



## Computer Architecture II – WS 05/06

(due: Monday, 21.11.2005)

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### Exercise 1: (LOSS)

(15 + 10 points)

In the lecture we introduced the two predicates  $LOSS_a$  and  $LOSS_b$ .

Let

$$\hat{\eta}(x) = (s, \hat{e}, \hat{f})$$

$$\eta(x) = (s, e, f)$$

To be proven:

$$LOSS_b(x) \leftrightarrow LOSS_b([x]_{p-\hat{e}})$$

$$LOSS_a(x) \leftrightarrow LOSS_a([x]_{p-\hat{e}})$$

### Exercise 2: (TINY & LOSS)

(15 + 10 points)

In the lecture we argued that the following two implications hold:

$$LOSS_a(x) \rightarrow LOSS_b(x)$$

$$TINY_a(x) \rightarrow TINY_b(x)$$

To be proven or disproven:

$$LOSS_a(x) \leftarrow LOSS_b(x)$$

$$TINY_a(x) \leftarrow TINY_b(x)$$