

```
1 void saxpy_array_notation(  
2     int n,      // the number of elements in the vectors  
3     float a,    // scale factor  
4     float x[],  // the input vector  
5     float y[]   // the output vector and offset  
6 ) {  
7     y[0:n] = a * x[0:n] + y[0:n];  
8 }
```

LISTING 4.4

SAXPY in Cilk Plus using `cilk_for` and array notation for explicit vectorization.