Jonathan Teo CS 261 ItW7

Q1.

mizer businited

-0

3 (1750: (2000) 4 101) g 194 30,059 - 194) + mong 7001 1001

 $rp: (\frac{5}{20} \cdot 3) = .075$

mp: (20 - 100 · 2) = 12 200 - 20 = mps = mps = mps

LIGHT TOPP - JEST 188 = ATOBO + ATOBO

CP1: 1 + CBICITATE Where Cine cycle instructions

(O (+ atob) Co movey de of blubbles

CB = 1p+(p+mp = 0.335+ +b) = Smus + stab

10(+ stob) = Emme + stob

CP) = WILLEY VINSONS - 10335. # 1 1.335

data to some = (dutate)

(U(+ stab) = 0 min2 + stab

By Bildrynd Sijosi) sot

SUM & AND ENGLOS + EDD STORM = BINDS

Sam I william I was

The same is a straight the same of the mark

4 F.

```
U.S. Optimized Veston
        Void inner-product (vecptru, vec-ptr v, donn-t *dect) [
            long is long length = wee-length win
            data _t + udata = get _vec_stac (4);
            data t + Sum = (data t) 0;
            data_t + sum2 = (data_t)0;
            data _ + * Sum 4 = (data _ +) 0;
                  4 sum 5 00 (date - +) 0)
            data_t + sum6 = (data_t)0;
             long length 2 = length-si
          for (1=0; it length 2; i+=6) {
                 Sum = sum + udata [i] * vdata[i];
                Sum 2 = Udata [i+1] + Vdata [i+1];
                Sum 3 = udata [i 2] * Vdata [i+2];
                Sum 4 = udata Cit3] & vdata Cit3];
                Sum5 = udata Ci+40 + vdata Ci+47;
                Sum 6 = udata (i+5] * vdata Ci+5];
          for ( i i c length jitt) {
                  8 um = Sum + udata [i] * vdata [i]
             dest = sum +sum 2+sum 3+sum 4 + sum 6 + sum 6)
  for ideal nonhazards, we have it such that CPE will be approximately
  (5+ i)/(i+1) Where i is the number of dements after the first.
  For non-ideal hazars, we may hit cycle delays as was as
 running through the second for loop, which can increase CPE.
Thus, for increasing i, we can get to the approximate
CDE OF 1.06
```