$A == [ns : \mathbb{F}\,\mathbb{N}_1]$
$AInit == [A' \mid ns' = \varnothing]$
$New == [\Delta A;\ n? : \mathbb{N}_1 \mid ns' = ns \cup \{n?\}]$
$MSF == [\Xi A;\ m! : \mathbb{N}_1 \mid ns \neq \varnothing;\ m! = max\ ns]$

Store the two max seen so far as they are observed.

$C5 == [c, d : \mathbb{N} \mid c \geq d]$
$C5Init == [C5' \mid c' = 0]$
$C5_N ew == [\Delta C5;\ n? : \mathbb{N}_1 \mid c' = \textbf{if } c < n? \textbf{ then } n? \textbf{ else } c;\ d' = \textbf{if } d < n? \textbf{ then } n? \textbf{ else } d]$
$C5_M SF == [\Xi C5;\ m! : \mathbb{N} \mid m! = c]$

LI5

$A;\ C5$

$c = 0 \Rightarrow ns = \varnothing$
$c \neq 0 \Rightarrow (ns \neq \varnothing \land c = max\ ns)$

C5MSF2

$\Xi C5$
$ma!, mb! : \mathbb{N}$

$ma! = c$
$mb! = d$