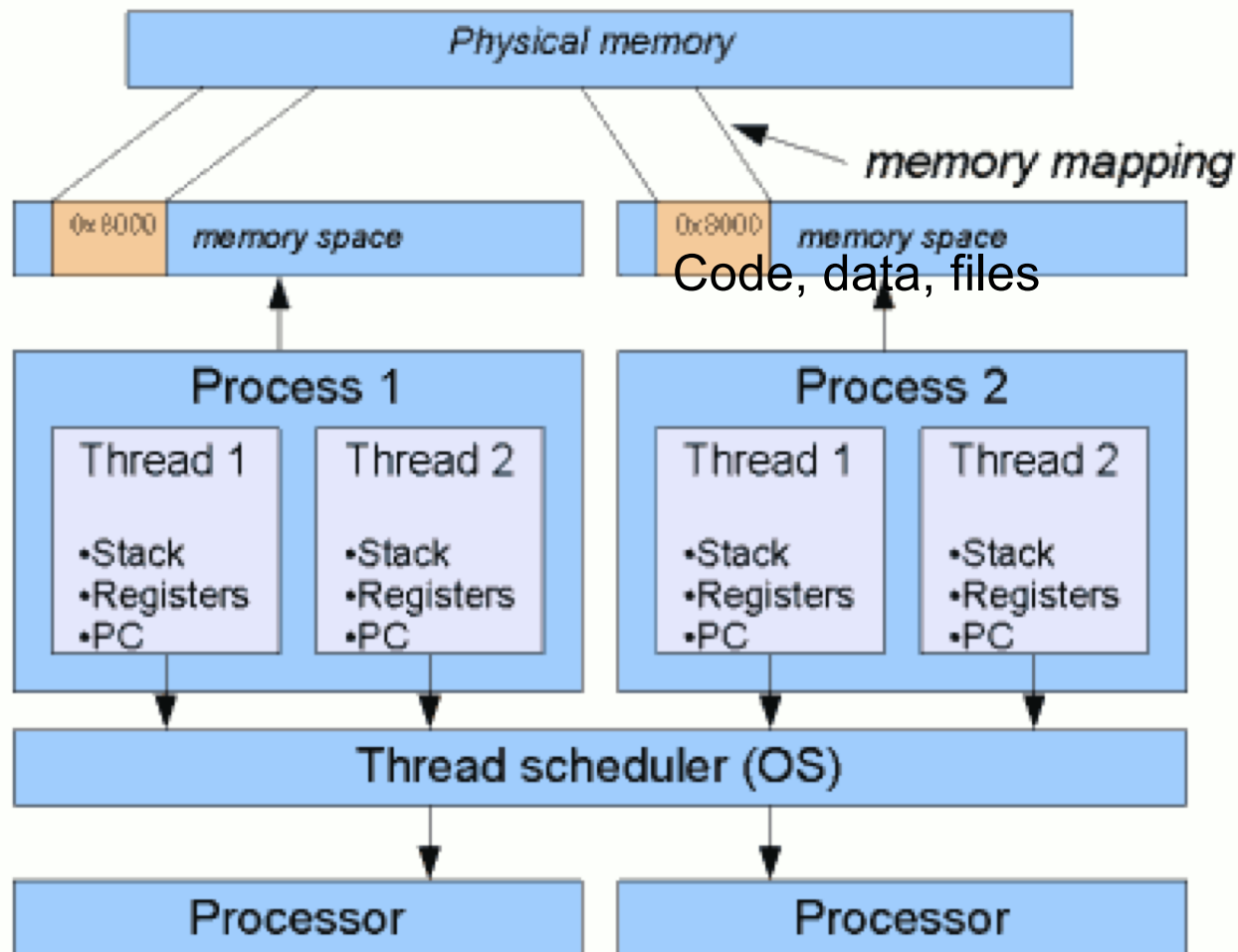


Thread vs Process



Data-races

< > data-race.c No Selection

```
1 #include <stdio.h>
2 #include <math.h>
3 #include <omp.h>
4
5 int main(){
6     double result={0};
7
8     #pragma omp parallel for shared(result)
9     for(int i=0; i<1000000;i++) {
10         result+=sin(i);
11     }
12     printf("%f",result);
13 }
```

vmovsd (%r12), %xmm1

L4:

```
vxorpd %xmm0, %xmm0, %xmm0
vcvttsi2sd %ebx, %xmm0, %xmm0
vmovsd %xmm1, 8(%rsp)
addl $1, %ebx
call _sin ; return value in %xmm0
vmovsd 8(%rsp), %xmm1 ; result in %xmm1
cmpl %ebx, %ebp
vaddsd %xmm0, %xmm1, %xmm1
jne L4
```

vmovsd %xmm1, (%r12)