

P-MAT-VEC-RECURSIVE(A, x, y, n, i, i')

```
1  if  $i == i'$                                 // just one iteration to do?
2      for  $j = 1$  to  $n$                         // mimic P-MAT-VEC serial loop
3           $y_i = y_i + a_{ij}x_j$ 
4  else  $mid = \lfloor (i + i')/2 \rfloor$           // parallel divide-and-conquer
5      spawn P-MAT-VEC-RECURSIVE( $A, x, y, n, i, mid$ )
6      P-MAT-VEC-RECURSIVE( $A, x, y, n, mid + 1, i'$ )
7  sync
```