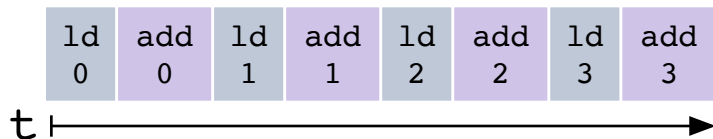
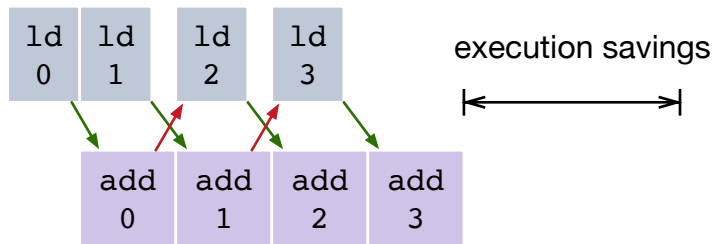


No Task-Pipelining



Task-Pipelining



- read after write (RAW) dependence
- write after read (WAR) dependence

Lowered JIT Runtime Calls

```
VTALoadBuffer2D(ld0)
VTAPushALUOp(add0)
VTALoadBuffer2D(ld1)
VTAPushALUOp(mm1)
...
```

```
VTALoadBuffer2D(ld0)
VTADepPush(load, compute)
VTALoadBuffer2D(ld1)
VTADepPush(load, compute)
VTADepPop(load, compute)
VTAPushALUOp(mm0)
VTADepPush(compute, load)
VTADepPop(load, compute)
VTAPushALUOp(mm1)
VTADepPush(compute, load)
VTADepPop(compute, load)
VTALoadBuffer2D(ld2)
...
```