

ocmon^{13,42}

OCMon

$\equiv_{\text{def}} \{g:\text{AbMon} \mid$
 $\text{Linorder}(|g|;x,y.\uparrow(x \leq_b y))$
 $\& \text{Cancel}(|g|;|g|;*)$
 $\& (\forall z:|g|. \text{monot}(|g|;x,y.\uparrow(x \leq_b y);\lambda w.z * w))\}$

clarification:

OCMon $\{i\}$

$\equiv_{\text{def}} \{g:\text{AbMon}\{i\} \mid$
 $\text{Linorder}(|g|;x,y.\uparrow(x (\leq_{bg}) y))$
 $\& \text{Cancel}(|g|;|g|;*g)$
 $\& (\forall z:|g|. \text{monot}(|g|;x,y.\uparrow(x (\leq_{bg}) y);\lambda w.z (*g) w))\}$