

MONOID ACTION LAW 2

$$\text{act } (m1 \lt \!> m2) = \text{act } m1 \cdot \text{act } m2$$

PROOF

$\text{transformD } (t1 \lt \!> t2)$

$\text{map } (\text{act } (t1 \lt \!> t2))$

$\text{map } (\text{act } t1 \cdot \text{act } t2)$

$\text{map } (\text{act } t1) \cdot \text{map } (\text{act } t2)$

MONOID ACTION LAW 2

$$\text{act } (m1 \langle \rangle m2) = \text{act } m1 \cdot \text{act } m2$$

PROOF

`transformD (t1 <> t2)`

`map (act (t1 <> t2))`

`map (act t1 . act t2)`

`map (act t1) . map (act t2)`

`transformD t1 . transformD t2`