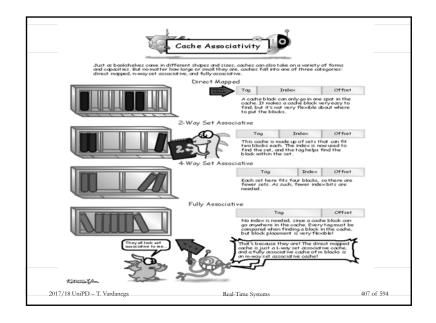
x1 + x8 = x2

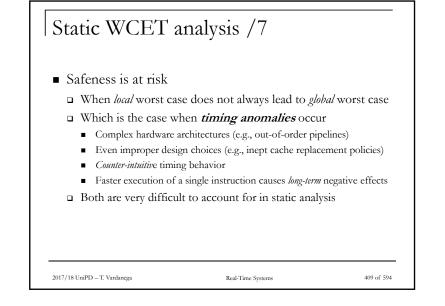
x5 + x6 = x7

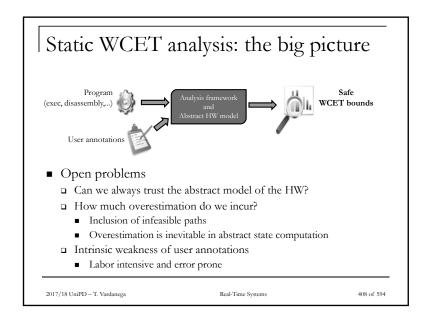


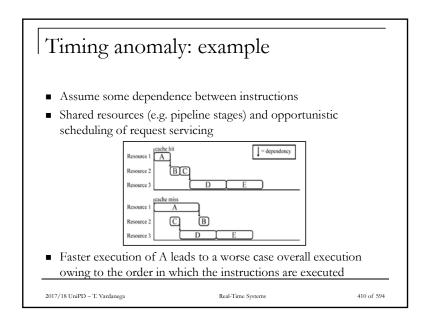












Path

info

WCET estimates

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