

$$\underbrace{\text{reduce}(+,0) \circ \text{map}(abs)}_{4.e}$$

$$\text{reduce}(+,0) \circ \underbrace{\text{part-reduce}(+,0)}_{4.e} \circ \text{map}(abs)$$

$$\text{reduce}(+,0) \circ \text{outerJoin}^n \circ \text{map}(\text{part-reduce}(+,0)) \circ \text{outerSplit}^n \circ \underbrace{\text{map}(abs)}_{4.d}$$

$$\text{reduce}(+,0) \circ \text{outerJoin}^n \circ \text{map}(\text{part-reduce}(+,0)) \circ \underbrace{\text{outerSplit}^n \circ \text{outerJoin}^n}_{4.g} \circ \text{map}(\text{map}(abs)) \circ \text{outerSplit}^n$$

$$\text{reduce}(+,0) \circ \text{outerJoin}^n \circ \underbrace{\text{map}(\text{part-reduce}(+,0)) \circ \text{map}(\text{map}(abs))}_{4.h} \circ \text{outerSplit}^n$$

$$\text{reduce}(+,0) \circ \text{outerJoin}^n \circ \underbrace{\text{map}(\text{part-reduce}(+,0))}_{4.e\&5.b} \circ \underbrace{\text{map}(abs)}_{5.a} \circ \text{outerSplit}^n$$

$$\text{reduce}(+,0) \circ \text{outerJoin}^n \circ \underbrace{\text{map}(\text{reduce-seq}(+,0) \circ \text{map-seq}(abs))}_{4.h} \circ \text{outerSplit}^n$$

$$\text{reduce}(+,0) \circ \text{outerJoin}^n \circ \underbrace{\text{map}(\text{reduce-seq}(\lambda acc, x_{el}: acc + abs(x_{el}), 0))}_{4.h} \circ \text{outerSplit}^n$$