Improve the pipeline by adding branch prediction. Assume the branch is predicted correctly, and diagram below. The assume that the branch is correct, then it have no stalls mour paperne 7 8 9 10 11 12 13 14 15 16 17 18 19 22 21 22 100 Stoll M WB lw St1, 0(Sa0) IFRFE beq \$t1, \$0, targ1 48 ER CB. addi SaO, SaO, 4 Mho IF X REE M 168 add St1, St1, St3 IFIX XXXX 1/154 lw St1, 0(St1) add \$v0, \$v0, \$t1 depends! X = Stalls because rented will from c. Further improve the pipeline by adding register forwarding. Diagram below. Still have branch prediction LW now comis Cycle 10 11 12 13 14 15 16 17 22 21 22 lw \$t1, 0(\$a0) MmB beq St1, S0, targ1 Published addi Sao, Sao, 4 m add St1, St1, St3 day for M WA MNB lw St1, 0(St1) IF day Has 61 11. 43 add Sv0, Sv0, St1 Stall of depend 10/5/2015 one found in exeluse spoops