ID_C0

b c

axm1false$b \in \mathbb{N}$ axm2false$c \in \mathbb{N}_1$

MACHINEID_M0

ID_M0 ID_C0

a k

inv1false$a \in \mathbb{N}$ inv2false$k \in \mathbb{N}$ inv3false$b = a * c + k$

kProve termination – we need c > 0 (just c : \nat won't work)

false false act1$a, k := 0, b$true

Progress $\widehat{=}$ falseconvergent false grd1false$k \geq c$true true

act1$a, k := a + 1, k - c$true

Finish $\widehat{=}$ falseordinary false grd1false$k < c$true true