Let $a$, $b$, and $c$ be integer variables. Simplify

$$a := a + b. \quad (b := a - b \parallel a := a - b)$$

§ In the concurrent composition, $b$ is a variable of the left process, and $a$ is a variable of the right process. Let's give $c$ to the left process.

$$a := a + b. \quad (b := a - b \parallel a := a - b)$$

$$\equiv a := a + b. \quad (b' = a - b \land c' = c \parallel a' = a - b)$$

$$\equiv a := a + b. \quad (b' = a - b \land c' = c \land a' = a - b)$$

$$\equiv b' = a + b - b \land c' = c \land a' = a + b - b$$

$$\equiv b' = a \land c' = c \land a' = a$$

$$\equiv b := a$$