Parallel Sorting Algorithms

– Odd–Even Transposition Sort

Odd-even transposition sort of eight values on the one-dimensional mesh processor array model.

Indices: 0 1 2 3 4 5 6 7
Initial values: G H F D E C B A
After odd-even exchange: G F <H D <E B <C A
After even-odd exchange: F <G D <H B <E A <C
After odd-even exchange: F D <G B <H A <E C
After even-odd exchange: D <F B <G A <H C <E
After odd-even exchange: D B <F A <G C <H E
After even-odd exchange: B <D A <F C <G E <H
After odd-even exchange: B A <D C <F E <G H
After even-odd exchange: A <B C <D E <F G <H