

**section** *fibsec* **parents** *circus\_toolkit*

**channel** *out* :  $\mathbb{N}$

**process** *Fib*  $\hat{=}$  **begin**

**state** *FibState* ==  $[x, y : \mathbb{N}]$

*InitFibState* ==  $[FibState' \mid x' = y' = 1]$

*InitFib*  $\hat{=}$  *out* !1  $\longrightarrow$  *out* !1  $\longrightarrow$  *InitFibState*

*OutFibState* ==  $[\Delta FibState; next! : \mathbb{N} \mid next! = y' = x + y \wedge x' = y]$

*OutFib*  $\hat{=}$   $\mu X \bullet (\mathbf{var} \ next : \mathbb{N} \bullet OutFibState ; out!next \longrightarrow X) \bullet InitFib ; OutFib$

**end**