size	
Transpose	-

mode

Direction

$|(S_a, S_s) = (l_a \times S_n, l_s \times S_n), \text{ where } S_n \text{ is size of } transpose unit, } l_s = \left| \frac{S_s}{S_m} \right|, \text{ and } l_a = \left| \frac{S_a}{S_n} \right|$

 (S_a, S_s) , where S_a is Array size, and S_s is

Normal: without transpose

 $Transpose : AOS \rightarrow ASTA / SOA$ Reversion: $ASTA / SOA \rightarrow AOS$

 $host \subseteq device$

Structure size

SparseConvert: COO → ELL