real grid[n+1,n+1], newgrid[n+1,n+1];
bool converged = false;
process Grid[i = 1 to n, j = 1 to n] {
    while (not converged) {
        newgrid[i,j] = (grid[i-1,j] + grid[i+1,j] +
                        grid[i,j-1] + grid[i,j+1]) / 4;
        check for convergence as described in the text;
        barrier(i);
        grid[i,j] = newgrid[i,j];
        barrier(i);
    }
}

Figure 3.19  Grid computation for solving Laplace’s equation.

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