

**P-SCAN-2-AUX**( $x, y, i, j$ )

1   **if**  $i == j$

2        $y[i] = x[i]$

3   **else**  $k = \lfloor (i + j) / 2 \rfloor$

4       **spawn** **P-SCAN-2-AUX**( $x, y, i, k$ )

5       **P-SCAN-2-AUX**( $x, y, k + 1, j$ )

6       **sync**

7       **parallel for**  $l = k + 1$  **to**  $j$

8            $y[l] = y[k] \otimes y[l]$