

```

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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