Results

December 12, 2011

Properties

	plain	simple ind	approx	fixpoint ind	struct ind
$prop_{add_{comm}}$ +! x y = +! y x					
$prop_{add_{ident_{left}}}$ x = +! zero x					$\checkmark_\infty$
$prop_{add_{ident_{right}}}$ x = +! x zero		$\checkmark_\infty$	$\checkmark_\infty$		$\checkmark_\infty$
$prop_{add_{inv_{left}}}$ +! (neg x) x = zero					$\checkmark_{\text{fin}}$
$prop_{add_{inv_{right}}}$ +! x (neg x) = zero					$\checkmark_{\text{fin}}$
$prop_{mul_{comm}}$ *! x y = *! y x					
$prop_{mul_{ident_{left}}}$ x = *! one x					$\checkmark_\infty$
$prop_{mul_{ident_{right}}}$ x = *! x one					$\checkmark_\infty$
$prop_{neg_{involutive}}$ x = neg (neg x)					$\checkmark_{\text{fin}}$
$prop_{sign_{assoc}}$ *% s (*% t u) = *% (*% s t) u		$\checkmark_\infty$	$\checkmark_\infty$		$\checkmark_\infty$
$prop_{sign_{ident_{left}}}$ *% s (Pos) = s		$\checkmark_\infty$	$\checkmark_\infty$		$\checkmark_\infty$
$prop_{sign_{ident_{right}}}$ *% (Pos) s = s		$\checkmark_\infty$	$\checkmark_\infty$		$\checkmark_\infty$
$prop_{sign_{opposite_{involutive}}}$ opposite (opposite s) = s		$\checkmark_\infty$	$\checkmark_\infty$		$\checkmark_\infty$
$prop_{sign_{triple}}$ *% s (*% s s) = s		$\checkmark_\infty$	$\checkmark_\infty$		$\checkmark_\infty$

Summary

	total	plain	simple ind	approx	fixpoint ind	struct ind
$\checkmark_\infty$	9/14		6/9	6/9		9/9
$\checkmark_{\text{fin}}$	3/14					3/3