```
e = ending loop bound
    2
              //affine array expressions
                                                            n = loop stride
    3
              A1[a1*i+b1] = A2[a2*i+b2] + 3;
                                                             B = block size
                                                             N = number of locales
                                                             $ = current locale identifier
        for k in 0...((lcm(B,n)/n)-1) {
(b)
              forall i in (s+k*n)..e by lcm(B,n) {
                   //affine array expressions
    3
                   A1[a1*i+b1] = A2[a2*i+b2] + 3;
    4
    5
              }
         for k in 0...((lcm(B,n)/n)-1) {
     2
            for j in 0..N-1 {
      3
               if(f(s+k*n+lcm(B,n)*j)/B \mod N == $) {
(c)
                  //fetch elements from affine array expressions
                  //that are not owning expressions of the loop
      5
      6
                  var buf1 = GET(A2[(s+k*n+lcm(B,n)*j)+b2..e+b2 by N*lcm(B,n)*a2]);
                  var h = 0;
     8
                  forall i in (s+k*n+lcm(B,n)*j)..e by lcm(B,n)*N {
     9
                      //affine array expressions
     10
                     A1[a1*i+b1] = buf1[h] + 3;
     11
                     h++;
     12
     13
                  //write buffer elements back if written to during loop
     14
                  if(buf1 is modified)
     15
                     SET(A2[(s+k*n+lcm(B,n)*j)+b2..e+b2 by N*lcm(B,n)*a2]) = buf1;
     16 }
```

(a)

forall i in s..e by n {

(d)

s = starting loop bound