```c
#include <stdio.h>
#include <emmintrin.h>
#include <sys/time.h>

unsigned long tt()
{
  struct timeval tv;
  gettimeofday(&tv,NULL);
  return 1000000 * tv.tv_sec + tv.tv_usec;
}

#define TESTSIZE 1600000
char x[TESTSIZE];
char y[TESTSIZE];
char z[TESTSIZE];

int main() {

  unsigned int t11,t12,t21,t22;

  for(int i=0;i<TESTSIZE;i++)
  {
    x[i]=2*i%20;
    y[i]=i%30;
  }


  t11 = tt();
  for(int i=0;i<TESTSIZE;i++)
  {
    z[i]=x[i]+y[i];
  }
  t12 = tt();


  __m128i *xx=(__m128i *)x;
  __m128i *yy=(__m128i *)y;
  __m128i *zz=(__m128i *)z;

  t21 = tt();
  for(int i=0;i<TESTSIZE/16;i++)
  {
    zz[i] = _mm_add_epi8 (xx[i],yy[i]);
  }
  t22 = tt();


/*
  for(int i=0;i<TESTSIZE;i++)
  {
    printf("%d+%d=%d\n",x[i],y[i],z[i]);
  }
*/
  printf("without sse2 %u, with sse2 %u\n",t12-t11,t22-t21);


    return 0;
}
```