do iters = 1, MAXITERS
    new(2:n-1, 2:n-1) =
        (grid(1:n-2, 2:n-1) + grid(3:n, 2:n-1) +
         grid(2:n-1, 1:n-2) + grid(2:n-1, 3:n)) / 4
    grid = new
end do

grid(2:n-1, 2:n-1) =
    (grid(1:n-2, 2:n-1) + grid(3:n, 2:n-1) +
     grid(2:n-1, 1:n-2) + grid(2:n-1, 3:n)) / 4

!HPF$ PROCESSORS pr(8)
!HPF$ ALIGN position (: ) WITH force (: )
!HPF$ DISTRIBUTE position(CYCLIC) ONTO pr

FORALL (i=2:n-1, j=2:n-1)
    new(i, j) = (grid(i-1, j) + grid(i+1, j) +
                 grid(i, j-1) + grid(i, j+1)) / 4

!HPF$ INDEPENDENT
    do i = 1, n
        A(Index(i)) = B(i)
    end

Examples of High-Performance Fortran (HPF) constructs.

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