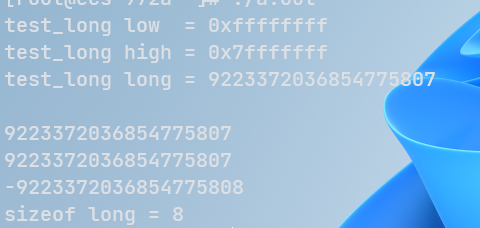
C\C++双精度浮点型转整型时数据溢出x86与鲲鹏的差异



鲲鹏 编译双精度 test.c 并运行



x86编译双精度test并运行

分析代码可知，x86环境下但long型数据发生溢出时数值会转化为最小的long数值，而鲲鹏则会保持最大的long数值。

查阅资料可知是由于两种CPU架构不同导致的



#include <stdio.h>

#include <limits.h>

int main(){

long test\_long = (long)0x7ffffffffffffff;

printf("test\_long low = 0x%x\n", test\_long);

printf("test\_long high = 0x%x\n", test\_long>>32);

printf("test\_long long = %ld\n", test\_long);

long test\_bb;

test\_bb = (long) (test\_long \*(double) 10);

printf("\n");

printf("%ld",test\_bb);

printf("\n");

printf("%ld", LONG\_MAX);

printf("\n");

printf("%ld", LONG\_MIN);

printf("\n");

printf("sizeof long = %ld\n", sizeof(long));

return 0;

}