Mandatory Assignment 1

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This assignment is a part of the Advance Mobile and Distributed Systems Seminar.

1 Exercise 1, p. 12

$$SYSTEM_1 \stackrel{\text{def}}{=} (v\, talk_i, switch_i, give_i, alert_i : i = 1, 2)$$
$$(CAR(talk_1, switch_1)|Base_1|IDLEBASE_2|CENTRE_1) \tag{1}$$

$$IDLEBASE(t, s, g, a) \stackrel{\text{def}}{=} a.BASE(t, s, g, a) \tag{2}$$

$$BASE_i \stackrel{\text{def}}{=} BASE(talk_i, switch_i, give_i, alert_i) \quad (i = 1, 2) \tag{3}$$

$$CENTRE_i \stackrel{\text{def}}{=} \overline{give_1}talk_2switch_2.alert2.CENTRE_2$$
$$\overline{give_2}talk_1switch_1.alert1.CENTRE_1 \tag{4}$$

2 Exercise 2, p. 13

SYSTEM$_1$ =